The Metropolitan Water District of Southern California

The mission of the Metropolitan Water District of Southern California is to provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

Board of Directors - Final - Revised 3

March 11, 2025

12:00 PM

Tuesday, March 11, 2025 Meeting Schedule	
08:30 a.m. FAAME	
10:15 a.m. LEGAL	
11:30 a.m. Break	
12:00 p.m. BOD	

Agenda

Agendas, live streaming, meeting schedules, and other board materials are available here: https://mwdh2o.legistar.com/Calendar.aspx. Written public comments received by 5:00 p.m. the business days before the meeting is scheduled will be posted under the Submitted Items and Responses tab available here: https://mwdh2o.legistar.com/Legislation.aspx.

If you have technical difficulties with the live streaming page, a listen-only phone line is available at 1-877-853-5257; enter meeting ID: 891 1613 4145.

Members of the public may present their comments to the Board on matters within their jurisdiction as listed on the agenda via teleconference. To participate via teleconference 1-833-548-0276 and enter meeting ID: 815 2066 4276 or to join by computer <u>click here.</u>

MWD Headquarters Building • 700 N. Alameda Street • Los Angeles, CA 90012

1. Call to Order

- a. Invocation: Director Brenda Dennstedt, Western Municipal Water District of Riverside County
- b. Pledge of Allegiance: Director Jacque McMillan, Calleguas Municipal Water District
- 2. Roll Call
- 3. Determination of a Quorum
- 4. Opportunity for members of the public to address the Board on matters within the Board's jurisdiction. (As required by Gov. Code §54954.3(a))
- 5. OTHER MATTERS AND REPORTS

Board of Directors

Α.	Report on Directors' Events Attended at Metropolitan's Expense	<u>21-4296</u>
	Attachments: 03112025 BOD 5A Report	
В.	Chair's Monthly Activity Report	<u>21-4297</u>
	Attachments: 03112025 BOD 5B Report	
C.	General Manager's summary of activities	<u>21-4298</u>
	Attachments: 03112025 BOD 5C Report	
	03112025 BOD 5C Presentation	
D.	General Counsel's summary of activities	<u>21-4299</u>
	Attachments: 03112025 BOD 5D Report	
E.	General Auditor's summary of activities	<u>21-4300</u>
	Attachments: 03112025 BOD 5E Report	
F.	Ethics Officer's summary of activities	<u>21-4301</u>
	Attachments: 03112025 BOD 5F Report	
G.	Presentation of Commendation to Eduardo Rosado, LuxBus Company	<u>21-4378</u>
Н.	Presentation of 35-year Service Pin to Director John Morris, City of San Marino	<u>21-4317</u>
	** CONSENT CALENDAR ITEMS ACTION **	
CON	SENT CALENDAR OTHER ITEMS - ACTION	

6. ALENDAR OTHER ITEMS - ACTION

Approval of the Minutes of the Special Joint Meeting of the Α. **21-4302** Executive Committee and Board of Directors for January 21, 23, and 29, 2025

Attachments: 03112025 BOD 6A (01212025 and 01232025) Minutes 03112025 BOD 6A (01292025) Minutes

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 B. Approve Resolution confirming Director Jacque McMillan for <u>21-4387</u> Association of California Water Agencies Region 8 Board Member. [ADDED ITEM 3/6/2025]

Attachments: 03112025 BOD 6B ACWA Resolution 9371 Resolution.pdf

- **C.** Nomination and Election of nonofficer members of the Executive 21-4315 Committee for two-year term effective March 11, 2025
- D. Approve Committee Assignments

7. CONSENT CALENDAR ITEMS - ACTION

7-1 Award a \$407,740.66 procurement contract to Ireland Inc. (dba Core-Rosion Products) to furnish two sodium hypochlorite tanks for the Copper Basin Reservoir;the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA (EOT)

<u>Attachments</u>: 03112025 EOT 7-1 B-L 03102025 EOT 7-1 Presentation

 7-2 Award procurement contracts in the amount of \$321,575 to Integrated 8a Solutions, Inc. for two 24-inch knife gate valves and in the amount of \$2,151,947 to Bailey Valve for two 24-inch sleeve valves for the Hollywood Tunnel pressure control structure; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA (EOT)

Attachments: 03112025 EOT 7-2 B-L 03102025 EOT 7-2 Presentation

7-3 Authorize an increase of \$1.0 million to a professional services agreement with Grid Subject Matter Experts, LLC for a new not-to-exceed total amount of \$1.245 million for electric transmission planning and National Electric Reliability Corporation related electric reliability compliance services; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. [DEFERRED on 3/4/2025] (EOT)

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7-4 Authorize the General Manager to enter into agreements with City of San Buenaventura and Calleguas Municipal Water District for wheeling and emergency delivery of State Water Project water; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA (OWA)

Attachments: 03112025 OWA 7-4 B-L 03102025 OWA 7-4 Presentation

- 7-5 Authorize the General Manager to terminate six inactive <u>21-4308</u> Conjunctive Use Program agreements; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. [DEFERRED on 3/3/2025] (OWA)
- 7-6 Authorize the General Manager to enter into a Stormwater for Recharge Pilot Program agreement with the City of Anaheim with a maximum amount up to \$980,000 for the State College Stormwater Tank Project; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA (OWA)

<u>Attachments</u>: 03112025 OWA 7-6 B-L 03102025 OWA 7-6 Presentation

7-7 Authorize the General Manager to forbear water conserved by two Coachella Valley Water District projects, thus allowing the conserved water to be added to Lake Mead under U.S. Bureau of Reclamation's Lower Colorado River Basin System Conservation and Efficiency Program; the General Manager has determined the proposed action is exempt or otherwise not subject to CEQA (OWA)

Attachments: 03112025 OWA 7-7 B-L 03102025 OWA 7-7 Presentation

7-8 Review and consider the County of Riverside negative declaration and Authorize the General Manager to execute a new ground license agreement with Verizon Wireless for up to 25 years for a new telecommunication site on Metropolitan's fee-owned property in the unincorporated community of Winchester, identified as County of Riverside Assessor Parcel Number 964-030-005 (FAAME)

Attachments: 03112025 FAAME 7-8 B-L 03112025 FAAME 7-8 Presentation

Board of Directors

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7-9 Review and consider the County of Riverside Final Environmental Impact Report, adopt the Lead Agency's findings and authorize the General Manager to execute a thirty-year license agreement with Intersect Power, LLC for renewable energy infrastructure purposes on Metropolitan fee-owned property in the County of Riverside and identified as Assessor Parcel Numbers 808-023-022 and 808-023-030 (FAAME)

Attachments: 03112025 FAAME 7-9 B-L 03112025 FAAME 7-9 Presentation

- 7-10 Approve amendments to the Metropolitan Water District Administrative Code to conform surplus water provisions to current law and practice, update the list of active District funds, and clarify employee benefits for unrepresented employees; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. [ITEM DEFERRED on 2/26/2025] (LC)
- 7-11 Authorize an increase of \$100,000, to an amount not-to-exceed \$600,000, for a contract for legal services with Hanson Bridgett LLP to provide legal advice on deferred compensation plans, other employee benefits, taxes, and CalPERS matters; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA (LC)

<u>Attachments</u>: 03112025 LC 7-11 B-L 03112025 LC 7-11 Presentation

7-12 Approve amendments to the Metropolitan Water District Administrative Code to modify the structure and duties of various committees and the roles of specified board and committee officers; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA (LC)

Attachments: 03112025 LC 7-12 B-L 03112025 LC 7-12 Presentation

** END OF CONSENT CALENDAR ITEMS **

8. OTHER BOARD ITEMS - ACTION

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21-4316

8-1 Authorize an increase of the maximum amount payable under the contract with Richardson & Company LLP for auditing services related to State Water Project charges from \$5,125,000 to an amount not to exceed \$8,900,000 and extend the term by three years to March 31, 2028; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA (OWA)

Attachments: 03112025 OWA 8-1 B-L 03102025 OWA 8-1 Presentation

8-2 Approve New General Manager Employment Agreement and authorize retroactive payment to January 29, 2025; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. [UPDATED SUBJECT 3/3/2025]

Attachments: 03112025 BOD 8-2 B-L

8-3 Report on litigation in Ryan Tiegs v. Metropolitan Water District of Southern California, Riverside County Superior Court Case No. CVPS2306176; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA [Conference with legal counsel – existing litigation; to be heard in closed session pursuant to Gov. Code Section 54956.9(d)(1)]. [WITHDRAWN on 3/5/2025] (LC)

9. BOARD INFORMATION ITEMS

9-1 Report on Conservation Program

Attachments: 03112025 OWA 9-1 B-L

10. OTHER MATTERS - COMMITTEE REPORTS

a. Human Resources Activities (OPE) <u>21-4384</u>

Attachments: 03112025 BOD 10a Human Resources Activities

b. Safety, Security, and Protection Activities (OPE) <u>21-4383</u>

Attachments: 03112025 BOD 10b Safety, Security, and Protection Activities

11. FOLLOW-UP ITEMS

NONE

12. FUTURE AGENDA ITEMS

13. ADJOURNMENT

NOTE: Each agenda item with a committee designation will be considered and a recommendation may be made by one or more committees prior to consideration and final action by the full Board of Directors. The committee designation appears in parenthesis at the end of the description of the agenda item, e.g. (EOT). Board agendas may be obtained on Metropolitan's Web site https://mwdh2o.legistar.com/Calendar.aspx

Writings relating to open session agenda items distributed to Directors less than 72 hours prior to a regular meeting are available for public inspection at Metropolitan's Headquarters Building and on Metropolitan's Web site https://mwdh2o.legistar.com/Calendar.aspx.

Requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Executive Secretary in advance of the meeting to ensure availability of the requested service or accommodation.

March 11, 2025 Board Meeting

Item 5A



Metropolitan Water District of Southern California Summary of Events Attended by Directors at Metropolitan's Expense in February 2025

Date(s)	Location	Meeting Hosted by:	Participating Director(s)
Feb. 20	Sacramento, CA	Delta Conveyance Design and Construction Authority (DCA)	Miguel Luna
Feb. 26-28	Palm Springs, CA	Urban Water Institute 2025 Spring Conference	Fred Jung



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Report

• Chair of the Board Adán Ortega Jr.'s Monthly Activity Report – February 2025

Summary

This report highlights my activities as Chair of the Board during the month of February 2025 on matters relating to The Metropolitan Water District of Southern California's business.

Monthly Activities

Key Activities

- Attended the Los Angeles Area Chamber of Commerce's inaugural event for the installation of its 2025 officers. The event also recognized Terry Feit, Managing Partner at Deloitte, with the Distinguished Leader Award and Lendistry, a company specializing in small business loans, with the Corporate Leadership Award. This annual event brought together over 1,000 of the region's top leaders to celebrate excellence in business and civic leadership while formally installing the Chamber's incoming Board Chair.
- I provided opening remarks at Metropolitan's Water Quality Laboratory Naming Dedication event in honor of Dr. Michael McGuire in La Verne, CA. I joined Metropolitan Officials, along with Dr. McGuire and his friends and family, who celebrated his achievements and accomplishments as a driving force behind the construction of the current lab and helped establish Metropolitan as a global leader in the field of water quality. Naming this Water Quality Lab in Dr. McGuire's honor is not only a recognition of his personal achievements but also a testament to the deep and enduring impact he has had on Metropolitan's mission and the communities we serve. Board Vice Chairs Michael Camacho, Juan Garza and Board Members Karl Seckel, Stephen Faessel, and Dennis Erdman also attended the event.





- I recorded a tribute interview honoring Director Gloria Cordero, who will receive the Spirit of St. Mary Award on April 1, 2025. The Spirit of St. Mary Award is presented to those who live Humankindnessdaily they make the lives of other people better. The video will be shown at an upcoming banquet in her honor, which Dignity Health St. Mary Medical Center will hold.
- I participated in the Sustainable Water Investment Summit (SWIS), where I served as a panelist on the session titled: *Securing Our Water Future: Public Investment in Infrastructure and Supply*. SWIS gathers a diverse group of stakeholders, including investors, officials, industry leaders, farmers, environmentalists, and utility professionals, to discuss critical water resource strategies. During the event, I engaged in a Q&A on topics such as balancing infrastructure, reliability and affordability, private sector involvement in supporting public agencies, climate change impacts, service costs, and water quality, to name a few.



Regularly Scheduled/Ongoing Meetings

I continue to meet regularly to review the Board's organizational issues and coordinate activities with the Board Vice Chairs, the General Manager, and his executive team.



General Manager's Monthly Report



Activities for the Month of February 2025



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Message from the General Manager

Through strategic investments, forward planning, and climate adaptation, Metropolitan and our member agencies are proactively addressing many water reliability challenges. At the same time, we are navigating uncertainties brought on by changes in the new federal administration.

Our staff in California and Washington, D.C. are working to assess the impact of recent federal directives, advocating to maintain our vital federal funding and ensure the stability of our plans and programs.

For example, we recently signed funding agreements with the US Bureau of Reclamation to create long-term savings among Colorado River water users and are working with our partners to be ready to implement those conservation programs. Metropolitan has also signed on to letters to administration officials warning that planned reductions to Reclamation staffing levels would compromise vital work on water infrastructure projects, disrupt operations that serve urban and agricultural users, and create risks here in California and throughout the West.

As we work to maintain funding and minimize negative impacts on our investments and projects, we remain focused on building the partnerships necessary to improve our sustainability.

Southern California is in a transformational period. We know that the investments we make today will shape our water security for decades, driving economic growth, creating jobs, and reinforcing business confidence. We remain committed to working in a bipartisan, proactive approach to foster a stable and collaborative environment that advances our initiatives.

Deven Upadhyay General Manager





The General Manager's Strategic Priorities guide actions in key areas of change and opportunity that will strengthen Metropolitan and its ability to fulfill its mission. Review the General Manager's <u>Business Plan for FY24-25</u> and the <u>"SMART Tracker"</u> dashboard of specific actions that advance the Strategic Priorities.



Empower the workforce and promote diversity, equity, and inclusion



Goal Dashboard

8 Outcomes in progress and on target.

Build a safe, inclusive, and accountable workplace where all employees feel valued, respected, and able to meaningfully contribute to decisions about their work to fulfill Metropolitan's Mission.

Metropolitan is constructing perimeter fencing at 68 houses, three playground areas, and shade structures at the playground areas in Hinds, Eagle Mountain, and Iron Mountain. This project supports the Desert Housing and Recreation Interim Action Plan. The construction contract was approved by the Board in February and is expected to be executed by May 2025.

The General Auditor was featured in the February meeting of Group Managers, to review the Auditor's process and to clarify deadlines. The discussion is part of coordination between the General Manager and General Auditor to align the review and input processes to ensure timely completion of audit reporting and responses.

Prepare and support the workforce by expanding training and skill development and updating strategies to recruit and retain diverse talent, to meet the evolving needs and expectations of the workplace.

Metropolitan's workforce development team met with EDD offices in four counties of the six-county region and participated in 11 events. We established a member agency workforce development working group to discuss challenges, best practices, and lessons learned and to inform a future-needs assessment, and we are planning for a regional workforce development summit, scheduled for May 1.

General Manager's Monthly Report

Supporting staff development within Metropolitan, we completed the third of six modules in the Career Launch Program. Module 3 included presentations on Operations Planning and Water Resources Management. Module 4 will include tours of the Weymouth Water Treatment Plant, Water Quality Lab, and other facilities on the LaVerne campus.





Goal Dashboard

5 Outcomes in process. 1 Outcome behind schedule.

Develop revenue and business model options that support the needs of the member agencies as well as Metropolitan's financial sustainability and climate adaptation needs.

Business Model discussions advanced in February, including meetings of the Ad Hoc Working Group and its three sub-working groups. Meaningful progress has been made toward developing broad agreement on recommendations that will be brought to the LTRPP Subcommittee on March 26. Recommendations are expected in three categories of readiness: refinements with broadly agreedupon elements; those with conceptual agreements on parameters for refinement; and those for which a more comprehensive analysis is needed to shape a final proposal and develop points of agreement.

Identify and secure programmatic cost savings, organizational efficiencies and external funding.

"Bucket 2" funding agreements with the US Bureau of Reclamation have been signed. California forbearance agreements are needed, and staff is working with California parties toward the launch of project implmentation.

Metropolitan's Centralized Grants Management Office (CGMO), Finance, External Affairs, and Legal staff continue to track federal executive orders and their effects on Metropolitan's projects and the region. CGMO staff set up a SharePoint site to track the news on federal funding and all federally funded Metropolitan projects.

General Manager's Monthly Report

Staff also developed a shared site for Fire Recovery/FEMA resources and held three meetings in February with Foothill Municipal Water District and sub-agency staff. Topics covered included:

- a. Overview of Altadena and Pasadena Water infrastructure
- b. Speakers from Sonoma Water who shared the recovery experience from 2017 Tubbs Fire
- c. FEMA and Best Management Practices, presented by crisis and emergency management specialists from the firm Witt O'Brien's

Adapt to changing climate and water resources



Goal Dashboard

10 Outcomes in process. 1 Outcome behind schedule.

Provide each member agency access to an equivalent level of water supply reliability.

Staff presented the first draft of the CAMP4W Implementation Strategy at the Task Force. The Strategy is both the culmination of this phase of the planning process and describes key climate adaptation

activities over the next five years. The Strategy compiles the work of the Task Force over the last 18 months including the Needs, Vulnerability, and Infrastructure Assessments, Time-Bound Targets and the Climate Adaptation Policy Framework, the Climate Decision-Making Framework, and a description and timeline of key adaptation strategies. The Implementation Strategy will be discussed in FAAME Committee and the Task Force again in March, and will be presented to the Board for approval in April.

Updates on four projects toward long-term water supply reliability for the State Water Project-dependent areas:

• Design of the 30 cfs Sepulveda Feeder Pump Station Stage 1 project is 75 percent complete. Staff is currently negotiating with the design/build contractor for the costs related to the



A draft CAMP4W Implementation Strategy was released toward Board consideration in April.

remainder of the design work as well as the construction phase of the project.

• The contractor is currently installing electrical conduits to power the valve vault and associated equipment for the Wadsworth Pump Plant Bypass. Construction is 80 percent complete and is scheduled to be complete in June 2025.

General Manager's Monthly Report

- For the Inland Feeder Badlands Tunnel Surge Protection, the contractor is currently backfilling the area surrounding the valve vault. Construction is approximately 78 percent complete and is scheduled to be complete in June 2025.
- Phase 2 of the Surface Water Storage Study is 85 percent complete with a shortlist of potential sites identified and a set of proposed evaluation criteria. The Phase 2 study is anticipated to complete by June 2025.

Advance the long-term reliability and resilience of the region's water sources through a One Water approach that recognizes the interconnected nature of imported and local supplies, meets both community and ecosystem needs and adapts to a climate change.

Climate Action Plan

Recruitment for the Climate Action Plan (CAP) Program Manager is complete. The new CAP Program Manager will start in March. The third annual CAP implementation progress report is being prepared.

Pure Water

Metropolitan convened the Regional Water Reuse Collaborative. West Basin Municipal Water District presented their plans and points of coordination, and LADWP led a group conversation about opportunities for regional workforce development.

Preliminary design of the first two pipeline reaches is anticipated to be complete later this year. Current work includes utility and geotechnical investigations, incorporating value engineering comments to increase the amount of tunneling in the first reach, and development of preliminary design report and drawings. A market sounding for Reach 1 and Reach 2 CM/GC is also anticipated in March, followed by advertisement this summer.

Bay Delta

On February 14, the California Department of Fish and Wildlife issued an Incidental Take Permit under Section 2081 of the California Endangered Species Act for the Delta Conveyance Project. Completion of this permit is an important milestone in the planning and pre-implementation process.

On February 10, staff released a Request for Proposals to engage a partner to cultivate rice on a minimum of 1,000 and up to 1,360 acres on Webb Tract with an initial base term of 10 years and an option to extend for an additional 5 years.

Water Use Efficiency

The Water Use Efficiency coordinator meeting and Program Advisory Committee meeting were held in February. Continued financial support is provided through the Member Agency Administered Program, where agencies can use funding for local projects to assist with legislative compliance. Staff is

General Manager's Monthly Report

available to provide updates and technical assistance to Member Agencies upon request.

Interviews for the One Water Awards honoree videos are underway. Each video will highlight industrial and institutional project participation of Metropolitan's Regional Rebate and Water Savings Incentive Programs. The Save the Date has been sent to the Board of Directors and will be soon distributed to the general managers of all member agencies.

Protect public health, the regional economy, and Metropolitan's assets



Goal Dashboard

9 Outcomes in process and on target.

Proactively identify, assess, and reduce potential vulnerabilities to Metropolitan's system, operations, and infrastructure.

Risk-Informed Asset Management

We have incorporated climate impacts and benefits into Metropolitan's updated CIP scoring criteria and will use that feature to better prioritize projects for the next biennium after testing the process in the 24/26 CIP budget development. Integration of climate adaptation like this is reflected in the completed CAMP4W Working Memo #7.

Staff availability has been limited to support the comprehensive updating of the Strategic Asset Management Plan, including the incorporation of climate adaptation goals. A consultant has been brought on board to assist with updating the plan and facilitating workshop discussions. The completion date has been extended to April 2026.

The Risk and Resiliency Assessment (RRA) is on track for March 2025 completion. Work on the Emergency Response Plan will commence after the RRA is completed.

Water Quality and Emerging Contaminants

A second online workshop was held in February, bringing together regional agencies affected by the January wildfires and the Division of Drinking Water to continue discussion of recovery efforts. A Member Agency Water Quality Managers meeting on emerging issues is scheduled on March 13, 2025, and will cover quagga and golden mussels in the State Water Project, unregulated disinfection byproducts, and member agency accessibility to water quality reports.

General Manager's Monthly Report

The final preliminary design of the Water Quality Laboratory seismic retrofit and upgrade is on schedule for completion by March 3, 2025, and the request to proceed with final design is to be presented to Metropolitan's Board in April.

Electrical upgrades have been completed and HVAC modifications scheduled at the Water Quality Laboratory in anticipation of the March delivery of the liquid chromatography tandem mass spectrometer for PFAS analysis.

Innovation Program

The Innovation Team held a workshop with the Group Managers and Booky Oren Consulting to share their Knowledge to Implementation (K2i) platform, which compiles meeting notes and videos from global interagency exchanges on a broad set of critical water management, governance, and operations issues. Group Managers are providing feedback on their key areas of concern and needs in order to inform the Innovation Program and identify opportunities for exchange with other water utilities. The team is also preparing for our bi-annual Western Water Technical Advisory Group meeting at Metropolitan for water utilities throughout the region to discuss emerging technologies.



Partner with interested parties and the communities we serve



Goal Dashboard

5 Outcomes on target. 1 Outcome uncertain pending federal developments.

Grow and deepen collaboration and relationships among member agencies, interested parties and leaders on the issues most important to them and toward mutual and/or regional benefits.

Metropolitan held an environmental listening session on the draft CAMP4W Annual Report in February. A hybrid event is being planned for March to share the implementation strategy and future opportunities for engagement. One of the initiatives identified in the CAMP4W policy framework is to develop community engagement standards. This will begin later this spring and will inform future outreach and engagement for CAMP4W.

Reach disadvantaged communities and non-traditional interested parties to better understand their needs and ensure their inclusion in decision making.

Staff participated in seven events to increase awareness and tribal engagement in the Desert region. Desert and Native Nations outreach was conducted regarding apprenticeship program opportunity and industry awareness, including interview skills and resume building.

The Equity in Infrastructure Pledge activities have been tabled temporarily until the impact of federal executive orders are analyzed.

Executive Summary

This executive summary is added to this report to provide a high-level snapshot of key accomplishments from each area of the organization.

Bay-Delta Resources

On February 14, the California Department of Fish and Wildlife issued an Incidental Take Permit under Section 2081 of the California Endangered Species Act for the Delta Conveyance Project. Completion of this permit is an important milestone in the planning process, advancing this critical project closer to implementation.

On February 10, staff released a <u>Request for Proposals</u> to engage a partner to cultivate rice on a minimum of 1,000 acres up to 1,360 acres on Webb Tract with an initial base term of 10 years and an option to extend for an additional 5 years.

Chief Financial Officer

Business Continuity worked with the Diemer and Weymouth water treatment plants to expand access to the MetAlert emergency notification system for local facility-specific emergency alerts.

Colorado River Resources

On February 13, the Lower Basin States sent a letter of congratulations to recently confirmed Secretary of the Interior Doug Burgum. The letter highlighted the Lower Basins' commitment to work with the Upper Basin States to develop a Basin State consensus plan for the Colorado River but also expressed concerns with the Alternatives Report for the new guidelines issued by the prior administration. Additionally, on February 27, Metropolitan signed a letter with Southern Nevada Water Authority and Central Arizona Project supporting the Bureau of Reclamation employees and encouraging sufficient staffing to effectively manage the Colorado River system.

Diversity, Equity & Inclusion

In February, Metropolitan staff participated in the CUWA and CSU-WATER Careers in Water webinar, engaging over 120 CSU students, the Education to Workforce Tour (hosted by MWDOC and SDCWA), the BizFed Institute Workforce Development Summit and Career Fair, and California Water virtual career fair (with SDCWA and West Basin). Staff presented an industry workforce awareness session and presentation regarding the apprenticeship program to United American Indian Involvement, Inc., a Los Angeles-based nonprofit providing resources and job readiness skills to American Indian and Alaskan Native communities in Los Angeles. Outreach efforts focused on industry awareness, career readiness, and apprenticeship outreach with tribal and educational partners. Staff also actively participated in key business and community events, including the LA Area Chamber of Commerce 2025 Inaugural Event, the Regional Hispanic Chamber's Business Development Series, and the Small Business Diversity Network Leadership Luncheon, fostering partnerships and expanding opportunities for SBEs, DVBEs, and nonprofits. Additional engagements included the Black Business Association's Future Leaders Luncheon and the CalTrans Procurement Fair, connecting small businesses with procurement and contracting opportunities.

Engineering Services

National Engineers Week started in 1951 to increase public awareness of engineering, celebrate accomplishments of engineers, and encourage students to engage in science and technology. To promote interests in pursuing engineering careers, American Society of Civil Engineers (ASCE) hosts an Annual Engineers Week Girl Day. This year, ASCE partnered with Metropolitan to host the event at the Metropolitan Headquarters Building on February 20, 2025. About 100 local high school students attended the event. Featured speakers included Metropolitan's interim Chief Engineer, staff engineers, an engineering intern, and an engineer from the City of Los Angeles. Students were introduced to how engineers contribute to building a safe, reliable, and sustainable water supply

Executive Summary

for Southern California, and the speakers shared their academic and professional paths to inspire the next generation of engineers.

Equal Employment Opportunity Office

On February 11, 2025, EEO provided an update on Metropolitan's Non-discrimination Program (NDP) results for fiscal year 2024 to Metropolitan's recruitment team. An updated list of underutilized job classifications was provided to recruitment and the team was reminded to include EEO in the Hiring Strategy Meetings for all positions identified as underutilized.

External Affairs

Chair Ortega, Vice Chairs Camacho and Garza, Directors Erdman, Faessel, and Seckel, GM Upadhyay, and Metropolitan staff participated in the dedication of the Dr. Michael J. McGuire Water Quality Lab on February 20, 2025. The event, organized by External Affairs in collaboration with Water System Operations' Water Quality Section, highlighted the accomplishments of Dr. McGuire and the importance of the Water Quality Lab in protecting the region's drinking water supplies.

Human Resources

The Business Support Team planned, organized, and coordinated a "Taking Care of Your Heart" wellness webinar. The live webcast was held on February 5, 2025, and was hosted by Kaiser Permanente. The webinar provided employees with the opportunity to learn about heart disease and identify associated risk factors. The Mediterranean and plant-based meal plans were highlighted in relationship to keeping a healthy heart. Employees were invited to create a realistic heart-healthy action plan, using their personal strengths to keep a heart healthy life.

Information Technology

Final testing is underway for our new CIP Budgeting System. The new system is expected to go live in March 2025 for submission and processing of proposals for the 2026–2027 and 2027–2028 biennium CIP proposals. This new system will replace the initial SharePoint system and will use Microsoft technology that most district users are already familiar with and working with. In the new system, proposal submission will be simplified, and the approval process will be streamlined by eliminating redundancies and unifying the budget and risk form as part of the proposal.

Operations Groups

Operations staff successfully completed a shutdown to perform internal inspections of the Rialto Pipeline and approximately one mile of the 120-inch Etiwanda Pipeline from the Etiwanda Wye. This shutdown enabled the installation of a new Inland Feeder to Rialto Pipeline connection as part of a series of drought projects being completed to allow conveyance of water from Diamond Valley Lake to the Rialto Pipeline. This shutdown also allowed for replacement of multiple faulty valves and the mortar lining along a 35-foot section of the Rialto Pipeline that exhibited excessive wear. This successful shutdown reflects the team's dedication, expertise, and hard work in ensuring the reliability and resilience of Metropolitan's water system.

Safety, Security and Protection

Metropolitan co-hosted a successful Water Security Summit with the FBI and CISA, highlighting the need for strong partnerships in protecting critical infrastructure. With growing cyber, physical, and insider threats, resilience is essential. Serving 19 million people, Metropolitan remains committed to security through investments in emergency response, cybersecurity, and infrastructure protection. The Summit fostered dialogue on emerging risks and reinforced the importance of cross-sector collaboration to strengthen regional resilience.

Executive Summary

Metropolitan's emergency management staff focused on responding to the January 2025 wildfires in Los Angeles County. The Emergency Operations Center (EOC) was activated for over 20 days, with staff embedded in the County EOC, fire command posts, and evacuation sites. The EOC coordinated mutual assistance for Pasadena Department of Water and Power, Foothill Municipal Water District, and its impacted agencies. It also supported HR in issuing emergency alerts on employee safety and reporting.

The Safety Team conducted toolbox meetings with the coatings teams to review the recent changes in the Lead in Construction regulations. Additionally, the Technical Training team is updating related training materials to reflect these changes. The Environmental Team submitted 18 wastewater compliance reports for various facilities.

Sustainability, Resiliency and Innovation

SRI and the Core Planning Team for the Climate Adaptation Master Plan for Water (CAMP4W) finalized the 2024 CAMP4W Annual Report providing updates on Signposts, Time-Bound Targets, and Implementation Highlights.

Water Resource Management

WRM staff took strides in furthering regional efforts and implementation of local resources by attending a ribbon cutting for the recycled water efforts at the Los Angeles Community Colleges. WRM staff delivered the 25th annual report to the California Legislature on the Metropolitan's Achievements in Conservation, Recycling & Groundwater Recharge, which details the regional emphasis in those areas of water resource development. WRM staff held a Water Efficient Landscape Dual Certification session. WRM staff collaborated with Coachella Valley Water District, Desert Water Agency, and the California Department of Water Resources on an update to the seepage recovery efforts at Lake Perris. WRM staff provided multiple presentations and participated on panels to various stakeholders and conferences including CalDesal and the American Society of Golf Course Architects. WRM staff promoted greater water utility understanding of climate change science and modeling through the work and the release of the Water Utility Climate Alliance's "CMIP6 Frequently Asked Questions (FAQ): A Resource for Water Managers."







"Vast infrastructure, vigilant guardians: Metropolitan's resilience is built not on sheer numbers, but on the unparalleled expertise and unwavering dedication of its Security and Emergency Management Unit."

Tomer Benito, Unit Manager, Security

PROGRAM DESCRIPTION

Metropolitan's vast infrastructure, spanning over 5,200 square miles and serving millions of Southern Californians, demands constant vigilance to protect its physical and cyber assets and ensure resilience against natural and human threats. In an ideal scenario, the Security and Emergency Management Unit (SEMU) would be staffed with hundreds of professionals to meet these demands. Instead, Metropolitan operates with a small but highly skilled team—each member an "army of one."

Beyond their certifications, each SEMU team member brings a unique skill set, from fraud examination and executive protection to emergency medical response and threat management. This breadth of expertise makes the unit an invaluable asset to Metropolitan, equipping it to tackle emerging security challenges.

IMPORTANCE TO METROPOLITAN

SEMU staff are among the few in the world recognized as Certified Protection Professionals, a designation that carries significant authority in the security and emergency management field. Their expertise fosters strong relationships with local, state, and federal agencies, ensuring Metropolitan remains at the forefront of security in the utility sector. Given the scale of their responsibilities—each overseeing multiple facilities across county-sized regions—their ability to act as protective security advisors and leverage external partnerships is critical.

MEMORABLE MOMENT

Metropolitan's leadership in security was further reinforced in February 2025 when it co-hosted the California Water Security Summit with the FBI and the Cybersecurity & Infrastructure Security Agency (CISA). With over 250 participants, the summit underscored the importance of collaboration in safeguarding critical infrastructure.

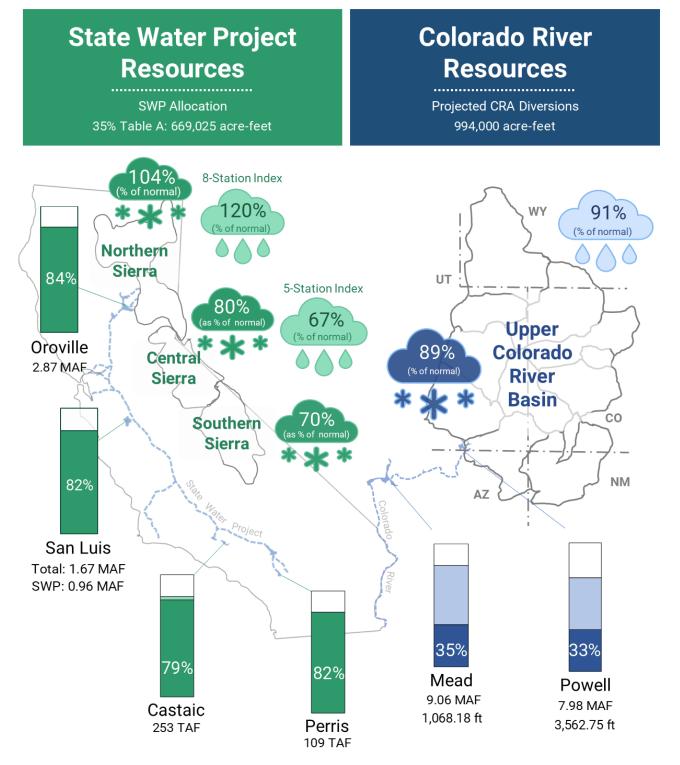
Moments like these serve as a testament to the impact of SEMU's work, positioning Metropolitan as a leader not just in the water sector but in the broader utilities domain.

Water Supply Conditions Report

Water Year 2024-2025

As of 02/28/2025

Extended Report: https://www.mwdh2o.com/WSCR



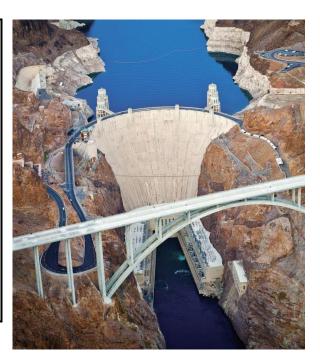
Reservoir Report

End of Month Reservoir Report

Monthly Update as of:

2/28/2025

<u>Reservoir</u>	Current Storage	Percent of Capacity
Colorado River Basin		
Lake Powell	7,983,369	33%
Lake Mead	9,060,000	35%
DWR		
Lake Oroville	2,865,710	83%
San Luis CDWR	960,072	90%
Castaic Lake	252,831	78%
Silverwood Lake	70,214	94%
Lake Perris	109,075	83%
MWD		
DVL	794,567	98%
Lake Mathews	162,975	90%
Lake Skinner	36,833	84%







Metropolitan's Mission is to provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

700 N. Alameda Street, Los Angeles, CA 90012 General Information (213) 217-6000 www.mwdh2o.com www.bewaterwise.com

General Manager: Deven Upadhyay Office of the GM (213) 217-6139 OfficeoftheGeneralManager@mwdh2o.com

General Manager's Monthly Report



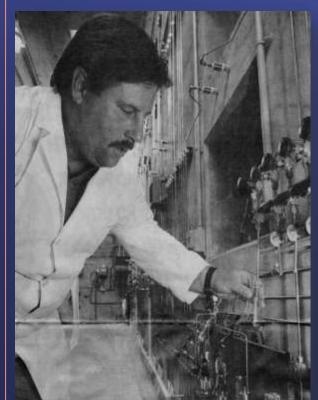
Board of Directors General Manager's Report

Item 5A March 11, 2025

Congratulations Gary Syfers Retiring after 40+ years of service



Mills Plant Manager March 11, 2025



Ozone Development (1994)



Mills Management Team Board of Directors

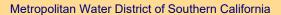


Partnership for Safe Water Awards



Water Quality Team (mid-1990s) Item #5A Slide 2 29







Office of the General Counsel Monthly Activity Report – February 2025



Metropolitan Cases

Ryan Tiegs v. Metropolitan (Riverside County Superior Court)

On March 4, 2025, the Riverside County Superior Court granted Metropolitan's motion for summary judgment or, in the alternative, summary adjudication, dismissing the case in its entirety before trial. Following oral argument, the court adopted as its final decision its tentative ruling of March 3, 2025, which included finding that there was not an adverse employment action sufficient to establish race or gender discrimination, there was not the requisite evidence to establish retaliation or race or gender harassment, and the failure to prevent claim was derivative of the other claims. The court also granted Metropolitan's evidentiary objections. Trial had been set for April 4, 2025.

Matters Received

Category	Received	Description		
Action in which MWD is a party	1	Unlimited Complaint for Damages for: (1) Negligence; (2) Motor Vehicle; (3) Negligent Entrustment; and (4) Negligent Hiring, filed in Los Angeles County Superior Court, in the case <i>Samer Samir Shafik</i> <i>Shahat v. MWD and an MWD employee</i> , Case No. 25STCV01301		
Government Code Claims	2	Claims relating to: (1) the door of an MWD vehicle swung open into Claimant's vehicle in the MWD Jensen parking lot during high winds; and (2) an accident involving an MWD vehicle		
Requests Pursuant to the Public Records Act	17	Requestor	Documents Requested	
		22nd Century Technologies	Winning proposals, bid tabulations, and total payments made to each vendor for Temporary Labor Services - Professional/Administrative, Scientific and Technical	
		Allied Universal	Current contract, contract extensions, wage/bill rates, and winning proposal for security guard services	
		Anaheim Public Works Department	Drawings of any MWD utilities in near the project for the S. Elder Street Sanitary Sewer Improvements in the City of Anaheim	

Requestor	Documents Requested
Atlas Technical Consultants (2 requests)	First Request: Proposals, evaluation scores, and contracts for On-Call Fabrication Inspection Services procured between March and April 2022
	Second Request: Proposals, evaluation scores, and contracts for: (1) On-Call Engineering Services for Water Treatment Facilities, Conveyance, Storage & Distribution Facilities, Large Rotating Equipment, Power Distribution Facilities; (2) On-Call Geotechnical and Dam Safety Engineering Consulting Services; and (3) As Needed Environmental Site Assessment
Atlas Water (2 requests)	 (1) Water management agreements between MWD and Silvertip or I-Squared; and (2) MWD agreements with Westside Agriculture LLC
CCS Global Tech	Bid tabulations, winning proposals, number of task orders/purchase orders issued, and awarded contracts for On- Call Information Technology Services
City of Hemet	Agreement or other documents that shows MWD owns parcel located in the City of Hemet (APN 454-040-035-3)
City of Los Angeles, Office of the City Attorney	Claims Services Agreement between Tristar Risk Management and MWD executed on August 11, 2021, any proposals submitted by Tristar Risk Management that resulted in the 2021 agreement, and any termination letter from MWD to Tristar
Davis Cleaning Services	Janitorial services contract for Lake Mathews
IDS MEP Engineers	Meter and water pressure information for Maywood Teen Center project in the city of Maywood
MWD Supervisors Association	Transcript of MWD board meeting held on January 29, 2025
PCL Construction	Geotechnical report for the Lake Mathews area, around the forebay
Private Citizen	Job posting, selection criteria, qualifications, and demographic information relating to the hiring decision for Information Technology Support Analyst I

Office of the General Counsel Page 3 of 2 Monthly Activity Report – February 2025				
		Requestor	Documents Requested	
		SmartProcure	Purchase order data including purchase order number, purchase order date, line item details, line item quantity, line item price, vendor information from November 11, 2024 to current	
		Ultimate Maintenance Services	Contract for janitorial services at Lake Mathews	
Other Matters	1	Wage garnishment		





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Bay-Delta and SWP Litigation				
Subject	Status			
Delta Conveyance Project CEQA CasesTulare Lake Basin Water Storage District v. California Department of Water Resources (case name for the consolidated cases)City of Stockton v. California Department of Water ResourcesCounty of Butte v. California Department of Water ResourcesCounty of Sacramento v. California Department of Water ResourcesCounty of San Joaquin et al. v. California Department of Water ResourcesSacramento Area Sewer District v. California Department of Water ResourcesSan Francisco Baykeeper, et al. v. California Department of Water ResourcesSierra Club, et al. v. California Department of Water ResourcesSouth Delta Water Agency and Rudy Mussi Investment L.P. v. California Department of Water ResourcesSacramento County Superior Ct. (Judge Acquisto)3d District Court of Appeal Case No. C101878	 DWR is the only named respondent/defendant All alleged CEQA violations Most allege violations of the Delta Reform Act, Public Trust Doctrine and Delta and Watershed Protection Acts Two allege violations of the fully protected bird statute One alleges violations of Proposition 9 (1982) and the Central Valley Project Act Deadline for DWR to prepare the administrative record extended to Jan. 31, 2025 June 20, 2024 trial court issued a preliminary injunction halting pre-construction geotechnical soil testing until DWR certifies that the DCP is consistent with the Delta Plan Aug. 19, 2024 DWR appealed the injunction Oct. 24, 2024 cases ordered consolidated for all purposes under <i>Tulare Lake Basin Water</i> <i>Storage District v. California Department of</i> <i>Water Resources</i> April 4, 2025 next case management conference Jan. 21,2025 DWR's opening brief in preliminary injunction appeal due (DWR is using a rule of court extension, so filing date TBD) Feb. 6, 2025 DWR filed its opening brief on appeal of the preliminary injunction halting preconstruction geotechnical work. March 21, 2025 trial court hearing on DWR's motion to for stay of enforcement of injunction to allow the DCA to resume preconstruction 			



Office of the General Counsel Monthly Activity Report – February 2025

Subject	Status
Delta Conveyance Project Water Right Permit Litigation Central Delta Water Agency et al. v. State Water Resources Control Board Fresno County Superior Court (Judge Hamilton)	 Complaint filed April 16, 2024, alleges that the State Water Board must rule on DWR's 2009 petition to extend the time to perfect its State Water Project rights before the State Water Board may begin to adjudicate DWR's petition to change its water rights to add new points of diversion for the Delta Conveyance Project Sept. 19 hearing date for State Water Resources Control Board demurrer (motion to dismiss) and motion to strike and DWR's demurrer (motion to dismiss) taken off calendar by court-entered stipulation of the parties after DWR withdrew the 2009 petition to extend its SWP water rights March 11, 2025 Trial Setting Conference
Consolidated DCP Revenue Bond Validation Action and CEQA Case Sierra Club, et al. v. California Department of Water Resources (CEQA, designated as lead case) DWR v. All Persons Interested (Validation) Sacramento County Superior Ct. (Judge Kenneth C. Mennemeier) 3d District Court of Appeal Case No. C100552	 Validation Action Final Judgment and Final Statement of Decision issued January 16, 2024 ruling the bonds are not valid DWR, Metropolitan and other supporting public water agencies filed Notices of Appeal on or before the February 16, 2024 deadline Eight opposing groups filed Notices of Cross Appeals by March 27, 2024 April 16, 2024 DWR moved to dismiss the cross appeals as untimely October 4, 2024 DWR's and Supporting SWP Contractors' Joint Opening Brief and Appellants' Appendix filed October 15, 2024 DWR's and Supporting SWP Contractors' joint motion for calendar preference was granted; the appeal will be accorded priority pursuant to statutory provisions, which should accelerate oral argument and the court's decision once briefing is completed in about March 2025 Respondents' and Cross-Appellants' briefs filed Dec. 31, 2024 and Jan. 2, 2025 DWR's and Supporting SWP Contractors' Opposition Briefs due filed reply to Howard Jarvis Taxpayers Association's opposition brief Feb. 11, 12, 2025 DWR's and Supporting SWP Contractors' combined opposition to cross-appeals and reply brief due ~March 18, 2025





Office of the General Counsel Monthly Activity Report – February 2025

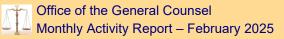
Subject	Status
2025 Delta Conveyance Program Revenue Bond Validation Department of Water Resources v. All Persons Interested, etc. Sacramento County Superior Court (Judge TBD)	 Jan. 6, 2025, the Department of Water Resources (DWR) adopted a new bond resolution Jan. 7, DWR filed a complaint seeking a judgment validating its authority to issue the bonds under the CVP Act Jan. 27, 2025 summons issued Feb. 27, 20265 Case Management Conference March 25, 2025 deadline to file answers Metropolitan and Coachella Valley Water District filed answers in support in mid- and late-February, respectively
SWP-CVP 2019 BiOp Cases Pacific Coast Fed'n of Fishermen's Ass'ns, et al. v. Raimondo, et al. (PCFFA) Calif. Natural Resources Agency, et al. v. Raimondo, et al. (CNRA) Federal District Court, Eastern Dist. of California, Fresno Division (Judge Thurston)	 SWC intervened in both <i>PCFFA and CNRA</i> cases Federal defendants reinitiated consultation on Oct 1, 2021 March 28, 2024 order extending the Interim Operations Plan and the stay of the cases through the issuance of a new Record of Decision or December 20, 2024, whichever is first
 2020 CESA Incidental Take Permit Cases Coordinated Case Name CDWR Water Operations Cases, JCCP 5117 (Coordination Trial Judge Gevercer) Metropolitan & Mojave Water Agency v. Calif. Dept. of Fish & Wildlife, et al. (CESA/CEQA/Breach of Contract) State Water Contractors & Kern County Water Agency v. Calif. Dept. of Fish & Wildlife, et al. (CESA/CEQA) San Bernardino Valley Municipal Water Dist. v. Calif. Dept. of Water Resources, et al. (CEQA/CESA/ Breach of Contract/Takings) Sierra Club, et al. v. Calif. Dept. of Water Resources (CEQA/Delta Reform Act/Public Trust) San Francisco Baykeeper, et al. v. Calif. Dept. of Water Resources, et al. (CEQA/CESA) 	 Administrative records certified in October 2023 Order entered to delay setting a merits briefing schedule by 90 days and extending the time to bring the action to trial by six months Deadline to bring all the coordinated cases to trial is now December 5, 2025 December 2024 three petitioner groups filed requests for dismissal without prejudice Remaining petitioner groups meeting and conferring in light of the new, 2024 CESA Incidental Take Permit March 7, 2025 Case Management Conference



Subject	Status
2024 CESA Incidental Take Permit Cases San Francisco Baykeeper, et al. v. California Department of Water Resources (CEQA, Delta Reform Act, Public Trust Doctrine)	 Cases challenge DWR's Final EIR and the California Department of Fish and Wildlife's California Endangered Species Act Incidental Take Permit for the updated Long Term Operations plan for the State Water Project
Sacramento County Superior Ct. Case No. 24WM000185 (Judge Arguelles)	
California Sportfishing Protection Alliance, et al. v. California Department of Water Resources, et al. (CEQA, CESA, Delta Reform Act, Public Trust Doctrine)	
Sacramento County Superior Ct. Case No. 24WM000181 (Judge Arguelles)	
Tehama-Colusa Canal Authority, et al. v. California Department Of Water Resources, et al. (CEQA)	
Sacramento County Superior Ct. Case No. 24WM000183 (Judge Rockwell)	
Central Delta Water Agency and South Delta Water Agency v. California Department of Water Resources (CEQA, Delta Reform Act, Watershed Protection Acts, Public Trust Doctrine)	
Sacramento County Superior Ct. Case No. 24WM000186 (Judge Acquisto)	



Subject	Status
CDWR Environmental Impact Cases Sacramento Superior Ct. Case No. JCCP 4942, 3d DCA Case No. C100302 (20 Coordinated Cases) Validation Action DWR v. All Persons Interested CEQA 17 cases CESA/Incidental Take Permit 2 cases (Judge Arguelles)	 Cases dismissed after DWR rescinded project approval, bond resolutions, decertified the EIR, and CDFW rescinded the CESA incidental take permit January 10, 2020 – Nine motions for attorneys' fees and costs denied in their entirety May 11, 2022, court of appeal reversed the trial court's denial of attorney fees and costs Coordinated cases remitted to trial court for re-hearing of fee motions consistent with the court of appeal's opinion Dec. 26, 2023 order denying fee motions Six notices of appeal filed Appellants' opening briefs and appendices filed Oct. 29 and Oct. 31 Jan. 31, 2025 deadline for DWR's opposition brief (DWR is using a rule of court extension, so filing date TBD) Feb. 13, 2025 DWR filed its omnibus respondents' (opposition) brief Reply briefs due May 5, 2025
<i>North Coast Rivers Alliance v. DWR</i> Sacramento County Superior Ct. (Judge Rockwell)	Case dismissed Dec. 12, 2024
Water Management Tools Contract Amendment California Water Impact Network et al. v. DWR Sacramento County Superior Ct. (Judge Acquisto) North Coast Rivers Alliance, et al. v. DWR Sacramento County Super. Ct. (Judge Acquisto)	 Filed September 28, 2020 CWIN and Aqualliance allege one cause of action for violation of CEQA NCRA et al. allege four causes of action for violations of CEQA, the Delta Reform Act, Public Trust Doctrine and seeking declaratory relief SWC motion to intervene in both cases granted Dec. 20, 2022 DWR filed notice of certification of the administrative record and filed answers in both cases



San Diego County Water Authority v. Metropolitan, et al.			
Cases	Date	Status	
2014, 2016	Sept. 30	Based on the Court of Appeal's Sept. 21 opinion in the parties' earlier 2010/2012 cases, and the Board's Sept. 28 authorization, Metropolitan paid \$35,871,153.70 to SDCWA for 2015-2017 Water Stewardship Rate charges under the Exchange Agreement and statutory interest.	
2017	July 23, 2020	Dismissal without prejudice entered.	
2018	April 11, 2022	Court entered order of voluntary dismissal of parties' WaterFix claims and cross-claims.	
2014, 2016, 2018	June 11, 2021	Deposition of non-party witness.	
	Aug. 25	Hearing on Metropolitan's motion for further protective order regarding deposition of non-party witness.	
	Aug. 25	Court issued order consolidating the 2014, 2016, and 2018 cases for all purposes, including trial.	
	Aug. 30	Court issued order granting Metropolitan's motion for a further protective order regarding deposition of non-party witness.	
	Aug. 31	SDCWA filed consolidated answer to Metropolitan's cross-complaints in the 2014, 2016, and 2018 cases.	
	Feb. 22	Metropolitan and SDCWA each filed motions for summary adjudication.	
	April 13	Hearing on Metropolitan's and SDCWA's motions for summary adjudication.	
	May 4	Court issued order granting Metropolitan's motion for summary adjudication on cross-claim for declaratory relief that the conveyance facility owner, Metropolitan, determines fair compensation, including any offsetting benefits; and denying its motion on certain other cross- claims and an affirmative defense.	
	May 11	Court issued order granting SDCWA's motion for summary adjudication on cross-claim for declaratory relief in the 2018 case regarding lawfulness of the Water Stewardship Rate's inclusion in the wheeling rate and transportation rates in 2019-2020; certain cross- claims and affirmative defenses on the ground that Metropolitan has a duty to charge no more than fair compensation, which includes reasonable credit for any offsetting benefits, with the court also stating that whether that duty arose and whether Metropolitan breached that duty are issues to be resolved at trial; affirmative defenses that SDCWA's claims are untimely and SDCWA has not satisfied claims presentation requirements; affirmative defense in the 2018 case that SDCWA has not satisfied contract dispute resolution requirements; claim, cross-claims, and affirmative defenses regarding applicability of	



Cases	Date	Status
2014, 2016, 2018 (cont.)		Proposition 26, finding that Proposition 26 applies to Metropolitan's rates and charges, with the court also stating that whether Metropolitan violated Proposition 26 is a separate issue; and cross-claims and affirmative defenses regarding applicability of Government Code section 54999.7, finding that section 54999.7 applies to Metropolitan's rates. Court denied SDCWA's motion on certain other cross-claims and affirmative defenses.
	May 16-27	Trial occurred but did not conclude.
	June 3, June 24, July 1	Trial continued, concluding on July 1.
	June 24	SDCWA filed motion for partial judgment.
	July 15	Metropolitan filed opposition to motion for partial judgment.
	Aug. 19	Post-trial briefs filed.
	Sept. 14	Court issued order granting in part and denying in part SDCWA's motion for partial judgment (granting motion as to Metropolitan's dispute resolution, waiver, and consent defenses; denying motion as to Metropolitan's reformation cross-claims and mistake of fact and law defenses; and deferring ruling on Metropolitan's cost causation cross- claim).
	Sept. 21	Metropolitan filed response to order granting in part and denying in part SDCWA's motion for partial judgment (requesting deletion of Background section portion relying on pleading allegations).
	Sept. 22	SDCWA filed objection to Metropolitan's response to order granting in part and denying in part SDCWA's motion for partial judgment.
	Sept. 27	Post-trial closing arguments.
	Oct. 20	Court issued order that it will rule on SDCWA's motion for partial judgment as to Metropolitan's cost causation cross-claim simultaneously with the trial statement of decision.
	Dec. 16	Parties filed proposed trial statements of decision.
	Dec. 21	SDCWA filed the parties' stipulation and proposed order for judgment on Water Stewardship Rate claims for 2015-2020.
	Dec. 27	Court entered order for judgment on Water Stewardship Rate claims for 2015-2020 as proposed by the parties.
	March 14, 2023	Court issued tentative statement of decision (tentatively ruling in Metropolitan's favor on all claims litigated at trial, except for those ruled to be moot based on the rulings in Metropolitan's favor)



Cases	Date	Status
2014, 2016, 2018 (cont.)	March 14	Court issued amended order granting in part and denying in part SDCWA's motion for partial judgment (ruling that Metropolitan's claims for declaratory relief regarding cost causation are not subject to court review).
	March 29	SDCWA filed objections to tentative statement of decision
	April 3	Metropolitan filed response to amended order granting in part and denying in part SDCWA's motion for partial judgment (requesting deletion of Background section portion relying on pleading allegations).
	April 25	Court issued statement of decision (ruling in Metropolitan's favor on all claims litigated at trial, except for those ruled to be moot based on the rulings in Metropolitan's favor)
	Jan. 10, 2024	Parties filed joint status report and stipulated proposal on form of judgment
	Jan. 17	Court issued order approving stipulated proposal on form of judgment (setting briefing and hearing)
	April 3	Court entered final judgment
	April 3	Court issued writ of mandate regarding demand management costs
	April 3	SDCWA filed notice of appeal
	April 17	Metropolitan filed notice of cross-appeal
	May 3	Participating member agencies filed notice of appeal
	May 31	Parties filed opening briefs on prevailing party
	June 28	Parties filed response briefs on prevailing party
	July 17	Court issued tentative ruling that there is no prevailing party due to mixed results
	July 18	Hearing on prevailing party; court took matter under submission, stating it expects to rule in mid-Aug.
	Aug. 15	Court issued ruling that Metropolitan is the prevailing party and is entitled to SDCWA's payment of its litigation costs and fees under the Exchange Agreement
	Sept. 25	Court issued order extending time for Metropolitan to file its memorandum of costs and motion for attorneys' fees
	Sept. 27	Metropolitan filed its memorandum of costs in the amount of \$372,788.64



Cases	Date	Status
2014, 2016, 2018 (cont.)	Oct. 18	Parties filed a joint application to extend the briefing schedule in the Court of Appeal
	Oct. 21	Court of Appeal granted parties' joint briefing schedule; briefing begins April 11, 2025 and ends October 10, 2025
	Oct. 29	SDCWA filed its motion to tax (reduce) Metropolitan's costs
	Nov. 26	SDCWA withdrew its motion to tax (reduce) Metropolitan's costs and requested that the court cancel the Dec. 11 motion hearing
	Dec. 17	The court entered the parties' stipulated order that Metropolitan's recoverable attorneys' fees are \$3,402,408.71 and its recoverable costs are \$372,788.64; unless the Court of Appeal reverses the order that Metropolitan is the prevailing party, SDCWA is to pay Metropolitan these amounts, plus interest; and briefing on Metropolitan's motion for attorneys' fees is vacated.
	Dec. 17	The court issued an order reassigning the cases from the Honorable Anne-Christine Massullo to the Honorable Ethan P. Schulman.
	Jan. 28, 2025	Court of Appeal granted parties' modified joint briefing schedule; briefing begins July 11, 2025 and ends January 9, 2026.
All Cases	April 15, 2021	Case Management Conference on 2010-2018 cases. Court set trial in 2014, 2016, and 2018 cases on May 16-27, 2022.
	April 27	SDCWA served notice of deposition of non-party witness.
	May 13-14	Metropolitan filed motions to quash and for protective order regarding deposition of non-party witness.
	June 4	Ruling on motions to quash and for protective order.



Outside Counsel Agreements				
Firm Name	Matter Name	Agreement No.	Effective Date	Contract Maximum
Albright, Yee & Schmit, APC	Employment Matter	220423	10/24	\$100,000
Aro	Employment Matter	222524	11/24	\$50,000 <u>\$75,000</u>
	Employment Matter	222529	12/24	\$50,000
Andrade Gonzalez LLP	MWD v. DWR, CDFW and CDNR Incidental Take Permit (ITP) CESA/CEQA/Contract Litigation	185894	07/20	\$250,000
Aleshire & Wynder	Oil, Mineral and Gas Leasing	174613	08/18	\$50,000
Anzel Galvan LLP	Bond Issues	220411	07/24	N/A
Atkinson Andelson Loya Ruud & Romo	Employee Relations	59302	04/04	\$1,316,937
	Delta Conveyance Project Bond Validation-CEQA Litigation	185899	09/21	\$250,000
	MWD Drone and Airspace Issues	193452	08/20	\$50,000
	AFSCME Local 1902 in Grievance No. 1906G020 (CSU Meal Period)	201883	07/12/21	\$30,000
	AFSCME Local 1902 v. MWD, PERB Case No. LA-CE-1438-M	201889	09/15/21	\$20,000
	MWD MOU Negotiations**	201893	10/05/21	\$100,000
	Misconduct Investigation	<u>222533</u>	<u>01/25</u>	<u>\$25,000</u>
	Ethics Investigation	<u>222534</u>	<u>01/25</u>	<u>\$25,000</u>
BDG Law Group, APLC	Gutierrez v. MWD	216054	03/24	\$250,000



Firm Name	Matter Name	Agreement No.	Effective Date	Contract Maximum
Best, Best & Krieger	Bay-Delta Conservation Plan/Delta Conveyance Project (with SWCs)	170697	08/17	\$500,000
	Environmental Compliance Issues	185888	05/20	\$100,000
	Grant Compliance Issues	211921	05/23	\$150,000
	Pure Water Southern California	207966	11/22	\$250,000
	Progressive Design Build	216053	04/24	\$250,000
Blooston, Mordkofsky, Dickens, Duffy & Prendergast, LLP	FCC and Communications Matters	110227	11/10	\$100,000
Brown White & Osborn LLP	Employment Matter	222523	10/24	\$50,000
LLP	Employment Matter	222525	11/24	\$50,000
Buchalter, a Professional Corp.	Union Pacific Industry Track Agreement	193464	12/07/20	\$50,000
Burke, Williams &	Real Property – General	180192	01/19	\$100,000
Sorensen, LLP	Labor and Employment Matters	180207	04/19	\$75,000
	General Real Estate Matters	180209	08/19	\$200,000
	Rancho Cucamonga Condemnation Actions (Grade Separation Project)	207970	05/22	\$100,000
Law Office of Alexis S.M. Chiu*	Bond Counsel	200468	07/21	N/A
S.M. Chiu	Bond Counsel	220409	07/24	N/A
Castañeda + Heidelman LLP	Employment Matter	216055	04/24	\$100,000
	Employment Matter	222530	11/24	\$100,000
Cislo & Thomas LLP	Intellectual Property	170703	08/17	\$100,000
Curls Bartling P.C.*	Bond Counsel	200470	07/21	N/A
Davis Wright Tremaine, LLP	Advice and Representation re Potential Litigation	220424	10/24	\$250,000
Duane Morris LLP	SWRCB Curtailment Process	138005	09/14	\$615,422



Firm Name	Matter Name	Agreement No.	Effective Date	Contract Maximum
Duncan, Weinberg, Genzer & Pembroke	Power Issues	6255	09/95	\$3,175,000
Ellison, Schneider, Harris & Donlan	Colorado River Issues	69374	09/05	\$175,000
	Issues re SWRCB	84457	06/07	\$200,000
Erin Joyce Law, PC	Employment Matter	216039	11/23	\$100,000
	Ethics Advice	216058	05/24	\$100,000
Glaser Weil Fink Howard Jordan & Shapiro	Employment Matter	220395	7/24	\$150,000
Greines, Martin, Stein & Richland LLP	SDCWA v. MWD	207958	10/22	\$100,000
	Colorado River Matters	207965	11/22	\$100,000
Hackler Flynn & Associates	Government Code Claim Advice	216059	5/24	\$150,000
Haden Law Office	Real Property Matters re Agricultural Land	180194	01/19	\$50,000
Hanna, Brophy, MacLean, McAleer & Jensen, LLP	Workers' Compensation	211926	06/23	\$500,000
Hanson Bridgett LLP	Finance Advice	158024	12/16	\$100,000
	Deferred Compensation/HR	170706	10/17	\$500,000
	Tax Issues	180200	04/19	\$50,000
	Alternative Project Delivery (ADP)	207961	10/22	\$250,000
	Ad Valorem Property Taxes	216042	11/23	\$100,000
Harris & Associates	Employment Matter	220397	7/24	\$100,000
Hausman & Sosa, LLP	Jones v. MWD	216056	05/24	\$100,000
	Villavicencio v. MWD	220426	10/24	\$100,000
	Jensen Operator Standby Removal	222522	10/24	\$100,000



Firm Name	Matter Name	Agreement No.	Effective Date	Contract Maximum
Hawkins Delafield & Wood LLP*	Bond Counsel	193469	07/21	N/A
	Bond Counsel	220405	07/24	N/A
Hemming Morse, LLP	Baker Electric v. MWD	211933	08/23	\$175,000
Horvitz & Levy	SDCWA v. MWD	124100	02/12	\$1,250,000
	General Appellate Advice	146616	12/15	\$200,000
	Colorado River	203464	04/22	\$100,000
	Delta Conveyance Bond Validation Appeal	216047	03/24	\$25,000
	PFAS Multi-District Litigation – Appeal	216050	03/24	\$200,000
Innovative Legal Services, P.C.	Employment Matter	211915	01/19/23	\$175,000
Internet Law Center	Cybersecurity and Privacy Advice and Representation	200478	04/13/21	\$100,000
	Systems Integrated, LLC v. MWD	201875	05/17/21	\$100,000
Amira Jackmon, Attorney at Law*	Bond Counsel	200464	07/21	N/A
Jackson Lewis P.C.	Employment: Department of Labor Office of Contract Compliance	137992	02/14	\$45,000
Jones Hall, A Professional Law Corp*	Bond Counsel	200465	07/21	N/A
Katten Muchin Rosenman LLP	Bond Counsel	220412	07/24	N/A
Kronenberger Rosenfeld, LLP	Systems Integrated, LLC v. MWD	211920	04/23	\$250,000
Kutak Rock LLP	Delta Islands Land Management	207959	10/22	\$60,000



Firm Name	Matter Name	Agreement No.	Effective Date	Contract Maximum
Liebert Cassidy Whitmore	Labor and Employment	158032	02/17	\$240,821
winanore	FLSA Audit	180199	02/19	\$50,000
	EEO Advice	216041	12/23	\$200,000 <u>\$250,000</u>
Lieff Cabraser Heimann & Bernstein, LLP	PFAS Multi-District Litigation	216048	03/24	\$200,000
Manatt, Phelps & Phillips	SDCWA v. MWD rate litigation	146627	06/16	\$4,400,000
	Raftelis-Subcontractor of Manatt, Agr. #146627: Per 5/2/22 Engagement Letter between Manatt and Raftelis, MWD paid Raftelis Financial Consultants, Inc.	Invoice No. 23949		\$56,376.64 for expert services & reimbursable expenses in SDCWA v. MWD
Marten Law LLP	PFAS Multi-District Litigation	216034	09/23	\$550,000
	PFAS-Related Issues (PWSC)	220414	08/24	\$100,000
	Perris Valley Pipeline Project	220415	07/24	\$100,000
	PFAS-Related Issues (General)	220413	10/24	\$50,000
Meyers Nave Riback Silver & Wilson	Pure Water Southern California	207967	11/22	\$100,000
Miller Barondess, LLP	SDCWA v. MWD	138006	12/14	\$600,000
Morgan, Lewis & Bockius	SDCWA v. MWD	110226	07/10	\$8,750,000
DOCKIUS	Project Labor Agreements	200476	04/21	\$100,000
Musick, Peeler & Garrett LLP	Colorado River Aqueduct Electric Cables Repair/Contractor Claims	193461	11/20	\$3,250,000
	Arvin-Edison v. Dow Chemical	203452	01/22	\$150,000
	Semitropic TCP Litigation	207954	09/22	\$75,000
	Employment Matter	216063	06/24	\$100,000
	Employment Matter	220417	08/24	\$100,000



Firm Name	Matter Name	Agreement No.	Effective Date	Contract Maximum
Nixon Peabody LLP*	Bond Counsel [re-opened]	193473	07/21	N/A
	Special Finance Project	207960	10/22	\$50,000
	Bond Counsel	220404	07/24	N/A
Norton Rose Fulbright US LLP*	Bond Counsel	200466	07/21	N/A
	Bond Counsel	220407	7/24	N/A
Olson Remcho LLP	Government Law	131968	07/14	\$400,000 <u>\$600,000</u>
	Executive Committee/Ad Hoc Committees Advice	207947	08/22	\$60,000
	Advice/Assistance re Proposition 26/Election Issues	211922	05/23	\$100,000
Robert P. Ottilie	Employment Matter	220403	09/24	\$100,000
Pearlman, Brown & Wax, L.L.P.	Workers' Compensation	216037	10/23	\$100,000
Procopio, Cory, Hargreaves & Savitch, LLP	CityWatch Los Angeles Public Records Act Request	216046	02/24	\$75,000
	Public Records Act Requests	220399	7/24	\$75,000
Renne Public Law Group, LLP	ACE v. MWD (PERB Case No. LA-CE-1574-M)	203466	05/22	\$100,000
	ACE v. MWD (PERB Case No. LA-CE-1611-M)	207962	10/22	\$50,000
	Employee Relations and Personnel Matters	216045	01/24	\$50,000
	ACE v. MWD (PERB Case No. LA-CE-1729-M)	220421	09/24	\$35,000
	AFSCME v. MWD (PERB Case No. LA-CE-1733-M)	220422	09/24	\$35,000
	AFSCME v. MWD (PERB Case No. LA-CE-1738-M)	220425	10/24	\$35,000



Firm Name	Matter Name	Agreement No.	Effective Date	Contract Maximum
	SAMWD v. MWD (PERB Case No. LA-CE-1745-M)	<u>220527</u>	<u>11/24</u>	<u>\$35,000</u>
	AFSCME v. MWD (PERB Case No. LA-CE-1746-M)	<u>222528</u>	<u>11/24</u>	<u>\$35,000</u>
<u>Melanie Ross Law</u> <u>P.C.</u>	<u>Tiegs v. MWD</u>	<u>222535</u>	<u>01/25</u>	<u>\$25,000</u>
Ryan & Associates	Leasing Issues	43714	06/01	\$200,000
	Oswalt v. MWD	211925	05/23	\$100,000
	Unlawful Encroachment on Metropolitan Rights-of-Way	216065	06/24	\$100,000
Seyfarth Shaw LLP	Claim (Contract #201897)	201897 11/04/21		\$350,000
	Claim (Contract #203436)	203436	11/15/21	\$350,000
	Claim (Contract #203454)	203454	01/22	\$210,000
	Reese v. MWD	207952	11/22	\$750,000 <u>\$900,000</u>
	General Labor/Employment Advice	211917	3/23	\$250,000
	Civil Rights Department Complaint	211931	07/23	\$100,000
	Crawford v. MWD	216035	09/23	\$525,000
	Tiegs v. MWD	216043	12/23	\$525,000
	Zarate v. MWD	216044	01/24	\$250,000
Shaw Law Group, PC	Administrative Investigation	222531	12/24	\$30,000
Sheppard Mullin Richter & Hampton	Lorentzen v. MWD	216036	09/23	\$250,000
LLP	Iverson v. MWD	<u>222532</u>	<u>12/24</u>	<u>\$100,000</u>
Stradling Yocca Carlson & Rauth*	Bond Counsel	200471	07/21	N/A
	Bond Counsel	220408	7/24	N/A



Firm Name	Matter Name	Agreement No.	Effective Date	Contract Maximum	
The Myers Law Group, APC	Employment Matter	220420	11/24	\$100,000	
Theodora Oringher PC	Construction Contracts - General Conditions Update	185896	07/20	\$100,000	
Thompson Coburn LLP	NERC Energy Reliability Standards	193451	08/20	\$300,000	
Van Ness Feldman, LLP	General Litigation	170704	07/18	\$50,000	
	Colorado River MSHCP	180191	01/19	\$50,000	
	Bay-Delta and State Water Project Environmental Compliance	193457	10/15/20	\$50,000	
	Colorado River Issues	211924	05/23	\$250,000	

*Expenditures paid by Bond Proceeds/Finance **Expenditures paid by another group



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Report

Office of the General Auditor

• General Auditor's Report for February 2025

Summary

This report highlights significant activities of the Office of the General Auditor for the month ended February 28, 2025.

Purpose

Informational

Attachments

None

Detailed Report

Audit & Advisory Projects

Twenty-eight projects are in progress:

- Ten audit projects are in the report preparation phase.
 - Two draft reports were issued this month:
 - Contract Audit: Sensis, Inc.; management response is due 3/20/2025
 - Operational Audit: Fallowed Land; management response is due 3/27/2025
 - Two management responses are greater than 30 days past due:
 - Operational Audit: Employee Tuition Reimbursement (was due 1/24/2025)
 - Cybersecurity Audit: Inventory & Control of IT Assets (was due 1/24/2025)
- Eighteen projects are in the execution phase, including nine audits and nine advisories.

Work priority is being given to the nine carryforward audits; draft reports have been issued for two of these.

Follow-Up Reviews

Nine audits are in the follow-up phase:

- Seven follow-up reviews are in progress.
- Two follow-up reviews are in planning.

One follow-up form was received on-time, one form previously reported as overdue was received, and one form is greater than 30 days past due: Kennedy Jenks Consultants, Inc. (was due 12/2/2024).

Other General Auditor Activities

1. Global Internal Audit Standards

Evaluation and adoption of the updated standards issued by the Institute of Internal Auditors, effective January 9, 2025, is in progress. One component of the new standards applicable to the Board, Domain III: Governing the Internal Audit Function, will be presented as an information item at the April meeting of the Audit Committee.

2. Internal Quality Assessment

Results of the annual Internal Quality Assessment will be presented at the March meeting of the Audit Committee.

3. Annual Risk Assessment

The General Auditor's risk assessment methodology is being refreshed and will be presented at the April meeting of the Audit Committee. Board input on risk areas and internal control concerns will be solicited.

4. Annual Audit Plan

Planning is underway for next fiscal year's audit plan including meetings with Metropolitan senior management. We expect to present the FY 2025/26 audit plan for Board approval at the June meetings of the Audit Committee and Board of Directors.

5. Department Head Collaboration

The General Auditor is participating with the General Manager, General Counsel, and Ethics Officer in facilitated workshops.

6. Senior Audit Manager Recruitment

Collaboration with Human Resources continues to fill this critical position.





Monthly Report February 2025

EDUCATION Program

Ethics Education staff presented an Ethics Office overview at new employee orientations hosted by Human Resources, held a training session for a new Form 700 filer, and attended two Fair Political Practices Commission trainings: Form 700 (SEI) Filers and Form 700 (SEI) Filing Officer.

Education staff met with Human Resources, Information Technology, the Professional Services Contracting Team, and Diversity, Equity and Inclusion staff for feedback and subject matter expertise related to the development of ethics education materials. Staff also refined the new employee orientation ethics presentation.

COMPLIANCE Program

Form 700/Filing Officer Duties – Pursuant to state law and the Administrative Code, Compliance staff assisted directors and employees with their Annual, Assuming Office, and Leaving Office Form 700 filings. Assistance included troubleshooting the electronic filing system, and notifications of deadlines. Staff also evaluated which new Metropolitan positions must file Form 700 and the appropriate level of disclosure for each position.

AB 1234 compliance – Managed AB 1234 state ethics training compliance for Metropolitan. As of February 21, 2025, 84% of Metropolitan officials required to take ethics training have complied with the state requirement. Eleven have not completed the training. Staff will continue efforts to seek 100% compliance.

Staff also assisted on 71 compliance-related matters for Metropolitan Directors and staff.

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ADVICE Program

Advice staff addressed 27 time-sensitive advice requests for directors and employees related to the following ethics laws and policies: conflicts of interest, financial disclosure, gifts, and other ethics-related topics. Examples of advice requested includes:

- Whether officials must disclose their ETFs, personal residence, outside income, spouse's income, and other interests on Form 700.
- Whether the ban on gifts from restricted sources prohibits a Metropolitan vendor's gift card emailed to employees and a consultant project manager's gifts left on an employee's desk.
- Whether an outside association's offer to pay for an employee's travel to a attend an association meeting is an impermissible excess gift, needs to be reported on Form 700, is subject to the ban on gifts from restricted sources, or raises other ethics concerns.
- Whether an official's recent sale of stock in a company affects their ability to participate in future Metropolitan matters involving that company.

Staff also helped identify and advise on potential conflicts of interest in upcoming Committee and Board agenda items; requested formal advice from the Fair Political Practices Commission, on behalf of an employee, on interpreting an exception to the state's definition of "gift"; and provided guidance on Metropolitan's hiring process and a proposed joint event with a non-profit organization to avoid the appearance of impropriety.

INVESTIGATION Program

Complaints – The Ethics Office received five new complaints involving the following allegations:

- Misuse of authority by managers for personal gain.
- Misuse of authority by a manager to disadvantage an employee.
- Inappropriate management directive regarding contract language.
- Concern regarding mandatory payoll deductions.
- Illegal dumping and vandalism at a Metropolitan field property.

Open Complaints and Investigations – As of February 28, 2025, the Investigations Program is managing a total of 14 open complaints and one open ethics investigation.

SNAPSHOT for February 2025	
Advice Matters 27	Pending Complaints 14
Compliance Assistance 71	Investigations Opened O
New Complaints Received 5	Pending Investigations 1

Mission

The Ethics Office promotes the highest standards of government integrity to support Metropolitan's mission through an independent and comprehensive program that enhances trust, transparency, and accountability for the benefit of the workforce and the public it serves.

Vision

Our vision is to be a leader in governmental ethics with an unparalleled commitment to supporting an ethical organizational culture.

MINUTES

SPECIAL JOINT MEETING OF THE

EXECUTIVE COMMITTEE AND BOARD OF DIRECTORS

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

January 21 and 23, 2025

53923 The Executive Committee and Board of Directors of The Metropolitan Water District of Southern California met in a special session on Tuesday, January 21, 2025.

Chair Ortega called the meeting to order at 8:33 a.m.

Director Kassakhian stated that he is using AB 2449 just cause for illness.

Director Lefevre stated that he is using AB 2449 just cause caretaker.

53924 Board Secretary Fong-Sakai administered the roll call. Those responding present were: Directors Alvarez, Armstrong (teleconference posted location available for the public), Bryant, Camacho, Cordero, Dennstedt, Fellow, Fong-Sakai, Garza, Gold, Goldberg, Jung (teleconference posted location available for the public), Kassakhian (AB2449-Just Cause), Kurtz, Lefevre (AB2449-Just Cause), Lewitt, Luna, McCoy, Ortega, and Sutley.

Board Secretary Fong-Sakai declared a quorum present.

Director Dick stated that he is using AB 2449 just cause for illness.

Director Petersen stated that he is using AB 2449 just cause for illness.

Directors entered the meeting after the roll call: Directors Ackerman, De Jesus, Dick (AB2449 – Just Cause), Erdman, Gray, McMillan, Miller, Petersen (AB2449-Just Cause), Phan (teleconference posted location available for the public), Pressman, Quinn, Ramos, and Seckel.

Those not responding were: Directors Crawford, Douglas, Faessel, Katz, Morris, and Phan.

53925 Chair Ortega invited members of the public to address the limited to the items listed on the agenda (in-person and via teleconference).

	Name	Affiliation	Comment
1.	Adel Hagekhalil	Metropolitan Employee	Items 6a-b and 7a-c
2.	Kerry Garvis Wright	Attorney at Glaser Weil	Items 6a-b and 7a-c

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January 21 and 23, 2025

3.	Darcy Burke	Watermark Associates	Items 6a-b and 7a-c
4.	Emilio Cruz	EP Consultants	Items 6a-b and 7a-c
5.	Bruce Reznick	LA Waterkeeper	Items 6a-b and 7a-c
6.	Aaron Harris	City of LA Dept Public Works	Items 6a-b and 7a-c
7.	Connor Everts	Environmental Justice Coalition for Water and the Statewide Environmental Water Caucus	Items 6a-b and 7a-c
8.	Seyla Te	City of LA Watershed Protection Division	Items 6a-b and 7a-c
9.	Eric Lee	City of LA Dept of Public Works	Items 6a-b and 7a-c
10.	Andy Lipkis	Accelerate Resilience LA	Items 6a-b and 7a-c
11.	John Popoch	Deputy Chief of Staff, Office of LA City Councilmember Bob Blumenfield	Items 6a-b and 7a-c
12.	David Gironn	City of LA	Items 6a-b and 7a-c
13.	Paul Koretz	Former Council Member City of LA	Items 6a-b and 7a-c
14.	Lauren Ahkiam	LAANE	Items 6a-b and 7a-c
15.	Hans Johnson	East Area Progressive Democrats	Items 6a-b and 7a-c
16.	Rickita Hudson	Metropolitan Employee	Items 6a-b and 7a-c
17.	Evelyn Windle	We Tap	Items 6a-b and 7a-c
18.	Belén Bernal	Executive Director, Nature of All	Items 6a-b and 7a-c
19.	Penelope Lapom	California citizen	Items 6a-b and 7a-c
20.	Jonesy	Metropolitan Employee	Items 6a-b and 7a-c
21.	Mark Morandi	Metropolitan Employee	Items 6a-b and 7a-c
22.	Barbara Barrigan	Executive Director, Restore	Items 6a-b and 7a-c

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		the Delta	
23.	Audie Liberman	Resident	Items 6a-b and 7a-c
24.	Alan Shanahan	AFSCME President	Items 6a-b and 7a-c
25.	Nancy Blastos	Environmentalist	Items 6a-b and 7a-c
26.	Neil Desai	National Parks Conservation Association	Items 6a-b and 7a-c
27.	Trish Gonzales	Former Metropolitan Employee	Items 6a-b and 7a-c
28.	Ruben Lopez		Items 6a-b and 7a-c
29.	Marcia Smith		Items 6a-b and 7a-c
30.	Sally Garcia	Resident City of LA	Items 6a-b and 7a-c
31.	Lenice Marrero	Environmental Engineer, City of LA	Items 6a-b and 7a-c
32.	Caty Wagner	Sierra Club	Items 6a-b and 7a-c
33.	Conrad Villa	Metropolitan Employee	Items 6a-b and 7a-c
34.	Chris Moreno	Program Manager, Shingle Springs, Miwok Indians	Items 6a-b and 7a-c
35.	Amir Shabik	League Director, Care LA	Items 6a-b and 7a-c
36.	John Virsalovich	Metropolitan Employee	Items 6a-b and 7a-c
37.	Wesley Chung	Rate Payer	Items 6a-b and 7a-c
38.	Matt Ortega	Metropolitan Employee	Items 6a-b and 7a-c
39.	Oscar Yanez	Metropolitan Employee	Items 6a-b and 7a-c
40.	Charlie Jackson	Metropolitan Employee	Items 6a-b and 7a-c
41.	John Munson	Sierra Club	Items 6a-b and 7a-c
42.	Daniel Rodriquez	AFSCME Union Member	Items 6a-b and 7a-c
43.	Dan Silver	Resident	Items 6a-b and 7a-c
44.	Jan Warren	Advocate Clean Water Contra Costa County	Items 6a-b and 7a-c

45.	Brandy Vanderjack	Metropolitan Employee	Items 6a-b and 7a-c
46.	Lauren Saber O'Connor	Former Chief Sustainability City of LA	Items 6a-b and 7a-c
47.	Caty Wagner	Reading Comments for Ellen Mackey Metropolitan Employee	Items 6a-b and 7a-c

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Directors Ackerman, Dick (AB2449 – Just Cause), Erdman, Gray, McMillan, Miller, Petersen (AB2449-Just Cause), Pressman, Quinn, Ramos, and Seckel entered the meeting.

Chair Ortega made a statement on the status of General Manager Hagekhalil.

EXECUTIVE COMMITTEE ITEMS

5. CONSENT CALENDAR OTHER ITEMS – ACTION

A. Approve the draft of the Committee and Board meeting agendas and schedule for February 2025.

Chair Ortega asked if there were any additions or deletions to the February 2025 draft packet. No comments were made.

Chair Ortega called for the vote on Item 5A.

Director Camacho made a motion, seconded by Director Garza, to approve the consent calendar Item 5A as listed.

The vote was:

- Ayes: Directors Armstrong, Camacho, Cordero, Erdman, Fong-Sakai, Garza, Goldberg, Gray, Jung, Luna, McCoy, Ortega, Pressman, Quinn, and Sutley.
- Abstention: None
- Recusal: None
- Absent: De Jesus

The motion for Items 5A passed by a vote of 15 ayes; 0 noes; 0 abstention; and 1 absent.

SPECIAL EXECUTIVE AND BOARD OF DIRECTOR ITEMS

INFORMATION ITEMS

The following Director(s) asked questions or made comments:

Director(s)

1. Gold

Chair Ortega called the meeting into closed session to discuss Agenda Items 6a, 6b, 7a, 7b, and 7c.

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53926 Review and report on five completed investigations involving the General Manager, which include allegations of Equal Employment Opportunity policy and Ethics Policy violations by the General Manager [Public employee performance evaluation: General Manager, to be heard in closed session pursuant to Gov. Code Section 54957]. (Agenda Item 6a)

53927 Report on two claims presented involving the General Manager and a pending investigation regarding one of the claims [Conference with legal counsel— anticipated litigation; based on existing facts and circumstances of receipt of claims pursuant to the Government Claims Act (Gov't Code § 910 et seq.) on behalf of two individuals threatening litigation, there is significant exposure to litigation against Metropolitan; two potential cases; to be heard in closed session pursuant to Gov. Code Section 54956.9(d)(2)]. (Agenda Item 6b)

ACTION ITEMS

53928 Consider action regarding General Manager's paid administrative leave status [Public employee performance evaluation: General Manager, to be heard in closed session pursuant to Gov. Code Section 54957]. (Agenda Item 7a)

53929 General Manager Performance Evaluation [Public employee performance evaluation: General Manager, to be heard in closed session pursuant to Gov. Code Section 54957]. (Agenda Item 7b)

53930 Public Employee Discipline/Dismissal/Release [To be heard in closed session pursuant to Gov. Code Section 54957]. (Agenda Item 7c)

The Board returned to open session. Chair Ortega called on Assistant General Counsel Torres to report on the closed session.

Mr. Torres reported that no action was taken in closed session on Items 6a, 6b, 7b, and 7c. On Item 7a the Board voted to extend administrative leave for General Manager until January 23, 2025, and to continue the Joint Special Executive Committee and Board of Directors Meeting until January 23, 2025.

53931 Chair Ortega announced that the meeting will be adjourned until January 23, 2025.

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SPECIAL EXECUTIVE AND BOARD OF DIRECTOR ITEMS ADJOURNED MEETING- CONTINUATION OF THE JANUARY 21, 2025 MEETING

53932 The Executive Committee and Board of Directors of The Metropolitan Water District of Southern California met in an adjourned special session on Thursday, January 23, 2025.

Chair Ortega called the meeting to order at 9:05 a.m.

Director Kassakhian stated that he is using AB 2449 just cause for illness.

Director Petersen stated that he is using AB 2449 just cause for illness.

Director Faessel stated that he is using AB 2449 just cause for caretaker.

Director Dick stated that he is using AB 2449 just cause for illness.

53933 Board Executive Secretary Hudson administered the roll call. Those responding present were: Directors Ackerman (teleconference posted location available for the public), Armstrong (teleconference posted location available for the public), Bryant, Camacho, Cordero (teleconference posted location available for the public), Crawford, De Jesus (teleconference posted location available for the public), Dennstedt, Erdman, Faessel (teleconference posted location available for the public), Fellow, Garza, Gold, Goldberg, Gray (teleconference posted location available for the public), Jung (teleconference posted location available for the public), Jung (teleconference posted location available for the public), Jung (teleconference posted location available for the public), McMillan, Ortega, Petersen, Pressman (teleconference posted location available for the public), Quinn, Ramos, and Sutley.

Board Executive Secretary Hudson declared a quorum present.

Directors entered the meeting after the roll call: Directors Dick (AB2449- Just Cause) and Fong-Sakai (teleconference posted location available for the public), Miller (teleconference posted location available for the public), and Phan (teleconference posted location available for the public).

Those not responding were: Directors Alvarez, Douglas, Katz, Morris, and Seckel.

Chair Ortega called the meeting into closed session to discuss Agenda Items 6a, 6b, 7a, 7b, and 7c.

53926 Review and report on five completed investigations involving the General Manager, which include allegations of Equal Employment Opportunity policy and Ethics Policy violations by the General Manager [Public employee performance evaluation:

General Manager, to be heard in closed session pursuant to Gov. Code Section 54957]. (Agenda Item 6a)

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53927 Report on two claims presented involving the General Manager and a pending investigation regarding one of the claims [Conference with legal counsel— anticipated litigation; based on existing facts and circumstances of receipt of claims pursuant to the Government Claims Act (Gov't Code § 910 et seq.) on behalf of two individuals threatening litigation, there is significant exposure to litigation against Metropolitan; two potential cases; to be heard in closed session pursuant to Gov. Code Section 54956.9(d)(2)]. (Agenda Item 6b)

ACTION ITEMS

53928 Consider action regarding General Manager's paid administrative leave status [Public employee performance evaluation: General Manager, to be heard in closed session pursuant to Gov. Code Section 54957]. (Agenda Item 7a)

53929 General Manager Performance Evaluation [Public employee performance evaluation: General Manager, to be heard in closed session pursuant to Gov. Code Section 54957]. (Agenda Item 7b)

53930 Public Employee Discipline/Dismissal/Release [To be heard in closed session pursuant to Gov. Code Section 54957]. (Agenda Item 7c)

The Board returned to open session in closed session. Chair Ortega called on Assistant General Counsel Torres to report on the closed session.

Mr. Torres reported that no action was taken in closed session on Items 6a, 6b, 7b, and 7c. Item 7a the Board voted to extend administrative leave for General Manager until the next board meeting.

53934 Chair Ortega asked if there were any Follow-up Items. There were none.

53935 Chair Ortega asked if there were any Future Agenda Items.

Director McMillian left the meeting.

53936 There being no objection, the meeting was adjourned at 11:31 a.m.

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Rickita C. Hudson

RICKITA HUDSON BOARD EXECUTIVE SECRETARY

ADÁN ORTEGĂ, JR. CHAIR OF THE BOARD

MINUTES

SPECIAL JOINT MEETING OF THE

EXECUTIVE COMMITTEE AND BOARD OF DIRECTORS

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

January 29, 2025

53937 The Executive Committee and Board of Directors of The Metropolitan Water District of Southern California met in a special session on Wednesday, January 29, 2025.

Chair Ortega called the meeting to order at 9:00 a.m.

Director Kassakhian stated that he is using AB 2449 just cause for illness.

53938 Board Secretary Fong-Sakai administered the roll call. Those responding present were: Directors Ackerman, Alvarez, Armstrong (teleconference posted location available for the public), Bryant, Camacho, Crawford, De Jesus (teleconference posted location available for the public), Dennstedt (teleconference posted location available for the public), Dick, Erdman, Faessel (teleconference posted location available for the public), Fellow, Fong-Sakai (teleconference posted location available for the public), Garza, Gold, Goldberg, Gray (teleconference posted location available for the public), Jung (teleconference posted location available for the public), Katz (teleconference posted location available for the public), Kurtz, Lefevre (teleconference posted location available for the public), Luna, McCoy, McMillan, Miller (teleconference posted location available for the public), Ortega, Phan (teleconference posted location available for the public), Quinn, Seckel, and Sutley.

Board Secretary Fong-Sakai declared a quorum present.

Directors entered the meeting after the roll call: Directors Petersen and Ramos (AB2449).

Those not responding were: Directors Cordero, Douglas, and Morris.

53939 Chair Ortega invited members of the public to address the limited to the items listed on the agenda (in-person and via teleconference).

	Name	Affiliation	Comment
1.	Connor Everts	Environmental Justice Coalition for Water and the Statewide Environmental Water Caucus	Items 5a-b and 6a-f

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January 29, 2025

2.	Charming Evelyn	Sierra Club	Items 5a-b and 6a-f
3.	Dawn Collins	Collins Kim, Attorney for Katano Kasaine	Items 5a-b and 6a-f
4.	Marty Adams		Items 5a-b and 6a-f
5.	John Scott	Former Metropolitan Employee	Items 5a-b and 6a-f
6.	Jonesy	Metropolitan Employee	Items 5a-b and 6a-f
7.	Neal Desai	National Parks Conservation Association	Items 5a-b and 6a-f
8.	Kaylin Martin	Journalist CD Strategies	Items 5a-b and 6a-f
9.	Rita Robinson	Former Director City of LA Bureau of Sanitation and Former Deputy CEO	Items 5a-b and 6a-f
10.	Marie Ramset	Monica Rodriquez, City Councilwoman	Items 5a-b and 6a-f
11.	Ellen Mackey	Metropolitan Employee	Items 6a-b and 7a-c
12.	Katano Kasaine	Metropolitan Employee	Items 6a-b and 7a-c
13.	Howard Wong	Public Service Employee	Items 6a-b and 7a-c
14.	Hans Johnson	President East Area Progressive Democrats	Items 6a-b and 7a-c
15.	Maura Monagan	LA Waterkeeper	Items 6a-b and 7a-c
16.	David Hiron	Council President Pro Team Bob Blumenfield	Items 6a-b and 7a-c
17.	Caty Wagner	Sierra Club	Items 6a-b and 7a-c
18.	Daniel Rodriquez		Items 6a-b and 7a-c
19.	Lane Fijou	Delta Resident	Items 6a-b and 7a-c
20.	Darren Reese		Items 6a-b and 7a-c

Director Ramos stated that she is using AB 2449 just cause for medical condition.

Directors Petersen and Ramos entered the meeting.

Chair Ortega made a statement on the status of General Manager Hagekhalil.

INFORMATION ITEMS

Chair Ortega called the meeting into closed session to discuss Agenda Items 5a, 5b, 6a, 6b, 6c, 6d, 6e, and 6f.

Review and report on five completed investigations involving the General Manager, which include allegations of Equal Employment Opportunity policy and Ethics Policy violations by the General Manager [Public employee performance evaluation: General Manager, to be heard in closed session pursuant to Gov. Code Section 54957]. (Agenda Item 5a)

Report on two claims presented involving the General Manager and a pending investigation regarding one of the claims [Conference with legal counsel — anticipated litigation; based on existing facts and circumstances of receipt of claims pursuant to the Government Claims Act (Gov. Code Section 910 et seq.) on behalf of two individuals threatening litigation, there is significant exposure to litigation against Metropolitan; two potential cases; to be heard in closed session pursuant to Gov. Code Section 54956.9(d)(2)]. (Agenda Item 5b)

ACTION ITEMS

Consider action regarding General Manager's paid administrative leave status [Public employee performance evaluation: General Manager, to be heard in closed session pursuant to Gov. Code Section 54957]. (Agenda Item 6a)

General Manager Performance Evaluation [Public employee performance evaluation: General Manager, to be heard in closed session pursuant to Gov. Code Section 54957]. (Agenda Item 6b)

Public Employee Discipline/Dismissal/Release [To be heard in closed session pursuant to Gov. Code Section 54957]. (Agenda Item 6c)

Consider potential settlement terms; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA [Conference with legal counsel regarding anticipated litigation based on existing facts and circumstances, including receipt of a correspondence threatening litigation, there is significant exposure to litigation against Metropolitan: one potential case; to be heard in closed session pursuant to Gov. Code Section 54956.9(d)(2)]. (Agenda Item 6d)

Ratification of separation agreement with the General Manager; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA. (Agenda Item 6e)

Public Employee Appointment for General Manager [To be heard in closed session pursuant to Gov. Code Section 54957]. (Agenda Item 6f)

The Board returned to open session. Chair Ortega called on Assistant General Counsel Torres to report on the closed session.

4

Mr. Torres reported that no action was taken in closed session on Items 5a, 5b, 6a, 6b, and 6e.

Items 6c and 6d, the Board of Directors voted, by roll call vote, to direct the Chair to present terms of a Last, Best, and Final Offer to the General Manager and to authorize the Chair if the offer is not accepted by 4 pm today to release the General Manager from his employment agreement without cause effective upon written notice.

Record of Vote on Item:	6c & 6d				Yee		NA		Abotoin
Member Agency	Total Votes	Director	Present	Yes	Yes Vote	No	No Vote	Abstain	Abstain Vote
Anaheim		Faessel	x	x	6306		10.0	, wortain	1010
Beverly Hills		Pressman	x	x	4677				
Burbank	-	Ramos	X	x	3330				
Calleguas Municipal Water District		McMillan	X	x	13627				
Central Basin Municipal Water District		Garza	х	х	10133				
•		Crawford	х	х	10133				
			Subtotal:		20265				
Compton	678	McCoy	х	х	678				
Eastern Municipal Water District	13623	Armstrong	х	х	13623				
Foothill Municipal Water District	2543	Bryant	х	х	2543				
Fullerton		Jung	х			х	2766		
Glendale	4165	Kassakhian	х			х	4165		
Inland Empire Utilities Agency	17103	Camacho	х	х	17103				
Las Virgenes	3224	Lewitt	х	х	3224				
Long Beach	6805	Cordero							
Los Angeles	83835	Sutley	х			х	20959		
		Petersen	х	х	20959				
		Quinn	х			х	20959		
		Luna	х	х	20959				
		Douglas							
			Subtotal:		41918		41918		
Municipal Water Dist. of Orange County	68102	Ackerman	х	х	17026				
		Seckel	х	х	17026				
		Dick	х	х	17026				
		Erdman	х	х	17026				
			Subtotal:		68102				
Pasadena		Kurtz	Х	х	4042				
San Diego County Water Authority	70158	Fong-Sakai							
		Goldberg	Х	х	23386				
		Miller	х	х	23386				
		Katz	х	х	23386				
			Subtotal:		70158				
San Fernando		Ortega	х	х	274				
San Marino		Morris							
Santa Ana		Phan	х			х	3569		
Santa Monica		Gold	х			х	5055		
Three Valleys Municipal Water District		De Jesus	х	х	9019				
Torrance		Lefevre							
Upper San Gabriel Valley Mun. Wat. Dist.		Fellow	х	х	14079				
West Basin Municipal Water District	28764	Alvarez	х	х	14382				
		Gray	х	х	14382				
			Subtotal:		28764				
Western Municipal Water District		Dennstedt	х	х	15689				
Total	406315				337421		57473		
Present and not voting					 				
Absent	11422								

The following is a record of the vote:

The motion to approve Items 6c and 6d (**M.I. NO. 53944 and 53945**) passed by a vote of 337,421 ayes; 57,473 noes; 0 abstain; 0 not voting; and 11,422 absent.

Item 6f, the Board of Directors voted to appoint Deven Upadhyay as General Manager effective immediately and to direct the Chair to negotiate terms of an employment agreement to bring back to the Board for approval.

Record of Vote on Item:	6f								
Member Agency	Total Votes	Director	Present	Yes	Yes Vote	No	No Vote	Abstain	Abstain Vote
Anaheim		Faessel	X	X	6306	-			
Beverly Hills	4677	Pressman	X	x	4677				
Burbank		Ramos	х	х	3330				
Calleguas Municipal Water District	13627	McMillan	х	х	13627				
Central Basin Municipal Water District	20265	Garza	х	х	10133				
		Crawford	х	х	10133				
			Subtotal:		20265				
Compton	678	McCoy	х	х	678				
Eastern Municipal Water District	13623	Armstrong	х	х	13623				
Foothill Municipal Water District	2543	Bryant	х	х	2543				
Fullerton		Jung							
Glendale		Kassakhian	х	х	4165				
Inland Empire Utilities Agency	17103	Camacho	х	х	17103		1		
Las Virgenes	3224	Lewitt	х	х	3224				
Long Beach	6805	Cordero							
Los Angeles	83835	Sutley	х	х	20959				
		Petersen	х	х	20959				
		Quinn	х	х	20959				
		Luna	х	х	20959				
		Douglas							
			Subtotal:		83835				
Municipal Water Dist. of Orange County	68102	Ackerman	х	х	17026				
		Seckel	х	х	17026				
		Dick	х	х	17026				
		Erdman	х	х	17026				
			Subtotal:		68102				
Pasadena	4042	Kurtz	Х	х	4042				
San Diego County Water Authority	70158	Fong-Sakai							
		Goldberg	Х	х	23386				
		Miller	Х	х	23386				
		Katz	Х	х	23386				
			Subtotal:		70158				
San Fernando	274	Ortega	х	х	274				
San Marino	836	Morris							
Santa Ana	3569	Phan	Х	х	3569				
Santa Monica	5055	Gold	Х	х	5055				
Three Valleys Municipal Water District	9019	De Jesus	х	х	9019				
Torrance		Lefevre							
Upper San Gabriel Valley Mun. Wat. Dist	14079	Fellow							
West Basin Municipal Water District	28764	Alvarez	Х	х	14382				
	<u> </u>	Gray	Х	х	14382				
			Subtotal:		28764				
Western Municipal Water District	15689	Dennstedt	Х	х	15689				
Total	406315				378048				
Present and not voting	L								
Absent	28267								

The following is a record of the vote:

The motion to approve Item 6f (**M.I. NO. 53947**) passed by a vote of 378,048 ayes; 0 noes; 0 abstain; 0 not voting; and 28,267 absent.

Chair Ortega called on the General Manager Upadhyay. General Manager Upadhyay made comments.

53948 Chair Ortega asked if there were any Follow-Up Items.

The following Director(s) asked questions or made comments:

Director(s)

1. Gold

53949 Chair Ortega asked if there were any Future Agenda Items. Chair Ortega requested that Director Gold follow up with him regarding the summary of actions on workplace climate.

53950 There being no objection, the meeting was adjourned at 1:53 p.m.

LOIS FONG-SAKAI BOARD SECRETARY

ADÁN ORTEGĂ, JR. CHAIR OF THE BOARD

RESOLUTION NO. XXXX

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA PLACING IN NOMINATION JACQUE MCMILLAN AS A MEMBER OF THE ASSOCIATION OF CALIFORNIA WATER AGENCIES REGION 8 BOARD MEMBER

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA AS FOLLOWS:

WHEREAS, the Board of Directors (Board) of The Metropolitan Water District of Southern California (Metropolitan) does encourage and support the participation of its members in the affairs of the Association Of California Water Agencies (ACWA);

WHEREAS, Jacque McMillan has indicated a desire to serve as a board member of ACWA Region 8;

THEREFORE, BE IT RESOLVED that the Board, place its full and unreserved support in the nomination of Jacque McMillan for the position of board member of ACWA Region 8,

AND;

BE IT FURTHER RESOLVED that the expenses attendant with the service of Jacque McMillan in ACWA Region 8 shall be borne by Metropolitan.

I HEREBY CERTIFY that the foregoing is a full, true, and correct copy of a resolution adopted by the Board of Directors of The Metropolitan Water District of Southern California at its meeting held March 11, 2025.

Secretary of the Board of Directors of The Metropolitan Water District of Southern California

RESOLUTION NO. 9371

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA PLACING IN NOMINATION JACQUE MCMILLAN AS A MEMBER OF THE ASSOCIATION OF CALIFORNIA WATER AGENCIES REGION 8 BOARD MEMBER

BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA AS FOLLOWS:

WHEREAS, the Board of Directors (Board) of The Metropolitan Water District of Southern California (Metropolitan) does encourage and support the participation of its members in the affairs of the Association Of California Water Agencies (ACWA);

WHEREAS, Jacque McMillan has indicated a desire to serve as a board member of ACWA Region 8;

THEREFORE, BE IT RESOLVED that the Board, place its full and unreserved support in the nomination of Jacque McMillan for the position of board member of ACWA Region 8,

AND;

BE IT FURTHER RESOLVED that the expenses attendant with the service of Jacque McMillan in ACWA Region 8 shall be borne by Metropolitan.

I HEREBY CERTIFY that the foregoing is a full, true, and correct copy of a resolution adopted by the Board of Directors of The Metropolitan Water District of Southern California at its meeting held March 11, 2025.

Jois Forg - Sat

Secretary of the **B**oard of Directors of The Metropolitan Water District of Southern California



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Action

7-1

Board of Directors Engineering, Operations, and Technology Committee

3/11/2025 Board Meeting

Subject

Award a \$407,740.66 procurement contract to Ireland Inc. (dba Core-Rosion Products) to furnish two sodium hypochlorite tanks for the Copper Basin Reservoir; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

The Copper Basin Reservoir has two 15,000-gallon fiberglass-reinforced plastic (FRP) tanks that store and continuously dispense sodium hypochlorite as part of a system to protect the Colorado River Aqueduct (CRA) system from quagga mussel infestation. Recent inspections of the tanks revealed significant degradation of the interior corrosion barrier in each tank. Failure of the tanks would disrupt the chlorination process, jeopardize quagga mussel control, and potentially disrupt CRA operations. Staff recommends award of the tank procurement contract at this time.

This action awards a \$407,740.66 procurement contract to Ireland Inc. (dba Core-Rosion Products) to furnish two 15,000-gallon FRP tanks for the Copper Basin Reservoir. See Attachment 1 for the Allocation of Funds, Attachment 2 for the Abstract of Bids, and Attachment 3 for the Location Map.

Proposed Action(s)/Recommendation(s) and Options

Staff Recommendation: Option #1

Option #1

Award a \$407,740.66 procurement contract to Ireland Inc. dba Core-Rosion Products to furnish two 15,000-gallon fiberglass-reinforced tanks for the Copper Basin Reservoir.

Fiscal Impact: Expenditure of \$590,000 in capital funds. All costs will be incurred in the current biennium and have been previously authorized.

Business Analysis: This option will enhance the reliability of the Colorado River Aqueduct and protect the system from quagga mussel infestation.

Option #2

Do not proceed with the project at this time.

Fiscal Impact: None

Business Analysis: This option would forego an opportunity to protect the Colorado River Aqueduct conveyance system from quagga mussel infestation.

Alternatives Considered

Staff considered relining the existing tanks. Upon inspection, it was determined that the interior corrosion barrier of the tanks had deteriorated, and relining would not significantly strengthen the structural integrity or extend the life span of the tanks. Further, the required extensive rehabilitation will result in a cost comparable to

replacement. The selected alternative will replace the tanks, providing long-term reliability and flexibility to ensure uninterrupted CRA water deliveries.

Applicable Policy

Metropolitan Water District Administrative Code Section 8121: General Authority of the General Manager to Enter Contracts

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

Related Board Action(s)/Future Action(s)

By Minute Item 53598, dated April 8, 2024, the Board appropriated a total of \$636.48 million for projects identified in the Capital Investment Plan for Fiscal Years 2024/2025 and 2025/2026.

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed action is exempt from CEQA because there is no potential for the activity in question to have a significant effect on the environment.

CEQA determination for Option #2:

None required

Details and Background

Background

The CRA is a 242-mile-long conveyance system that transports water from the Colorado River to Lake Mathews. It consists of five pumping plants, 124 miles of tunnels, siphons, reservoirs, 63 miles of canals, and 55 miles of cut-and-cover conduits. The aqueduct was constructed in the late 1930s and placed into service in 1941.

The Copper Basin Reservoir was constructed in 1938 and is located downstream of the Gene Pumping Plant. It holds 24,200 acre-ft of water. The reservoir stores water and controls flow along the CRA system. Quagga mussels were first encountered within the CRA system in 2007. Quagga mussels are invasive species that prolifically breed and grow in layers on surfaces. This can have a detrimental effect on the CRA conveyance system and the equipment within the pumphouses. A sodium hypochlorite storage and feed facility was constructed at Copper Basin Reservoir in 2008 to protect the CRA system from quagga mussel infestation. Continuous dosing with sodium hypochlorite is a proven mitigation method against quagga mussel growth.

This facility has two 15,000-gallon FRP tanks that store and dispense sodium hypochlorite in a controlled manner for maximum effectiveness. These FRP tanks were replaced in 2018. FRP tanks in sodium hypochlorite service generally have a life span of 8 to 10 years. During the 2024 CRA shutdown, Metropolitan staff performed inspections of the two tanks and found them in poor condition. The observed tank deterioration consisted of structurally compromised corrosion barriers, separation cracks, and exposed fiberglass. Due to the deteriorated condition of these tanks, staff recommends replacement of the tanks. The tanks will be installed by Metropolitan forces following their fabrication and delivery to the project site.

Copper Basin Reservoir Sodium Hypochlorite Tanks Replacement - Procurement

This procurement contract will provide two sodium hypochlorite storage tanks, each 14 feet in diameter and 17 feet tall, with a storage capacity of 15,000 gallons. The tanks are constructed with thicker fiber-reinforced plastic and resin corrosion barriers, which provide improved structural properties and life spans. Metropolitan forces will receive, offload, and replace the existing tanks with the newly purchased tanks.

A total of \$590,000 is required to perform this work. In addition to the amount of the procurement contract described below, the allocated funds for Metropolitan staff include \$49,000 for factory fabrication inspection; \$15,000 for Metropolitan force construction to receive and offload at the site; \$47,000 for submittals review and responding to manufacturer requests for information; \$56,000 for contract administration and project

management; and \$15,259.34 for the remaining budget. Attachment 1 provides the allocation of the required funds.

Award of Procurement Contract

Specifications No. ME-5547 for furnishing two 15,000-gallon FRP tanks was advertised for bids on December 13, 2024. As shown in **Attachment 2**, five bids were received and opened on January 22, 2025. The bid from Ireland Inc. (dba Core-Rosion Products) in the amount of \$407,740.66 complies with the requirements of the specifications. This amount includes delivery and all sales and use taxes imposed by the state of California. The other bids, including taxes, ranged from approximately \$432,000 to \$703,000.

This action awards a \$407,740.66 procurement contract to Ireland Inc. dba Core-Rosion Products to furnish two 15,000-gallon FRP tanks for the Copper Basin Reservoir. As a procurement contract, there are no subcontracting opportunities, and no Small Business Enterprise participation level was established for this contract.

Project Milestone

September 2025 - Delivery of tanks

Mai M. Hattar Interim Chief Engineer Engineering Services

2/25/2025 Date

2/25/2025 Deven Upadh Date General Manager

Attachment 1 – Allocation of Funds Attachment 2 – Abstract of Bids Attachment 3 – Location Map Ref#es12702337

	Current Board Action (Mar. 2025)		
Labor			
Studies & Investigations	\$	-	
Final Design		-	
Owner Costs (Program mgmt., envir. monitoring)		56,000	
Submittals Review & Record Drwgs.		47,000	
Construction Inspection & Support		49,000	
Metropolitan Force Construction		15,000	
Materials & Supplies		-	
Incidental Expenses		-	
Professional/Technical Services		-	
Right-of-Way		-	
Equipment Use		-	
Contract		-	
Ireland Inc. dba Core-Rosion Products		407,740.66	
Remaining Budget		15,259.34	
Total	\$	590,000	

Allocation of Funds for Copper Basin Reservoir Sodium Hypochlorite Tanks Replacement

The total amount expended to date to replace the Copper Basin Reservoir sodium hypochlorite tanks is approximately \$100,000. The total estimated cost to complete the procurement and installation of the Copper Basin Reservoir Sodium Hypochlorite Tanks including the amount appropriated to date, funds allocated for the work described in this action, and future construction costs, is anticipated to range from \$1,100,000 to \$1,300,000.

The Metropolitan Water District of Southern California

Abstract of Bids Received on January 22, 2025, at 11:00 A.M.

Specifications No. ME-5547 Chemical Storage Tanks Fiberglass Reinforced Plastic

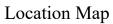
The work includes furnishing and delivery of two 15,000-gallon fiberglass reinforced plastic tanks for Copper Basin Reservoir.

Budgetary range estimate: \$400,000 - \$450,000

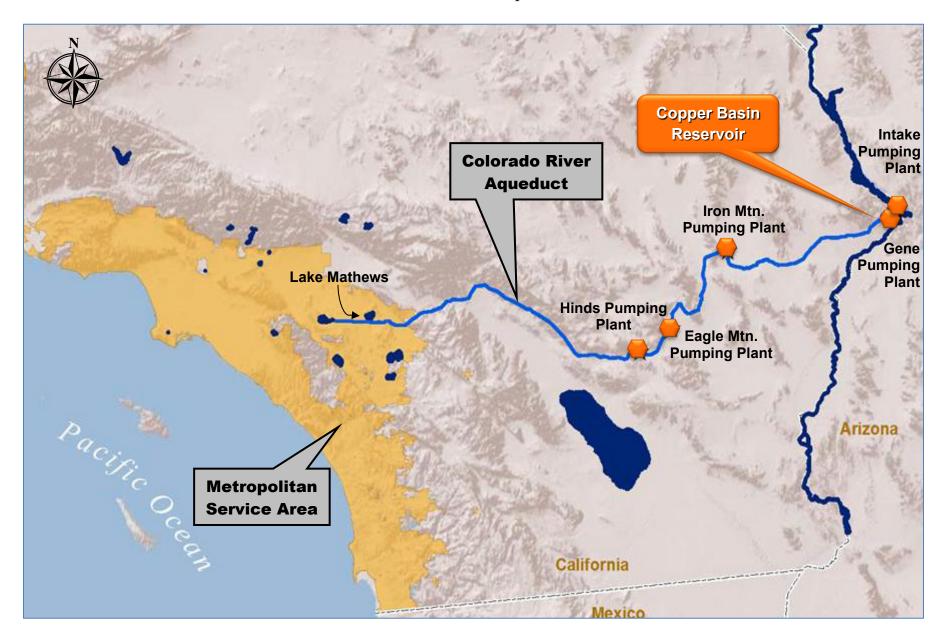
Bidder and Location	Total ^{1,2}
Ireland Inc. dba Core-Rosion Products Signal Hill, CA	\$381,984.00
Blue Angel International LLC Berkeley, CA	\$400,930.00
Environmental Water Solutions Inc. Gardena, CA	\$643,351.92
MISCOwater Foothill Ranch, CA	\$650,824.00
DXP Enterprises Inc. Anaheim, CA	\$652,255.00

Excludes delivery and taxes of 7.75 percent imposed by the state of California. The total award amount for the low bid is \$407,740.66.

2 As a procurement contract, there are no subcontracting opportunities.



7-1





Engineering, Operations, & Technology Committee Copper Basin Reservoir Sodium Hypochlorite Tanks Replacement

Item 7-1 March 10, 2025 Item 7-1 Copper Basin Reservoir Sodium Hypochlorite Tanks Replacement

Subject

Award a \$407,740.66 procurement contract to Ireland Inc. dba Core-Rosion Products to furnish two sodium hypochlorite tanks for the Copper Basin Reservoir

Purpose

Protects the Colorado River Aqueduct system from quagga mussel infestation to enhance reliability

Recommendation & Fiscal Impact Award a procurement contract for two sodium hypochlorite tanks Fiscal Impact – \$590,000

Budgeted

Location Map



Vicinity Map



Background

- Sodium hypochlorite facility
 - Used to control quagga mussel growth
 - Two 15,000-gallon fiberglass reinforced plastic (FRP) storage tanks
- 2024 Inspection findings
 - Degradation of interior corrosion
 barrier



Copper Basin Sodium Hypochlorite Facility

Copper Basin Sodium Hypochlorite Tanks Replacement

Alternatives Considered

- Considered Alternative Reline tank
 - Extensive damage to tanks
 - Rehabilitation not cost-effective
- Selected Alternative New tanks
 - Provides longer useful life
 - Improves reliability

Copper Basin Sodium Hypochlorite Tanks Replacement

Scope of Work

Tank Manufacturer

 Fabricate & deliver two 15,000-gallon FRP tanks

Metropolitan

- Review submittals
- Perform factory fabrication inspection
- Perform contract administration & project management
- Off-load & store tanks

Bid Results Specifications No. ME-5547

Bids Received

No. of Bidders

Lowest Responsive Bidder

Low Bid

Range of Other Bids

Budgetary Estimate

January 22, 2025

5

Ireland Inc. dba Core-Rosion Products \$407,740.66 \$432,000 - \$703,000 \$400,000 - \$450,000

*No SBE (Small Business Enterprise) participation level set for procurement contract

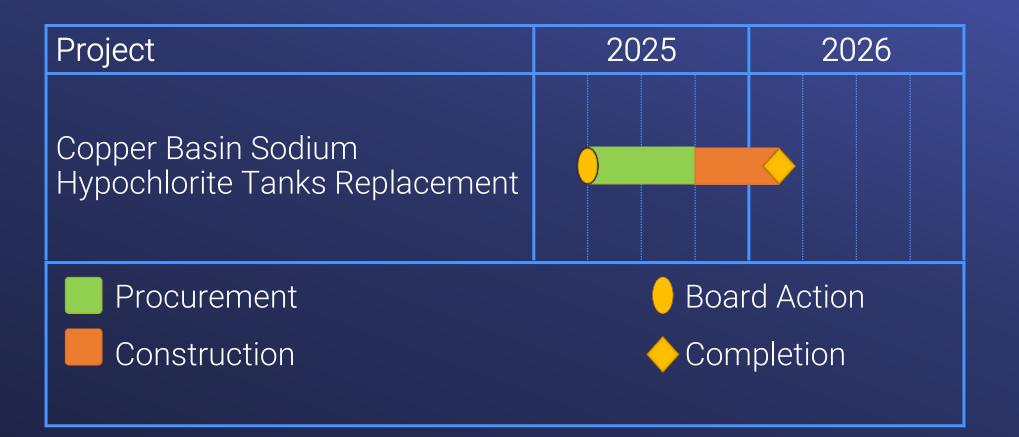
Allocation of Funds

Copper Basin Sodium Hypochlorite Tanks Replacement

Metropolitan Labor

Ś Owner Costs (Proj. Mgmt., Contract Admin.) 56,000 47,000 Submittals Review, Tech. Support, Record Dwgs. Fabrication Inspection & Support 49,000 Metropolitan Force Construction 15,000 Contract Ireland Inc. dba Core-Rosion Products 407,741 Remaining Budget 15,259 590,000 Total \$

Project Schedule



Board Options

• Option #1

Award a \$407,740.66 procurement contract to Ireland Inc. dba Core-Rosion Products to furnish two 15,000-gallon fiberglassreinforced tanks for the Copper Basin Reservoir.

• Option #2

Do not proceed with the project at this time.

Staff Recommendation

• Option #1





THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Action

Board of Directors Engineering, Operations, and Technology Committee

3/11/2025 Board Meeting

Subject

7-2

Award procurement contracts in the amount of \$321,575 to Integrated 8a Solutions, Inc. for two 24-inch knife gate valves and in the amount of \$2,151,947 to Bailey Valve for two 24-inch sleeve valves for the Hollywood Tunnel pressure control structure; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

The Hollywood Tunnel North Portal pressure control structure (Hollywood Tunnel PCS) is situated along the Santa Monica Feeder and controls downstream flows to the cities of Beverly Hills and Santa Monica. At this location, the 42-inch Santa Monica Feeder splits into two 24-inch flow control lines. The facility has two aging sleeve valves that control flow, two plug valves that isolate flows, and an outdated control system requiring staff to travel to the site to make frequent manual adjustments. The existing sleeve and plug valves have deteriorated to the point that they can no longer be refurbished.

This action awards a \$321,575 procurement contract to Integrated 8a Solutions Inc. for two 24-inch diameter gate valves and a \$2,151,947 procurement contract to Bailey Valve for two 24-inch diameter sleeve valves to be installed at the Hollywood Tunnel PCS. See **Attachment 1** for the Allocation of Funds, **Attachment 2** for the Abstract of Bids, and **Attachment 3** for the Location Map.

Proposed Action(s)/Recommendation(s) and Options

Staff Recommendation: Option #1

Option #1

- a. Award a \$321,575 procurement contract to Integrated 8a Solutions Inc. to furnish two 24-inch diameter gate valves; and
- b. Award a \$2,151,947 contract to Bailey Valve to furnish two 24-inch diameter sleeve valves for the Hollywood Tunnel pressure control structure.

Fiscal Impact: Expenditure of \$3,100,000 in capital funds. All costs will be incurred in the current biennium and have been previously authorized.

Business Analysis: This option will enhance the operational reliability of water deliveries in the west service area.

Option #2

Do not proceed with the project at this time.

Fiscal Impact: None

Business Analysis: This option would forego enhancing the reliability of service in the western service area. Under this option, staff would continue to maintain the existing valves and make field adjustments to operate the system properly.

Alternatives Considered

During the planning phase of this project, staff considered refurbishing the existing equipment; however, replacement parts are no longer available and must be custom fabricated or procured and adapted for this application, making the rehabilitation cost prohibitive. In addition, the valve's control system is also obsolete and unreliable.

Upon inspection, it was determined that the valves have deteriorated to the point that refurbishment was no longer feasible. The selected option to procure and install new valves will improve operational flexibility and enhance service quality within the western service area. In addition, valve replacements will improve efficiency by minimizing the frequent call-outs currently needed to troubleshoot and adjust the existing system. This efficiency gain can lead to more productive use of resources, allowing staff to focus on other critical tasks.

Applicable Policy

Metropolitan Water District Administrative Code Section 8121: General Authority of the General Manager to Enter Contracts

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

Related Board Action(s)/Future Action(s)

By Minute Item 53598, dated April 8, 2024, the Board appropriated a total of \$636.48 million for projects identified in the Capital Investment Plan for Fiscal Years 2024/2025 and 2025/2026.

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed action does not constitute an approval of the project for the purposes of CEQA. Environmental review will be completed prior to any decision by the Board which commits Metropolitan to the project. (State CEQA Guidelines Section 15352.)

CEQA determination for Option #2:

None required

Details and Background

Background

The Hollywood Tunnel PCS was built as part of the construction of the Santa Monica Feeder in 1941. It is one of three control points along the 25-mile Santa Monica Feeder, which delivers water to the cities of Burbank, Beverly Hills, Los Angeles, and Santa Monica. The PCS maintains the hydraulic grade elevation in the Hollywood Tunnel. The structure consists of two 24-inch-diameter hydraulically operated sleeve valves modulated by a mechanical control system, two 24-inch conical plug valves used for flow isolation and a single 16-inch-diameter bypass valve. The conical plug valve and bypass valve are manually operated.

The existing control and isolation valves are 50 years old and periodically fail, requiring regular corrective maintenance. In addition, repair parts for the valves are no longer available and must be custom fabricated or procured and adapted for this service. The existing mechanical control system has existed since the structure's original construction and was custom designed by Metropolitan staff. This mechanism no longer operates properly during low hydraulic pressure scenarios and does not allow for remote operation. In addition, staff is required to make weekly adjustments to the system to keep it in proper operation. Staff is also frequently called out to the site during non-business hours to troubleshoot the system and make manual adjustments. This facility is unique in Metropolitan's distribution system and requires staff to be specially trained to operate the facility.

Preliminary design for improvements to the Hollywood Tunnel North Portal facility was recently completed. Staff recommends proceeding with the procurement of long-lead time valves at this time. Staff will return to the Board to award a construction contract for installation of these valves.

Hollywood Tunnel North Portal Control Structure Upgrades – Procurement

The scope of the procurement contract includes furnishing two 24-inch diameter sleeve valves operated by electric actuators for pressure control and two 24-inch diameter bonneted knife gate valves operated by manual actuators for flow isolation. The bonneted knife gate valves will replace the existing deteriorating conical plug valves. Metropolitan forces will receive, offload, and store the valves. The 16-inch-diameter bypass valve was found to be in good condition and will not be replaced.

A total of \$3,100,000 is required to perform this work. In addition to the amount of the procurement contracts described below, the allocated funds for Metropolitan staff include \$147,000 for factory fabrication inspection and functional testing; \$194,000 for submittals review and responding to manufacturer requests for information; \$148,000 for contract administration, project management, and unloading of the valve; and \$137,478 for the remaining budget. **Attachment 1** provides the allocation of the required funds.

Award of Procurement Contract

Specifications No. 2099 for furnishing two 24-inch diameter gate valves (Schedule 1) and two 24-inch diameter sleeve valves (Schedule 2) for the North Hollywood Tunnel was advertised for bids on November 22, 2024, and opened on January 16, 2025.

As shown in **Attachment 2**, two bids were received for Schedule 1. The bid from Integrated 8a Solutions Inc. in the amount of \$321,575 complies with requirements of the specifications for the 24-inch gate valves (Schedule 1). This bid amount includes all sales and use taxes imposed by the state of California. The other bid was deemed non-responsive as they did not submit a bid bond as required. The budgetary cost estimate for this equipment, based on a survey of vendors, ranged from \$325,000 to \$375,000.

As shown in **Attachment 2**, three bids were received for Schedule 2. The bid from Bailey Valve in the amount of \$2,151,947 complies with the requirements of the specifications for the 24-inch sleeve valves (Schedule 2). This amount includes all sales and use taxes imposed by the state of California. The two other bidders were deemed non-responsive as their bids were not for the type of valve specified; additionally, one of these bidders also did not submit a bid bond as required. The budgetary cost estimate for this equipment, based on a survey of vendors, ranged from \$1,600,000 to \$1,800,000.

Staff investigated the reason for the higher-than-expected bid for the Schedule 2 valves and attributes it to the limited number of valve manufacturers. Also, some manufacturers preferred not to undertake the custom engineering and fabrication required for valves that would fit within the existing structure and meet the hydraulic conditions.

This action awards a \$321,575 procurement contract to Integrated 8a Solutions Inc. to furnish two gate valves and a \$2,151,947 procurement contract to Bailey Valve to furnish two sleeve valves for the Hollywood Tunnel PCS. As a procurement contract, there are no subcontracting opportunities, and a small Business Enterprise participation level was not required for this contract.

Project Milestone

June 2026 – Delivery of valves

tal

Mai M. Hattar I Interim Chief Engineer Engineering Services

2/19/2025 Date

Deven Upadhyay 2/19/2025 General Manager Date

Attachment 1 – Allocation of Funds Attachment 2 – Abstract of Bids Attachment 3 – Location Map

Ref# es12704588

Allocation of Funds for the Hollywood Tunnel Valve Procurement

7-2

	Current Board Action (Mar. 2025)		
Labor			
Studies & Investigations	\$ -		
Final Design	-		
Owner Costs	118,000		
Submittals Review & Record Drwgs.	194,000		
Construction Inspection & Support	122,000		
Metropolitan Force Construction	10,000		
Materials & Supplies	-		
Incidental Expenses	20,000		
Professional/Technical Services	25,000		
Right-of-Way	-		
Equipment Use	-		
Contracts	-		
Integrated 8a Solutions Inc.	321,575		
Bailey Valve	2,151,947		
Remaining Budget	137,478		
Total	\$ 3,100,000		

The total amount expended to date is approximately \$1.7 million. The total estimated cost to complete the improvements to the Hollywood Tunnel Pressure Control Structure, including the amount appropriated to date, funds allocated for the work described in this action, and future construction costs, is anticipated to range from \$7 million to \$8 million.

The Metropolitan Water District of Southern California

Abstract of Bids Received on January 16, 2025, at 2:00 P.M.

Specifications No. 2099 Furnishing Knife Gate Valves and Sleeve Valves for the Hollywood Tunnel Pressure Control Structure

Schedule 1: The work includes furnishing two 24-inch knife gate valves

Budgetary estimate range: \$325,000 - \$375,000

Bidder and Location	Bio	d Amount
Integrated 8a Solutions Inc. Newport Beach, CA	\$	321,575
Vogt Valves Inc. ¹ Stafford, TX	\$	309,380

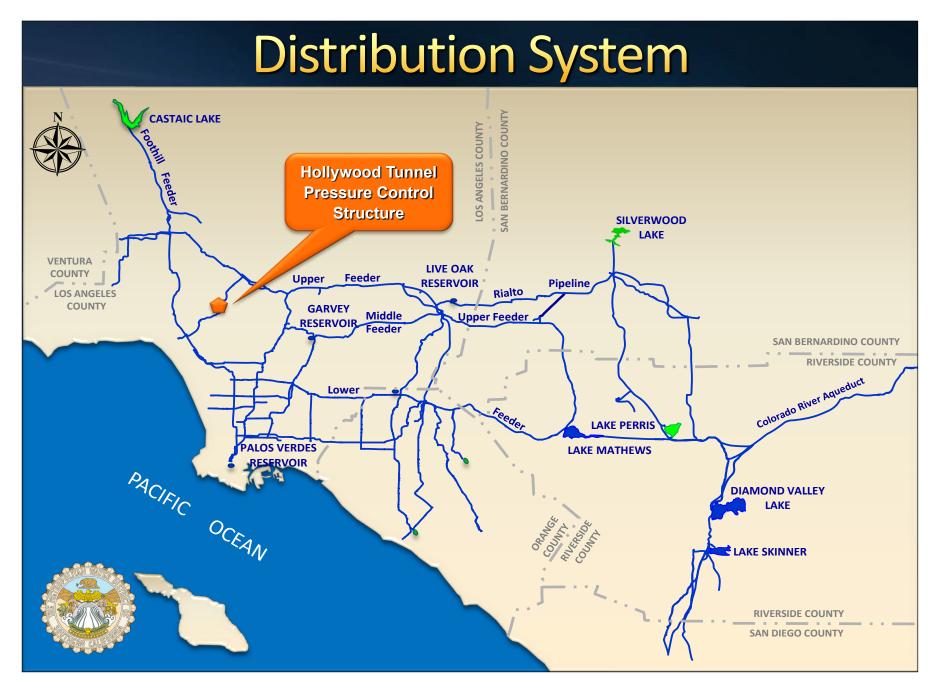
¹ Vogt Valves Inc. is deemed non-responsive because a bid bond was not received.

Schedule 2: The work includes furnishing two 24-inch sleeve valves.

Budgetary estimate range: \$1,600,000 - \$1,800,000

Bidder and Location	Bid Amount
Integrated 8a Solutions Inc. ¹ Newport Beach, CA	\$ 901,925
Vogt Valves Inc. ¹ Stafford, TX	\$ 922,660
Bailey Valve Fresno, CA	\$ 2,151,947

¹ Integrated 8a Solutions Inc. and Vogt Valves Inc. are deemed non-responsive because both bidders did not meet the specifications. Additionally, Vogt Valves Inc. did not provide a bid bond.



7-2



Engineering, Operations, & Technology Committee Hollywood Tunnel PCS Valves Procurement

Item 7-2 March 10, 2025 Item 7-2 Hollywood Tunnel PCS Valves Procurement

Subject

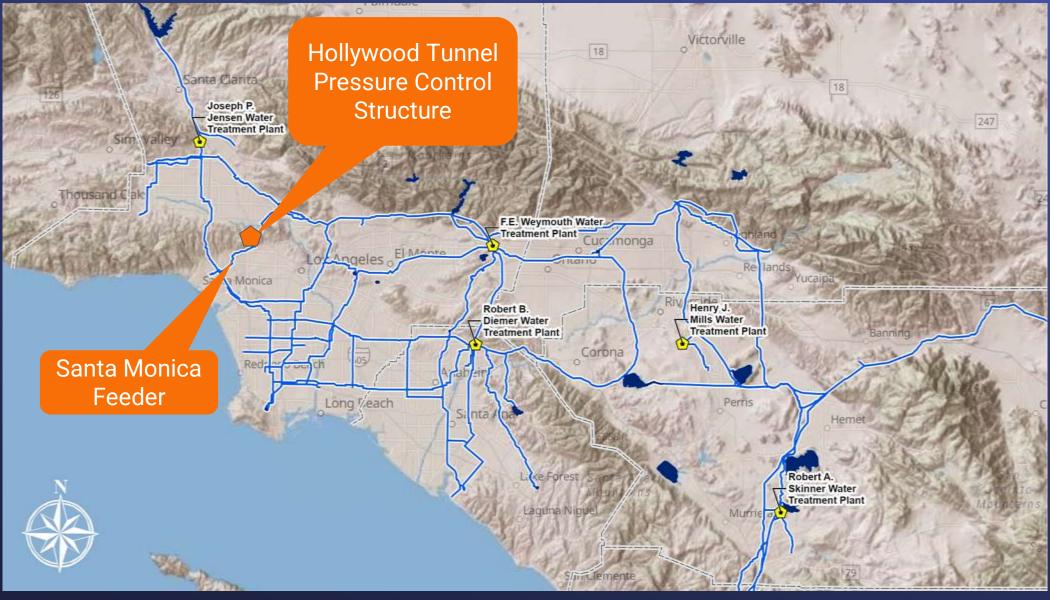
Award a procurement contract in the amount of \$321,575 to Integrated 8a Solutions Inc. for two 24-inch knife gate valves and award a procurement contract in the amount of \$2,151,947 to Bailey Valve for two 24-inch sleeve valves for the Hollywood Tunnel pressure control structure

Purpose

Replace aging valves to improve operational reliability **Recommendation and Fiscal Impact** Award procurement contracts for valves Fiscal Impact – \$3,100,000 **Budgeted**

Engineering, Operations, & Technology Committee

Location Map





Hollywood Tunnel PCS Valves Procurement

Background

- Hollywood Tunnel Pressure Control Structure (PCS)
 - Regulates flows on Santa Monica Feeder
- PCS with mechanical control system built in 1941
 - Control system uses pulleys, cables and counterweights
 - Requires frequent maintenance and adjustments
 - Valves can no longer be refurbished



Hollywood Tunnel PCS Valves Procurement

Alternatives Considered

- Considered Valve refurbishment
 - Extensive damage to aging valve
 - Repair not cost-effective
- Selected Alternative New knife gate and sleeve valves
 - Improves reliability
 - Increases maintenance efficiency

Internal Section

Hollywood Tunnel PCS Valves Procurement

Scope of Work

- Valve Manufacturers
 - Fabricate and deliver
 - Two 24-inch gate valves with manual actuators
 - Two 24-inch sleeve valves with electro-hydraulic actuators
- Metropolitan
 - Fabrication inspection and testing
 - Submittal reviews
 - Project management and contract administration
 - Off-load and store valves

Bid Results Specifications No. 2099 – Schedule 1: Knife Gate Valves

Bids Received No. of Bidders Responsive Bidder Low Bid Other Bid Budgetary Range January 16, 2025 2 Integrated 8a Solutions Inc. \$321,575 Non-responsive \$325,000 - \$375,000

*No SBE (Small Business Enterprise) participation level set for procurement contract

Bid Results Specifications No. 2099 – Schedule 2: Sleeve Valves

Bids Received No. of Bidders Responsive Bidder Low Bid Other Bids Budgetary Range January 16, 2025 3 Bailey Valve \$2,151,947 Two non-responsive bids \$1,600,000 - \$1,800,000

*No SBE (Small Business Enterprise) participation level set for procurement contract

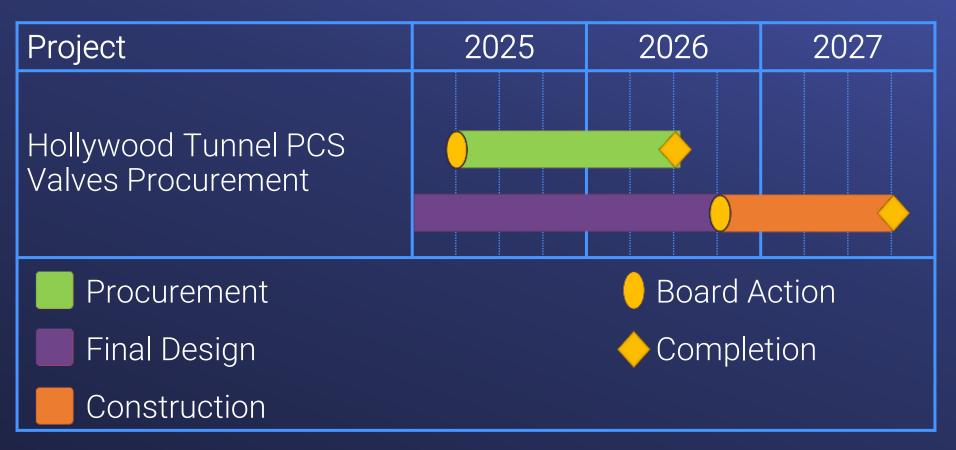


Allocation of Funds

Hollywood Tunnel PCS Valves Procurement

Metropolitan Labor Owner Costs (Proj. Mgmt., Contract Admin.) Ş 138,000 Submittals Review, Tech. Support, Record Dwgs. 194,000 Fabrication Inspection & Support 122,000 MetForce Construction 10,000 Professional/Technical Services (Inspection) 25,000 Contracts Integrated 8a Solutions Inc. 321,575 **Bailey Valve** 2,151,947 137,478 **Remaining Budget** Total \$ 3,100,000

Project Schedule



Note: Valves to be installed during a future shutdown under separate construction contract.

Board Options

- Option #1
 - a. Award a \$321,575 procurement contract to Integrated 8a Solutions Inc. to furnish two 24-inch diameter gate valves; and
 - b. Award a \$2,151,947 contract to Bailey Valve to furnish two 24-inch diameter sleeve valves for the Hollywood Tunnel pressure control structure.
- Option #2
 Do not proceed with the project at this time.

Staff Recommendation

• Option #1







THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Action

Board of Directors One Water and Adaptation Committee

3/11/2025 Board Meeting

Subject

7-4

Authorize the General Manager to enter into agreements with the City of San Buenaventura and Calleguas Municipal Water District for wheeling and emergency delivery of State Water Project water; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

Staff recommends the Board of Directors (Board) authorize the General Manager to enter into agreements requested by Calleguas Municipal Water District (Calleguas) and the City of San Buenaventura (Ventura) that will facilitate deliveries between the two agencies via a new interconnection pipeline. The proposed agreements include an agreement for the proposed wheeling of Ventura's State Water Project (SWP) water through Metropolitan's system for Ventura, and an agreement to consent to the delivery of SWP supply under emergency circumstances. Calleguas is a Metropolitan member agency that is included in the SWP-dependent area and receives imported water from Metropolitan via three service connections off a single pipeline. The Calleguas service territory borders Ventura, which has a SWP allocation through its contractual relationship with the Ventura County Watershed Protection District. Ventura has no physical connection to SWP facilities and has never delivered SWP water to its service area. Currently, Ventura and Calleguas are building a bidirectional interconnection pipeline, the C-V Interconnection Pipeline (CVIP), to connect their water distribution systems. The bidirectional pipeline will provide the infrastructure necessary to allow Ventura's SWP allocation to be delivered through the wheeling agreement.

The purpose of the agreements described in this board letter is for Metropolitan to wheel up to 2,000 acre-feet (AF) per year of Ventura's SWP water to Calleguas, when it determines capacity is available to do so, and that water then will be transported by Calleguas to the CVIP for delivery to Ventura, and during times of emergencies, allow the exchange of water supplies between Ventura and Calleguas that may involve delivery of SWP water into each other's service areas. Staff has developed draft agreements with Ventura and Calleguas to accomplish the objectives described above (Attachment 1 and Attachment 2) and presented an informational item to the Board in February 2025.

Proposed Action(s)/Recommendation(s) and Options

Staff Recommendation: Option #1

Option #1

Authorize the General Manager to enter into agreements with the City of San Buenaventura and Calleguas Municipal Water District for wheeling and emergency delivery of State Water Project water; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Fiscal Impact: Metropolitan will receive financial compensation to cover its costs as provided for in the wheeling agreement. There is no fiscal impact nor obligation to Metropolitan in allowing Calleguas and Ventura to provide water to each other during emergencies.

Business Analysis: The agreements help improve resilience in Ventura County while protecting Metropolitan's interests as the wheeling will only occur if Metropolitan staff identify available capacity and financial compensation is provided.

Option #2

Direct the General Manager not to enter into agreements under the proposed terms.

Fiscal Impact: None

Business Analysis: Not authorizing the wheeling agreement would require Metropolitan to negotiate each transaction with Ventura when its SWP water is available for wheeling and when Metropolitan has capacity to do so. Not authorizing the agreement to consent to SWP water in each service area during emergencies would not allow emergency delivery of water between Calleguas and Ventura. This will effectively halt the bidirectional interconnection pipeline between Calleguas and Ventura and potentially negatively impact water supply reliability in Ventura County.

Alternatives Considered

None

Applicable Policy

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

Related Board Action(s)/Future Action(s)

None

Summary of Outreach Completed

Staff presented on the proposed agreements to the One Water and Stewardship Committee in February 2025.

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed action is exempt under the provisions of CEQA and the State CEQA Guidelines. The proposed action involves entering into agreements with the City of San Buenaventura and Calleguas Municipal Water District for wheeling and emergency delivery of SWP water associated with the operation of existing public water conveyance facilities with negligible or no expansion of use and no possibility of significantly impacting the physical environment. (State CEQA Guidelines Section 15301.)

CEQA determination for Option #2:

None required

Details and Background

Background

Calleguas is a Metropolitan member agency located in Ventura County. In general, Metropolitan takes delivery of SWP water at Castaic Lake via Metropolitan's Foothill Feeder, treats this water at the Joseph Jensen Water Treatment Plant, and delivers the treated water to Calleguas via one of three service connections located off Metropolitan's West Valley Feeder No. 1 and 2 (Figure 1 – blue arrows). During drought periods, Metropolitan can also deliver treated Colorado River water via Metropolitan's Greg Avenue Pump Station to Calleguas. Calleguas provides this treated water to several cities and water agencies in Ventura County, as well as the Naval Base Ventura County. Calleguas aims to improve water supply resilience by proposing interconnections with other agencies, such as Ventura and Las Virgenes Municipal Water District, another Metropolitan member agency.

Ventura is also located in Ventura County but is not a Metropolitan member agency. Since 1971, Ventura has shared the cost of the Ventura County Watershed Protection District State Water Project contract with Casitas Municipal Water District (Casitas) and United Water Conservation District (United). Ventura's SWP Table A

share is 10,000 AF, but Ventura has no physical connection to SWP facilities and has never taken delivery of SWP supplies. Ventura has expressed interest in starting to take delivery of up to 2,000 AF per year of its SWP supplies.

Calleguas and Ventura are project partners on the CVIP, which includes an approximate seven-mile-long bidirectional pipeline that interconnects the two agencies from a water supply standpoint. Once operational, the CVIP would allow water to flow between the two agencies during an emergency, and would also allow Ventura to receive SWP supplies, provided that Metropolitan wheels Ventura's SWP water to Calleguas. The CVIP is schematically shown in Figure 1 and is expected to be online in autumn 2026/spring 2027. Both proposed uses of the pipeline are covered under the set of draft agreements (Attachment 1 and Attachment 2) described later in this board letter.

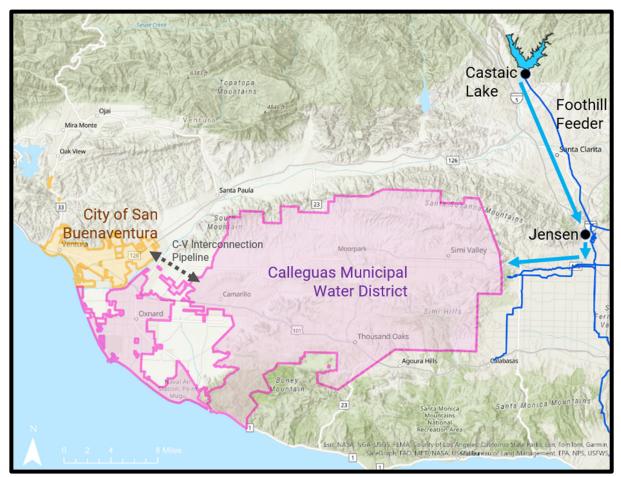


Figure 1– Location Map.

Blue arrows on the right of the figure indicate the water path from Castaic Lake to Calleguas. The CVIP (labeled) between Ventura and the City of Camarillo (Calleguas' service area) is a bidirectional pipeline not drawn to scale.

Proposed Agreements

Two separate agreements are needed to support the proposed uses of the CVIP: (1) an agreement to wheel SWP water; and (2) an agreement to consent to delivery of MWD and Ventura's SWP supply to each other's service area during an emergency.

1) Agreement to wheel Ventura's SWP water

Ventura proposes to receive up to 2,000 AF per year of their SWP supplies using the interconnection with Calleguas. For that to happen, Metropolitan would wheel Ventura's SWP supplies from Castaic Lake and deliver

them to Calleguas. Currently, Metropolitan only delivers treated water to Calleguas, so the wheeled water would also be a treated water supply. Calleguas would then wheel this water to the CVIP under a separate agreement between Calleguas and Ventura. The draft wheeling agreement between Metropolitan, Calleguas and Ventura (**Attachment 1**) specifies terms and conditions for the wheeling, as well as financial compensation for Metropolitan.

The key terms of this agreement are summarized below:

- System losses will be applied for the wheeled water
 - System losses would be reviewed every five years
 - Metropolitan system losses are currently 3%
 - Calleguas system losses are currently 0.5%
- Metropolitan staff will determine if sufficient capacity is available prior to wheeling
- Metropolitan will deliver treated wheeled water to Calleguas via its current water service connections off West Valley Feeder No. 2
- Financial compensation for Metropolitan
 - Wheeling price is a fixed dollar amount, initially based on the currently published transportationrelated rate elements, the System Access Rate and the System Power Rate, and the published Treatment Surcharge
 - In calendar year 2025 the price is 622 + 483 = 1,105 per acre-foot
 - In calendar year 2026 the price is 671 + 544 = 1,215 per acre-foot
 - For years beyond 2026, the price will be based on an annual increase from the previous year's wheeling price plus a percentage increase equal to the Consumer Price Index for All Urban Consumers (CPI-U) series "Water and sewerage maintenance in U.S. city average, all urban consumers, not seasonally adjusted."
 - In calendar year 2027, the price per acre-foot would be \$1,215 + (\$1,215 * CPI-U%)
 - In calendar year 2028, the price per acre-foot is the 2027 wheeling price + (2027 wheeling price * CPI-U%)
 - In calendar year 2029, the price per acre-foot is the 2028 wheeling price + (2028 wheeling price * CPI-U%)

The CPI-U for water and sewerage maintenance has increased at rates that outpace general measures of inflation over a longer-term perspective (i.e., CPI-U all items) reflecting the acute cost pressures affecting water/wastewater utilities nationally.

Once this wheeling agreement is signed, Metropolitan staff will work with Ventura to enter into an agreement with the California Department of Water Resources (DWR). In this agreement with DWR, Castaic Lake will be specified as the point of delivery of Ventura's SWP supplies to Metropolitan for wheeling and will indicate that all SWP charges, including variable power rates, will be paid by Ventura.

2) Agreement to consent to delivery of Metropolitan and Ventura's SWP supply to each other's service area during an emergency

Calleguas proposes to receive water supplies from Ventura using the CVIP during emergency circumstances that prevent Metropolitan from delivering water to Calleguas. This would address Calleguas' vulnerability of having a single pipeline delivering treated imported water from Metropolitan. Similarly, Ventura would also be able to receive water supplies from Calleguas during emergency situations. However, Section 15(a) of the State Water Contract prohibits a contractor from providing SWP supplies to another contractor's service area without that contractor's consent. The draft agreement (Attachment 2) would provide such consent.

The key terms of this agreement are summarized below:

- Definition of emergencies
 - Planned and unplanned water service interruptions
 - Emergencies do not include drought conditions

• Narrow scope

0

- Either Calleguas or Ventura can borrow supplies during an emergency
- The borrowed water during emergencies will be returned in a 1:1 ratio
 - Limited to consent for SWP water to be delivered in each other's service area
 - No financial compensation for Metropolitan for the consent
- Does not obligate Metropolitan to deliver SWP supplies to Calleguas either for emergency deliveries to Ventura or for return of water by Calleguas to Ventura

Summary

The authorization of the General Manager to enter into agreements with Calleguas and Ventura will allow Ventura to receive a portion of its SWP water via wheeling by Metropolitan, and will allow Ventura and Calleguas to provide water deliveries during emergencies. These actions will improve overall water resilience in Ventura County, as well as support Metropolitan's member agency (Calleguas) by increasing the resilience of their water infrastructure.

2/25/2025 Brandon J. Goshi Date

Interim Manager, Water Resource Management

2/25/2025 even N. U Date General Manader

- Attachment 1 DRAFT Agreement for Wheeling of Water Between the Metropolitan Water District of Southern California, Calleguas Municipal Water District, and the City of San Buenaventura
- Attachment 2 DRAFT Agreement for Permission to Deliver State Water Project Water into The Service Area of State Water Project Contractors Metropolitan Water District of Southern California and City of San Buenaventura (Through Ventura County Watershed Protection District) Under Emergency Circumstances

Ref# wrm12700111

AGREEMENT FOR PERMISSION TO DELIVER STATE WATER PROJECT WATER INTO THE SERVICE AREAS OF STATE WATER PROJECT CONTRACTORS METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA AND CITY OF SAN BUENAVENTURA (THROUGH VENTURA COUNTY WATERSHED PROTECTION DISTRICT) UNDER EMERGENCY CIRCUMSTANCES

7-4

This Agreement is entered into this _____ day of _____, 20____ by The Metropolitan Water District of Southern California (Metropolitan), Calleguas Municipal Water District (Calleguas), and the City of San Buenaventura (Ventura), referred to individually as a "Party" or collectively as the "Parties."

RECITALS

A. Metropolitan is a public agency of the State of California incorporated under the Metropolitan Water District Act, Stats. 1969, ch. 209, as amended, codified at Section 109.1 *et seq.* of Appendix Section 109 to the California Water Code. It is a voluntary cooperative made up of its member agencies. Currently, Metropolitan imports water from the State Water Project (SWP) and the Colorado River and distributes water to its member agencies located in the counties of Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura. Metropolitan is a State Water Contractor with participating rights in the SWP.

B. Calleguas is a public agency organized under the Municipal Water District Act of 1911. Calleguas is a member agency of Metropolitan.

C. Ventura is a California Charter Law Municipal Corporation and is not a member agency of Metropolitan. Ventura shares the cost of the Ventura County Watershed Protection District SWP Contract with Casitas Municipal Water District and United Water Conservation District (United) and Ventura has the right to receive delivery of SWP water.

D. On May 1, 2023, an Agreement between Calleguas, Ventura, and United (Interconnection Agreement) was executed for construction and operation of the Calleguas-Ventura (C-V) Interconnection Pipeline to convey water between the Calleguas and Ventura distribution systems.

E. Ventura and Metropolitan intend to enter into an agreement for Metropolitan to wheel Ventura's SWP water from Metropolitan's SWP turnouts at Castaic Lake through Metropolitan's facilities to Calleguas (the "Wheeling Agreement"). Calleguas will then wheel Ventura's SWP water to Ventura through its own system and the new C-V Interconnection 3/11/2025 Board Meeting 7-4 Attachment 1, Page 2 of 5 Pipeline and into Ventura's distribution system pursuant to the Interconnection Agreement.

F. In addition to the delivery of Ventura's SWP water on a regular basis, Calleguas and Ventura intend for the C-V Interconnection Pipeline to serve as a bidirectional emergency conveyance pipeline to provide water to each other during an emergency and to "pay back" that water after the emergency.

G. Metropolitan and Ventura (through the Ventura County Watershed Protection District) are SWP contractors and subject to the contractual restrictions therein. SWP contractors may not deliver water into another contractor's service area without that contractor's written consent.

NOW THEREFORE, in consideration of the foregoing and the mutual covenants set forth herein, and for other good and valuable consideration, the receipt, adequacy and sufficiency of which are acknowledged, the Parties agree as follows:

AGREEMENT

1. <u>Purpose</u>. This Agreement provides consent by each of Metropolitan and Ventura for SWP water to be delivered into each other's service area under the conditions stated in Sections 4, 5, 6 and 7.

2. <u>Consent</u>. Section 15(a) of the State Water Contract prohibits a contractor from providing SWP supplies to another contractor's service area without that contractor's consent. Accordingly, Metropolitan and Ventura hereby agree that during times of emergency caused by operational interruptions, as stated in Sections 4, 5, 6, and 7, Ventura may provide its water (which may include SWP water) to Metropolitan Member Agency Calleguas and Calleguas may provide Metropolitan water (which may include SWP water) to Ventura for the term of this Agreement. Emergencies pursuant to this Agreement include planned and unplanned water service interruptions and do not include drought conditions.

3. <u>Notice of Emergency Delivery.</u> Calleguas shall notify Metropolitan of emergency deliveries within 24 hours of the emergency, and provide the following information, including: start date for deliveries, the requesting party (Calleguas or Ventura), estimated duration and quantity of deliveries, the source of deliveries (e.g., local or SWP supply), and the reason for the emergency. Notification to parties shall be according to Section 11.

4. <u>Permitted Delivery of Ventura SWP Water to Calleguas During Emergencies</u>.

The consent provided herein is limited to an emergency circumstance that involves a planned or unplanned operational interruption that results in Metropolitan not being able to

2

3/11/2025 Board Meeting 7-4 Attachment 1, Page 3 of 5 deliver water to Calleguas. In that circumstance, Ventura may make emergency water deliveries to Calleguas that may include Ventura's SWP water delivered via the C-V Interconnection Pipeline.

5. <u>Permitted Delivery of Metropolitan SWP Water to Ventura After Emergencies</u>. In exchange for emergency water deliveries from Ventura, Calleguas intends to return an equal amount of water to Ventura using water that may include Metropolitan's SWP water. Ventura consents to delivery of Metropolitan's SWP water in Ventura's service area, limited to the return of water Calleguas owes Ventura for emergency water deliveries. Any return by Calleguas of emergency water deliveries shall not be subject to the Parties' Wheeling Agreement, as the water returned by Calleguas is not being wheeled on behalf of Ventura; it is water that Metropolitan delivered to Calleguas.

6. <u>Permitted Delivery of Metropolitan SWP Water to Ventura During Emergencies.</u> The consent provided herein is limited to an emergency circumstance that involves a planned or unplanned operational interruption in the service area of Ventura, during a time when Ventura's SWP water is unavailable for Metropolitan to wheel that water to Ventura. In that circumstance, Calleguas may make emergency water deliveries to Ventura that may contain Metropolitan's SWP water delivered via the C-V Interconnection Pipeline. Ventura consents to delivery of Metropolitan's SWP water within Ventura's service area during an emergency. Delivery by Calleguas of emergency water deliveries shall not be subject to the Parties' Wheeling Agreement, as the water delivered by Calleguas is not being wheeled on behalf of Ventura; it is water that Metropolitan delivered to Calleguas.

7. <u>Permitted Delivery of Ventura SWP Water to Calleguas After Emergencies.</u> In exchange for emergency water deliveries from Calleguas, Ventura intends to return an equal amount of water to Calleguas using water from its service area that may contain SWP water or from Ventura's SWP supply wheeled by Metropolitan to Calleguas under the Wheeling Agreement. Metropolitan consents to the delivery of Ventura's SWP water in Calleguas' service area, limited to the return of the water Ventura owes Calleguas for emergency water deliveries. If return is made using Ventura's SWP water wheeled by Metropolitan to Calleguas for Ventura, it will be subject to the Wheeling Agreement and the charges set forth therein, except that Calleguas need not wheel the water to Ventura as otherwise contemplated by the Wheeling Agreement.

8. <u>Scope of Metropolitan's Obligations</u>. This Agreement is limited to Metropolitan's and Ventura's consent for SWP water to be made available in its service area as described

3

3/11/2025 Board Meeting7-4Attachment 1, Page 4 of 5herein. It does not obligate Metropolitan to make water available to Calleguas for emergencydeliveries to Ventura or for return of water by Calleguas to Ventura.

9. <u>Commencement</u>. This Agreement is effective on the date that the last party has executed the Agreement.

10. <u>Termination</u>. This Agreement terminates on December 31, 2055 or upon the termination of the current State Water Contracts with the California Department of Water Resources, whichever comes first.

11. <u>Notification</u>. Unless and until changed by notification given in accordance with this Section, any notice, demand, or request to be given under or pursuant to this Agreement shall be given in writing at the physical addresses set forth below by personal service; overnight courier; or registered or certified, first-class mail, return receipt requested, or via electronic mail at the email address set forth below:

If to Metropolitan:

The Metropolitan Water District of Southern California

P.O. Box 54153

Los Angeles, CA 90054-0153

Attention: General Manager

If to Calleguas:

Calleguas Municipal Water District

2100 Olsen Road

Thousand Oaks, CA 91360-6800

Attention: General Manager

If to City of Ventura:

City of Ventura 501 Poli Street City Hall Ventura, CA 93002-0099 Attention: City Manager

[signatures on following page]

Attachment 1, Page 5 of 5

3/11/2025 Board Meeting 7-4 **THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA**

Deven N. Upadhyay	Dated
Interim General Manager	
APPROVED AS TO FORM:	
Marcia L. Scully General Counsel	Dated
CALLEGUAS MUNICIPAL WAT	ER DISTRICT
Kristine McCaffrey General Manager	Dated
APPROVED AS TO FORM:	
Walter E. Wendelstein District Counsel	Dated
CITY OF SAN BUENAVENTURA	
Bill Ayub City Manager	Dated
APPROVED AS TO FORM: Javan N. Rad, City Attorney	
By: Miles Hogan Senior Assistant City Attorney	Dated

AGREEMENT FOR WHEELING OF WATER BETWEEN THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA, CALLEGUAS MUNICIPAL WATER DISTRICT, AND THE CITY OF SAN BUENAVENTURA

7 - 4

This Agreement for Wheeling of Water (Agreement) is entered into by The Metropolitan Water District of Southern California (Metropolitan), Calleguas Municipal Water District (Calleguas), and the City of San Buenaventura (Ventura), referred to individually as a "Party" or collectively as the "Parties."

RECITALS

A. Metropolitan is a public agency of the State of California incorporated under the Metropolitan Water District Act, Stats. 1969, ch. 209, as amended, codified at Section 109.1 *et seq.* of Appendix Section 109 to the California Water Code. It is a voluntary cooperative made up of its member agencies. Currently, Metropolitan imports water from the State Water Project (SWP) and the Colorado River and distributes water to its member agencies located in the counties of Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura.

B. Metropolitan's system is an interconnected statewide and regional system integrating the SWP, the Colorado River Aqueduct, and the distribution system within its service area. Accordingly, Metropolitan determines and attributes all costs to the system as a whole, including its capital, operation, maintenance, and replacements.

C. Calleguas is a public agency organized under the Municipal Water District Act of 1911. Calleguas is a member agency of Metropolitan.

D. Ventura is a California Charter Law Municipal Corporation and is not a member agency of Metropolitan. Ventura shares the cost of the Ventura County Watershed Protection District SWP Contract with Casitas Municipal Water District and United Water Conservation District (United) and Ventura has the right to receive delivery of SWP water. Ventura wishes to convey that water through a new interconnection pipeline that would transport SWP water from Calleguas's distribution system to Ventura's distribution system (the C-V Interconnection Pipeline). Prior to this Agreement, Ventura transferred its share of SWP water to other SWP contractors along and at the end of the California Aqueduct and now intends to take a portion of its SWP water for its own use.

E. Ventura desires to have Metropolitan wheel its SWP water from Metropolitan's SWP turnouts at Castaic Lake through Metropolitan's facilities, provided Metropolitan has capacity as described in this Agreement, to Calleguas. Calleguas will then wheel Ventura's SWP water to Ventura through its own system and the new C-V Interconnection Pipeline and into Ventura's distribution system pursuant to a separate agreement between Calleguas and Ventura (hereinafter the "Calleguas Ventura Agreement").

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F. On May 1, 2023, an Agreement between Calleguas, Ventura, and United was executed for construction and operation of the C-V Interconnection Pipeline to convey water between the Calleguas and Ventura distribution systems.

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing recitals and the representations, warranties, covenants, and agreements contained in this Agreement and for other good and valuable consideration, the receipt and sufficiency of which the Parties hereby acknowledge is fair compensation, the Parties hereby agree to the following terms and conditions of this Agreement.

1. <u>Agreement to Wheel Ventura's SWP Supplies</u>. Pursuant to this Agreement, Metropolitan agrees to wheel SWP supplies to which Ventura has rights to receive (SWP Supplies), provided Metropolitan has capacity, and Ventura agrees to pay Metropolitan for wheeling Ventura's SWP Supplies. Metropolitan will receive Ventura's SWP Supplies at Metropolitan's SWP turnouts at Castaic Lake and deliver the water, under the terms of this Agreement, to Ventura at the Metropolitan-Calleguas connections.

2. <u>Quantity</u>. Ventura anticipates a need to wheel up to two thousand acre-feet per year of its SWP Supplies through Metropolitan's system to Calleguas for transmission by Calleguas to the C-V Interconnection Pipeline. The amount of water actually wheeled will depend upon availability of Ventura's SWP Supplies and Metropolitan's determination of available capacity to wheel that amount of water at the requested times.

3. <u>Delivery from Ventura to Metropolitan</u>. Ventura may make its SWP Supplies available to Metropolitan at Metropolitan's turnouts at Castaic Lake for wheeling to Calleguas, provided that Metropolitan determines, in its sole discretion, that Metropolitan has available system capacity to wheel Ventura's SWP Supplies to Calleguas, as scheduled pursuant to Section

6.

4. <u>Wheeling from Metropolitan to Calleguas</u>. Metropolitan will wheel Ventura's SWP Supplies that it receives and accepts from Ventura and deliver that amount, less 3% to account for Metropolitan's system losses, to Calleguas at Metropolitan's Service Connections CA-01, CA-02, or CA-03, as scheduled by mutual agreement between Metropolitan, Calleguas, and Ventura pursuant to Section 6. System losses shall be subject to review and modification every 5 years. Metropolitan does not agree to store Ventura's SWP Supplies or to delay or accelerate deliveries on a schedule different than its receipt of Ventura's SWP Supplies; a separate agreement would be required if Ventura requires any storage or flexibility in scheduling deliveries of wheeled water that do not correspond to the time it makes its SWP Supplies available to Metropolitan. The water wheeled for Ventura will necessarily pass through Metropolitan's Joseph Jensen Water Treatment Plant and will therefore be treated at the Plant. The price Ventura pays in Section 12(a) includes Metropolitan's cost to treat the water.

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5. Delivery from Calleguas to Ventura. Calleguas will deliver the Ventura SWP Supplies it receives from Metropolitan to Ventura at the connection to the new C-V Interconnection Pipeline, less 0.5% to account for Calleguas system losses, pursuant to a separate agreement. System losses shall be subject to review and modification every 5 years. Ventura will install a meter at the Ventura connection to the C-V Interconnection Pipeline that meets Metropolitan's specifications, which Calleguas will own, operate, and maintain, to measure deliveries from Calleguas to Ventura. Calleguas shall submit a meter report as shown in Exhibit A on or about the last day of each calendar month for billing purposes. The meter shall measure flow within an accuracy of two (2) percent and shall be available for testing by Metropolitan upon reasonable notice. Metropolitan will be allowed to receive near real-time and historical flow data, at its sole discretion, from Calleguas's purveyor website, with the cost of the necessary equipment and installation, and flow signal telemetry paid for in advance by Ventura. Calleguas shall be responsible for maintenance of the meter and communications system and shall provide calibration records to Metropolitan annually.

6. <u>Scheduling of Deliveries</u>. The Parties will cooperate to arrange for scheduling wheeling of the water. Ventura will provide an estimate and draft schedule of its SWP Supplies to be delivered to Metropolitan and Calleguas in the upcoming calendar year, by December 7 of each year. Ventura may also request, in writing, wheeling of its SWP Supplies throughout the

year, as supplies become available to Ventura. The annual estimate or the individual requests throughout the year will specify the desired flow rate, start date and time, and anticipated duration of the delivery. Within fourteen (14) days, Metropolitan and Calleguas will either propose an alternate schedule to Ventura, accept the schedule, or determine that they have no available capacity for the requested wheeling under this Agreement and under the Calleguas and Ventura agreement. The Parties agree that Metropolitan retains the right to modify any scheduled wheeling transaction due to its operational and maintenance needs with no liability to Metropolitan.

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7. Metropolitan's Determination of Available Capacity. Under current conditions, the amount of water to be wheeled under this agreement is not significant compared to Metropolitan's system capacity and therefore, Metropolitan anticipates it will be able to accommodate Ventura's wheeling requests under this Agreement. However, Metropolitan does not guarantee the availability of capacity at any time during the term of this Agreement. Metropolitan agrees that it will evaluate and determine on a yearly basis and, upon receiving a request for wheeling under this Agreement, the amount and availability of unused capacity available to wheel water pursuant to this Agreement. In making its determination, Metropolitan may consider the following factors, which are not exhaustive of all relevant factors to be considered: (i) priority to be given for use of its system for deliveries to its member agencies, (ii) transportation of water for storage, treatment, or system operations, (iii) other uses of the system by its member agencies for any purpose, including emergencies, and (iv) system shutdowns, whether scheduled or unexpected. Metropolitan will not wheel water under this Agreement during any shutdown impacting Calleguas, unless otherwise agreed to by the Parties in writing. Metropolitan has no obligation to increase capacity on its system to wheel water to Ventura under this Agreement. Metropolitan's Board of Directors has delegated the authority to its General Manager to make such determinations and findings for purposes of this Agreement at the time wheeling is requested. The General Manager's determinations and finding will be substantiated in writing to the Parties.

8. <u>Permits and Other Requirements</u>. Ventura shall be solely responsible for obtaining any permits, environmental requirements, or approvals necessary for the transfer of its SWP Supplies to Metropolitan and wheeling through Metropolitan's system under this agreement, including any necessary agreements or approvals by the Department of Water

Resources (DWR), any applicable requirements pursuant to the California Environmental Quality Act (CEQA), and compliance with any applicable provisions of California Water Code Sections 1810-1814 (the Wheeling Statutes).

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9. <u>Water Quality</u>. Ventura's SWP Supplies originate from and will be delivered to Metropolitan in the same manner as Metropolitan receives its own SWP water at the Castaic Lake turnouts and is therefore no different in water quality than Metropolitan's SWP water. Metropolitan will deliver water under this Agreement that meets the same quality standards of water it delivers to Calleguas. The water delivered to Ventura may consist of SWP water commingled with Colorado River or any other water in Metropolitan's system. Metropolitan is not responsible for the quality of water delivered beyond the point of delivery at Metropolitan's Calleguas Service Connections CA-01, CA-02, and CA-03.

10. <u>Use of Water</u>. Calleguas and Ventura may not sell, lease, or transfer Ventura's SWP Supplies for use within Metropolitan's service area. Calleguas may not use Ventura's SWP Supplies within its service area, unless such use is otherwise agreed to in a separate writing by Metropolitan, Calleguas, and Ventura.

11. <u>Audit</u>. Calleguas and Ventura will accurately maintain records of all water deliveries under this Agreement. Upon Metropolitan's request, Calleguas and Ventura will submit such records to Metropolitan within seven (7) days for review and approval.

12. <u>Price</u>.

(a) The price Ventura will pay Metropolitan to wheel water from Metropolitan's turnouts at Castaic Lake to Metropolitan's Calleguas Service Connections CA-01, CA-02, and CA-03 will be \$1,105 in calendar year (CY) 2025 and \$1,215 in CY 2026. The price for CYs 2025 and 2026 were determined by Metropolitan based on the published transportation-related rate elements, the System Access Rate and the System Power Rate, and the published Treatment Surcharge.

The price for CY 2027 will be based on the 2026 wheeling price of \$1,215 plus a percentage increase equal to the Consumer Price Index for All Urban Consumers (CPI-U) series "Water and sewerage maintenance in U.S. city average, all urban consumers, not seasonally adjusted." The price for every year thereafter will be based on the wheeling price for the previous year plus a percentage increase equal to the CPI-U.

The price for the first five calendar years is summarized below to reflect examples of the annual

increase:

2025 = \$1,105 2026 = \$1,215 2027 = \$1,215 + (\$1,215 * CPI-U%) 2028 = 2027 wheeling price + (2027 wheeling price * CPI-U%) 2029 = 2028 wheeling price + (2028 wheeling price * CPI-U%)

In the event the CPI-U used in this agreement is no longer available, the parties will meet and confer to select a new escalator. Pending agreement regarding a new escalator, the annual increase will be calculated based on the average increase over the years from the beginning of the agreement to the year in which the applicable CPI-U is no longer available.

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(b) The Parties agree that they have evaluated the anticipated wheeling transactions under this Agreement and determined that the volumetric price term under this Agreement constitutes a negotiated fair price for the transaction. The Parties agree they have not identified and do not claim the wheeling transactions under this Agreement provide any offsetting benefits to Metropolitan that would reduce Metropolitan's transportation-related costs and therefore the price in this Agreement.

(c) The Parties agree that if a court of competent jurisdiction makes a final determination that the price Ventura pays Metropolitan under Section 12(a) is invalid, then this Agreement is terminated.

13. <u>Invoicing and Payment</u>.

(a) Metropolitan shall bill Ventura for an amount of wheeling determined by the meter reading at the C-V Interconnection Pipeline on the last day of each month, adding the losses attributable to wheeling of the water on the Calleguas system (0.5%) and the losses attributable to wheeling on Metropolitan's system (3%). Any wheeling transaction that takes place during the billing month that is not recorded in time for billing purposes on the last day of the month shall be included in the following month's bill. Metropolitan will submit monthly invoices to Ventura, with a copy to Calleguas, electronically using the same billing processes and timeline provided for in Metropolitan's Administrative Code for bills to Metropolitan's member agencies.

(b) <u>Certification and Billing to Calleguas</u>. Calleguas shall submit Exhibit A for certification purposes pursuant to this Agreement consistent with Metropolitan's Administrative

Code, sections 4506 to 4507. The water delivered to Calleguas for wheeling to Ventura under this Agreement will be recorded as being delivered to Calleguas, but will be credited in the bill for water service from Metropolitan to Calleguas so as to not charge Calleguas for the water. Metropolitan's deliveries of water wheeled under this Agreement for Ventura do not constitute a water sale or other service provided from Metropolitan to Ventura or to Calleguas. Wheeling transactions under this Agreement shall not be treated as sales to Calleguas for purposes of any rates or charges owed to Metropolitan, including the Readiness-to-Serve Charge. Calleguas will be responsible for charges related to minimum and maximum flow rate exceedances at Metropolitan's Calleguas Service Connections CA-01, CA-02, and CA-03 as described in Metropolitan's Administrative Code Section 4504.

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14. <u>Discovery of Mistakes or Errors</u>. In the event a mistake or error is discovered in a water delivery record, the Parties will cooperate to correct the mistake or error. However, no mistake or error made more than three years prior to its discovery will be corrected unless otherwise agreed to by the Parties in writing.

15. <u>Disputes</u>. In the event that Ventura or Calleguas disputes the total amount of water delivered, the charges for water delivered, and the total amount due and owing, all as determined by Metropolitan, such amounts due must be paid in full and timely while the dispute is being resolved. If the Parties, a court of law, or other entity with jurisdiction over Metropolitan determines any moneys paid by Ventura to Metropolitan must be returned to Ventura, then Metropolitan will return the funds and no interest will be owed by Metropolitan on that money. The Parties agree this provision constitutes a stipulated pre-judgment interest agreement for purposes of California Civil Code Section 3289 and agree that the interest rate is 0%.

16. <u>Commencement</u>. This Agreement is effective on the date that the last party has executed the Agreement.

17. <u>Termination</u>.

(a) This Agreement terminates on December 31, 2055 or upon the termination of the current State Water Contracts with DWR, whichever comes first.

(b) Notwithstanding Section 17(a), this Agreement may be terminated, or a Party may withdraw from the Agreement at any time, provided the Party gives 120 days written notice and all wheeling transactions in progress are completed.

18. <u>Force Majeure</u>. If the performance, in whole or in part, of the obligations of the

Parties, to wheel water under this Agreement is prevented: by acts or failures to act of DWR or any agency, court, or other government authority (other than the Parties), or any other person; by natural disaster (such as earthquake, fire, drought, or flood), contamination or outbreak of a water borne disease, war, strike, lockout, act of God, act of civil or military authority; by the operation of applicable law; or by any other cause beyond the control of the affected Parties, whether similar to the causes specified herein or not; then, in any such circumstances, the obligation of the affected Parties to wheel water under this Agreement shall be suspended from the time and to the extent that the performance thereof is prevented, but reasonable diligence shall be observed by the affected Parties, so far as it lies in their power, in performing such respective obligations in whole or in part under this Agreement. In the event such performance of any of the Parties under this Agreement is prevented as described above, then during the period of such prevention, performance by the non-affected Parties under this Agreement shall be excused until such prevention ceases, at which time all the Parties shall become obligated to resume and continue performance of their respective obligations hereunder during the term of this Agreement. No such prevention shall suspend or otherwise affect any payment obligations for water actually wheeled or any obligation of any Party to indemnify the other Parties pursuant to Section 20.

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19. <u>Applicable Laws</u>. This Agreement shall be governed by and construed in accordance with the laws of the State of California.

20. <u>Indemnification</u>.

(a) Ventura will defend, indemnify, and hold harmless Metropolitan and Calleguas against any claims concerning actions taken prior to Metropolitan assuming control of the water at Metropolitan's turnouts at Castaic Lake, concerning actions after Ventura assumes control of the water upon delivery to Ventura by Calleguas, and for any other activities under the exclusive control of Ventura.

(b) Metropolitan will defend, indemnify, and hold harmless Ventura and Calleguas against any claims concerning actions after Metropolitan assumes control of the water at Metropolitan's turnouts at Castaic Lake and prior to Calleguas assuming control of the water at Metropolitan's Calleguas Service Connections CA-01, CA-02, and CA-03, and for any other activities under the exclusive control of Metropolitan.

(c) Calleguas will defend, indemnify, and hold harmless Metropolitan against any

claims concerning actions after Calleguas assumes control of the water at Metropolitan's Calleguas Service Connections CA-01, CA-02, and CA-03 and prior to delivery to Ventura and for any other activities under the exclusive control of Calleguas.

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(d) Ventura will defend, indemnify, and hold harmless Metropolitan and Calleguas against any claims alleging wheeling under this Agreement violates any law, including CEQA, the Wheeling Statutes, and any other laws.

(e) Notwithstanding anything in this Agreement to the contrary, each Party agrees to proceed with reasonable diligence and use reasonable good faith efforts to jointly defend any lawsuit or administrative proceeding initiated by any person other than the Parties challenging the legality, validity, or enforceability of this Agreement.

21. <u>No Third-Party Rights</u>. This Agreement is made solely for the benefit of the Parties. No other person or entity may have or acquire any right by virtue of this Agreement.

22. <u>Ambiguities</u>. Each Party and its counsel have participated fully in the drafting, review, and revision of this Agreement. No rule of construction to the effect that ambiguities are to be resolved against the drafting Party shall be applied in the interpretation of this Agreement or any amendments or modifications thereof.

23. <u>Entire Agreement</u>. This Agreement constitutes the final, complete, and exclusive statement of the terms of the agreement among the Parties pertaining to the wheeling of water and supersedes all prior and contemporaneous understandings or agreements of the Parties. No Party has been induced to enter into this Agreement by, nor is any Party relying on, any representation or warranty outside those expressly set forth in this Agreement.

24. <u>Counterparts</u>. This Agreement may be executed in two or more counterparts, each of which, when executed and delivered, shall be an original and all of which together shall constitute one instrument, with the same force and effect as though all signatures appeared on a single document.

25. <u>Modification Only in Writing</u>. This Agreement may only be changed by written amendment signed by all Parties. Any oral representations or modifications concerning this Agreement shall be of no force or effect.

26. <u>Notification</u>. Unless and until changed by notification given in accordance with this Section, any notice, demand, or request to be given under or pursuant to this Agreement shall be given in writing at the physical addresses set forth below by personal service; overnight

courier; or registered or certified, first-class mail, return receipt requested, or via electronic mail at the email address set forth below:

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If to Metropolitan:

The Metropolitan Water District of Southern California P.O. Box 54153 Los Angeles, CA 90054-0153 Attention: General Manager

If to Calleguas:

Calleguas Municipal Water District 2100 Olsen Road Thousand Oaks, CA 91360-6800 Attention: General Manager

If to City of Ventura:

City of Ventura 501 Poli Street City Hall Ventura, CA 93002-0099 Attention: City Manager

27. <u>Dispute Resolution</u>. The Parties agree to use their best efforts to prevent and resolve disputes by good faith cooperation and negotiation. In the event that any dispute arises among two or more Parties relating to this Agreement or the rights and obligations arising from this Agreement, the aggrieved Party or Parties shall provide written notice to the other Parties of the dispute. Within forty-five (45) days after such written notice, the Parties involved in the dispute shall attempt in good faith to resolve the dispute through informal means. If the Parties cannot agree upon a resolution of the dispute within forty-five (45) days from the providing of written notice specified above, the Parties involved in the dispute may decide to submit the dispute to mediation prior to commencement of any legal action. If the Parties involved in the

dispute agree to mediation, they shall select a neutral third-party mediator with appropriate expertise to mediate the dispute and the cost of mediation shall be paid in equal proportion among the Parties involved in the dispute. If no mediation is held or upon completion of any mediation that is held, if the controversy has not been resolved, any Party may exercise all rights to bring a legal action relating to the dispute.

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28. <u>Representation by Counsel</u>. Each Party acknowledges that it has been represented by legal counsel of its choice throughout the negotiations which preceded the execution of this Agreement and that it has executed this Agreement with the consent and on the advice of such legal counsel. Each Party further acknowledges that it and its counsel have had adequate opportunity to make whatever investigation or inquiry they may deem necessary or desirable in connection with the subject matter of this Agreement prior to the execution hereof and the delivery and acceptance of the consideration specified herein.

29. <u>Joint Drafting</u>. This Agreement has been jointly negotiated and drafted. The language of this Agreement shall be construed as a whole according to its fair meaning and not strictly for or against any Party.

30. <u>Signing Authority</u>. Each person executing this Agreement on behalf of a Party warrants and represents to the other Parties that he or she is duly authorized to execute this Agreement on behalf of such Party and has the authority to bind their Party to the performance of its obligations hereunder.

[signatures on following page]

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Deven N. Upadhyay	Dated
Interim General Manager	
APPROVED AS TO FORM:	
APPROVED AS TO FORM:	
Marcia L. Scully	Dated
General Counsel	
CALLEGUAS MUNICIPAL WATER DI	STRICT
Kristine McCaffrey	Dated
General Manager	Dated
General Manager	
APPROVED AS TO FORM:	
Walter E. Wendelstein	Dated
District Counsel	
CITY OF SAN BUENAVENTURA	
Bill Ayub	Dated
City Manager	Duicd
APPROVED AS TO FORM:	
Javan N. Rad, City Attorney	
D ₁ /2	
By: Miles Hogan	Dated
Senior Assistant City Attorney	Datta
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Attachment 2, Page 13 of 13

EXHIBIT A

Calleguas-Ventura (C-V) Interconnection Pipeline Deliveries For the month of August 2025				
Deliveries Meter C-V Interconnection	Start Read 7/31/2025 XXXX	End Read 8/31/2025 XXXX	Delivered 234.0 Acre-Feet	
Delivery to C-V Interconnection ^a Calleguas System Loss at 0.5% ^b Delivery to Calleguas for Ventura ^c Metropolitan System Loss at 3% ^d Delivery to Metropolitan for Ventura ^e	Volume(acre-feet) 234.0 1.2 235.2 7.3 242.5	Rate (\$/acre-foo \$1,105	t) Total \$267,962.50	
a - Water delivered by Calleguas to Ventur b - Calleguas system loss calculated as 0.5 c - Water delivered by Metropolitan to Cal d - Metropolitan system loss calculated as e - Water delivered to Metropolitan at Cas	% C (next footnote) leguas for Ventura = C = V / (1 - 0.00 3% M (next footnote)	.03)		
	uas to Ventura			
Signed by:Nam	e, Title ipal Water District	Date:		

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One Water & Adaptation Committee

Agreements with the City of Buenaventura and Calleguas Municipal Water District for wheeling and emergency delivery of State Water Project water

Item 7-4 March 10, 2025

Item 7-4

Authorize Wheeling and Emergency Water Exchange Agreements



Subject

Authorize the General Manager to enter into agreements with the City of Buenaventura and Calleguas Municipal Water District for wheeling and emergency delivery of State Water Project water; the General Manager has determined that the proposed action is exempt or otherwise not subject CEQA

Purpose

Proposed wheeling of up to 2,000 acre-feet per year of City of Buenaventura (Ventura) State Water Project (SWP) water through Metropolitan's system and the proposed delivery of water supplies during emergencies between Calleguas Municipal Water District (Calleguas) and Ventura

Recommendation and Fiscal Impact

Staff recommends authorizing the General Manager to enter into agreements with the City of Buenaventura and Calleguas Municipal Water District for wheeling and emergency delivery of State Water Project water.

Metropolitan will receive financial compensation to cover its costs provided for in the wheeling agreement. There is no fiscal impact in allowing the water deliveries during emergencies



Increasing Resilience in Ventura County

Parties to the two Proposed Agreements



City of San Buenaventura (Ventura)

- State Water Project (SWP) supplies via the Ventura County Watershed Protection District
- No physical connection to the SWP facilities

Calleguas Municipal Water District (Calleguas)

- Metropolitan's member agency
- Partner with Ventura on the interconnection pipeline connecting Calleguas and Ventura

Metropolitan Water District (Metropolitan)

• SWP contractor with connections at Castaic Lake

Wheeling SWP Water for Ventura Ventura has rights to SWP water via the Ventura County Watershed Protection District



Metropolitan

- Takes delivery of Ventura SWP • water at Castaic
- Wheels water via Foothill Feeder
- Treats water at Jensen
- Delivers treated Ventura SWP water to Calleguas

Calleguas

- Takes delivery of treated Ventura SWP from Metropolitan
- Wheels water via its distribution • system
- Delivers treated Ventura SWP water • to Ventura

Metropolitan-Ventura-Calleguas

Proposed Wheeling Agreement Terms



Summary of the wheeling agreement

 Ventura proposes to receive up to 2,000 acre-feet per year of their SWP water via wheeling

Financial Compensation

- Wheeling price is a fixed dollar amount
 - For calendar year 2026 the price is \$1,215 per acre-foot
 - Annual increases based on a Consumer Price Index related to Water and Sewerage Infrastructure costs
- Ventura continues to pay its SWP charges

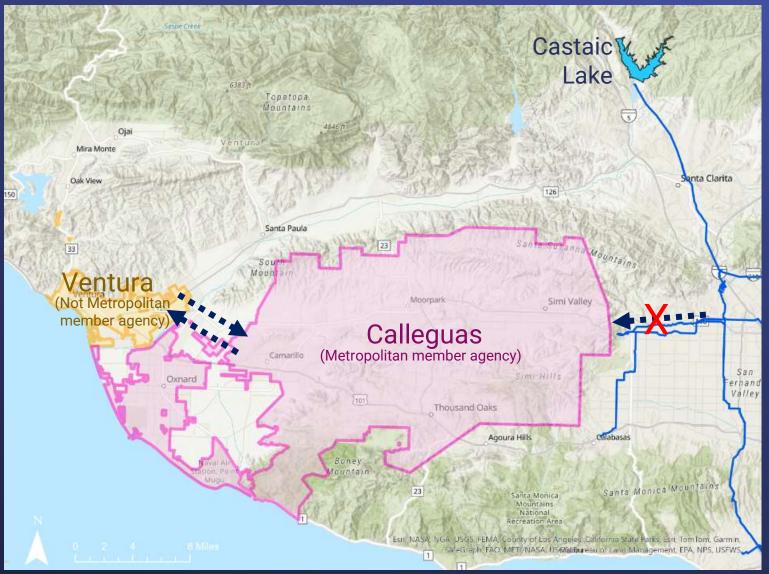
Operational Considerations

- Metropolitan staff will determine available capacity prior to wheeling
- System losses will be applied for the wheeled water
- Metropolitan will deliver treated water to Calleguas via existing service connections



Emergency Water Deliveries Calleguas receives imported supplies from Metropolitan via a single tunnel

- Would be allowed during • emergencies that prevent Metropolitan from delivering to Calleguas
- Ventura and Calleguas could borrow from each other during emergencies
- Since Ventura's supply might \bullet contain SWP water, authorization and consent from Metropolitan is needed





Metropolitan-Ventura-Calleguas

Proposed Emergency Water Deliveries Agreement Terms



Summary of the emergency use of SWP water agreement

- Calleguas and Ventura propose borrowing water from each other during emergency circumstances
- The agency borrowing the water will return an equal amount

Definition of Emergencies

- Planned and unplanned water service interruptions
- Emergencies do not include drought conditions

Scope of Metropolitan's obligations

- Limited to consent for water to be delivered in each other's (Ventura or Calleguas) service area
- No obligation for Metropolitan to make water available to Calleguas for emergency deliveries to Ventura or for return of water by Calleguas to Ventura

Metropolitan-Ventura-Calleguas

Clarifications on the Emergency Deliveries

No Sale of SWP Water

- Metropolitan is not granting authorization to Ventura to sell SWP water within Metropolitan service area
- Metropolitan is not selling SWP Water to Ventura

Water borrowed will be returned

- Metropolitan is authorizing Ventura to loan water (some may be SWP water) during an emergency
- Calleguas may purchase Metropolitan water at the full service rate to return to Ventura

Limited Consent

• Consent is limited to the scenarios described in the agreements



Board Options Option #1

Authorize the General Manager to enter into agreements with the City of San Buenaventura and Calleguas Municipal Water District for wheeling and emergency delivery of State Water Project water; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Option #2

Direct the General Manager not to enter into agreements under the proposed terms.



Staff Recommendation Option #1







THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Action

Board of Directors One Water and Adaptation Committee

3/11/2025 Board Meeting

7-6

Subject

Authorize the General Manager to enter into a Stormwater for Recharge Pilot Program agreement with the City of Anaheim with a maximum amount of up to \$980,000 for the State College Stormwater Tank Project; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

This letter seeks Board authorization to enter into a Stormwater for Recharge Pilot Program (Pilot Program) agreement with the City of Anaheim (Anaheim) with a maximum amount of up to \$980,000 for the construction and monitoring of the State College Stormwater Tank Project (Project). The proposed Project agreement, if approved, will allow for the reactivation and repurposing of approximately 10,000 linear feet of large-diameter abandoned wastewater pipe for stormwater runoff treatment, capture, and infiltration, and performs a minimum of three years of stormwater recharge monitoring and reporting. The proposed Project agreement would quantify stormwater capture and its relationship to water supply yield, which will contribute to the Metropolitan's evaluation and understanding of the potential water supply benefits delivered by stormwater capture projects throughout the service area.

Proposed Action(s)/Recommendation(s) and Options

Staff Recommendation: Option #1

Option #1

Authorize the General Manager to enter into a Stormwater for Recharge Pilot Program agreement with the City of Anaheim with a maximum amount of up to \$980,000 for the State College Stormwater Tank Project.

Fiscal Impact: Total costs of \$980,000 budgeted funds for eligible Project expenses and a three-year monitoring and reporting period. These payments will be taken from the approved \$7.5 million Recharge Pilot Program budget (Minute Item 51793, dated November 5, 2019; Water Stewardship Fund). **Business Analysis:** The Project agreement would help Metropolitan achieve the Recharge Pilot Program goal of understanding the relationship between stormwater capture and the water supply benefit of stormwater.

Option #2

Do not authorize the execution of an agreement for the State College Stormwater Tank Project. **Fiscal Impact:** None

Business Analysis: Metropolitan would pursue other projects, and it may take longer to meet the goals of the Recharge Pilot Program.

Alternatives Considered

Not applicable

Applicable Policy

Metropolitan Water District Administrative Code Section 8121: General Authority of the General Manager to enter Contracts

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

Related Board Action(s)/Future Action(s)

- Authorize \$7.5 million for a Stormwater for Recharge Pilot Program for developing and monitoring of stormwater for recharge projects (Minute Item, dated November 4, 2019; Water Planning and Stewardship Committee)
- Stormwater for Recharge Pilot Program agreement with Inland Empire Utilities Agency for the construction and monitoring of the Montclair Basins Improvement Project (Minute Item 52409, dated June 8, 2021; Water Planning and Stewardship Committee)
- Stormwater for Recharge Pilot Program agreement with Western Municipal Water District for the enhanced monitoring of the Victoria Recharge Basin Project (Minute Item 52271, dated February 9, 2021; Water Planning and Stewardship Committee)
- Stormwater for Recharge Pilot Program agreement with Central Basin Municipal Water District and the City of Bell Gardens (Minute Item 52272, dated February 9, 2021; Water Planning and Stewardship Committee)

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed action is exempt from CEQA because it involves the operation and minor alteration of existing public structures, facilities, and mechanical equipment involving negligible or no expansion of existing or former use and no possibility of significantly impacting the physical environment. (State CEQA Guidelines Section 15301.) The proposed action is exempt from CEQA because it consists of replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced. (State CEQA Guidelines Section 15302.)

CEQA determination for Option #2:

None

Details and Background

Background

Metropolitan's Integrated Water Resource Plans have indicated the need for the development of a diverse regional resource portfolio that emphasized local supply development. Over the years, Metropolitan has played an active role in the development of those local supplies through different approaches and programs developed over the years. Since 1982, Metropolitan has provided incentives to its member agencies to develop local projects through the Local Resources Program (LRP). Local stormwater capture projects currently are not funded through the LRP in part due to the need to have a better understanding of the connection between captured stormwater and yield. To clarify this connection, Metropolitan developed the Stormwater Pilot Program (Pilot Program). Participants of the Pilot Program develop stormwater capture projects with the intention to measure the quantity of stormwater runoff capture and how the captured stormwater provides for new usable groundwater yields. The Board approved the Pilot Program on November 5, 2019 (Board Letter 8-3). The Pilot Program application process launched on March 27, 2020. Agencies may submit applications to install monitoring equipment on existing projects or construct new projects. To date, the Pilot Program has received six applications, two for monitoring equipment installation and four for new construction projects.

Proposed Project

The City of Anaheim plans to reactivate approximately 10,000 linear feet of abandoned large-diameter wastewater pipe beneath State College Boulevard, between Orangewood and Wagner Avenues, to treat, capture, and infiltrate stormwater runoff. The Project will involve diverting stormwater flows to a hydrodynamic separator for pre-treatment before being discharged into the repurposed wastewater infrastructure. This will help reduce the burden on the overtaxed OCFCD E12 facility, assist the City in meeting Trash Capture MS4 requirements, and recharge the Orange County Aquifer with treated stormwater. By capturing and infiltrating a portion of stormwater flows from Sub-District 27, the Project will also reduce untreated runoff entering downstream watercourses and lessen total runoff volumes.

The Project is estimated to have the ability to capture approximately 65.8 acre-feet of stormwater annually, or 3,290 acre-feet over the Project's 50-year lifespan. Key components of the Project include the construction of a diversion structure to redirect runoff, the installation of an in-line stormwater treatment system to remove trash and sediment, and the construction of junction structures to connect to the State College tank. Additionally, wireless monitoring devices will be installed to track the amount of stormwater captured and recharged, and four existing manholes will be modified with clean-out orifice systems to regulate flow. The installation of 25 dry wells along the existing wastewater line will facilitate groundwater infiltration.

To monitor the effectiveness of the system, the City will install automated flow monitors in manholes along the wastewater line to measure both wet and dry weather flow rates. These measurements will help assess the volume of stormwater being infiltrated into the groundwater aquifer. The Project's modeling approach involves using the Hydraflow Hydrographs Extension for AutoCAD Civil 3D to predict the volume of stormwater and dry-weather runoff to be captured. These estimates will be compared with real-time data from the flow monitors to verify the accuracy of the modeled infiltration rates. This data will be used to optimize the system's performance over time and ensure the targeted groundwater recharge is achieved.

Funding Structure

The funding includes two components: construction and ongoing monitoring and reporting. This Project has requested funding for construction, monitoring, and reporting for a total of \$980,000

Component	Metropolitan	Anaheim	Total Project
Construction	\$850,000	\$1,509,090	\$2,359,090
Monitoring and reporting	\$130,000	\$0	\$130,000
Total	\$980,000	\$1,509,090	\$2,489,090

Staff recommends approval of the funding agreement as this Project is consistent with the objectives of the Board-approved Pilot Program.

2/25/2025 Brandon J. Goshi Date Intelim Manager, Water Resource Management 2/25/2025 ven N. Upadhyay Date General Manader

Ref# wrm12705210



One Water and Stewardship Committee

Anaheim State College Stormwater Tank Project

Item 7-6 March 10, 2025

Subject

Authorize the General Manager to enter into a Stormwater for Recharge Pilot Program Agreement with the City of Anaheim for a maximum amount of up to \$980,000 for the State College Stormwater Tank Project; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Purpose

Item 7-6

Slide

Introduction

contribute to the Metropolitan's evaluation and understanding of the potential water supply benefits delivered by stormwater capture projects throughout the service area.

Recommendations

Authorize: authorize staff to execute a Stormwater for Recharge Pilot Program Agreement with the City of Anaheim for the construction and monitoring of the State College Tank Project.

Fiscal Impact

Total costs of \$980,000 budgeted funds for eligible Project expenses and a three-year monitoring and reporting period. These payments will be taken from the approved \$7.5 million Recharge Pilot Program budget





Stormwater for Recharge Pilot Program



Item # 7-6 Slide 3 151

Goals of the Stormwater for Recharge Pilot

Evaluate water supply benefit

Establish link between capture and increased groundwater production or reduced replenishment

Monitor groundwater data for 3 years

Encourage robust long-term monitoring

Develop framework

Stormwater for Recharge Pilot Examples

Western Victoria Basins Enhancement Project

- \$0.5 million
- Agreement Executed in 2021
- Monitoring Only
- Completed Construction
- Completed 2 years of monitoring

IEUA Montclair Basins Improvement Project

- \$1 million
- Agreement Executed in 2022
- Construction
- Completed Phase 1 of Construction
- Delays due to collapse of San Antonio Channel.

New Stormwater Project today for consideration

Goals of the Anaheim State College Tank Project

- Assess the volume of stormwater being infiltrated into the groundwater aquifer
- Capture approximately 65AFY of stormwater
- Reactivate abandoned pipe for new development

Anaheim State College Stormwater Tank Project Construction of a diversion structure to redirect stormwater runoff

Install an in-line stormwater treatment system to remove trash and sediment

Install of 25 dry wells to facilitate groundwater infiltration

Wireless monitoring devices installation to track stormwater captured and recharged

Component	Metropolitan	Anaheim	Total Project
Construction	\$850,000	\$1,509,090	\$2,395,090
Monitoring and reporting	\$130,000	\$0	\$130,000
Total	\$980,000	\$1,509,090	\$2,489,090

Board Options: Anaheim State College Stormwater Tank Project

Option #1

 Authorize the General Manager to enter into a Stormwater for Recharge Pilot Program Agreement with the City of Anaheim with a maximum amount of up to \$980,000 for the State College Stormwater Tank Project

Option #2

• Do not authorize the execution of an agreement for the State College Stormwater Tank Project.

Staff Recommendation

• Option #1







THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Action

Board of Directors One Water and Adaptation Committee

3/11/2025 Board Meeting

7-7

Subject

Authorize the General Manager to forbear water conserved by two Coachella Valley Water District projects, thus allowing the conserved water to be added to Lake Mead under the U.S. Bureau of Reclamation's Lower Colorado River Basin System Conservation and Efficiency Program; the General Manager has determined the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

Staff seeks authorization for the General Manager to forbear water conserved by two Coachella Valley Water District (CVWD) projects, thus allowing the conserved water to be added to Lake Mead pursuant to funding provided by the U.S. Bureau of Reclamation's (Reclamation) Lower Colorado River Basin System Conservation and Efficiency Program (LC Conservation Program). Staff specifically seeks authorization to forbear the following actions: (1) CVWD reducing groundwater replenishment by up to 35,000 acre-feet in 2026, and (2) up to 33,600 acre-feet related to the upgrade and construction of tertiary treatment facilities at the CVWD Water Reclamation Plant No. 4.

Proposed Action(s)/Recommendation(s) and Options

Staff Recommendation: Option #1

Option #1

Authorize the General Manager to forbear water conserved by two Coachella Valley Water District projects, thus allowing the conserved water to be added to Lake Mead under the U.S. Bureau of Reclamation's Lower Colorado River Basin System Conservation and Efficiency Program.

Fiscal Impact: None

Business Analysis: The agreement would forbear additional system conservation to augment Colorado River supplies at no additional cost to Metropolitan.

Option #2

Do not enter into the forbearance agreement under the proposed terms.

Fiscal Impact: None

Business Analysis: Metropolitan would forego an opportunity to augment Colorado River water supplies to reduce the risk of future curtailment.

Alternatives Considered

No alternatives were considered.

Applicable Policy

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

By Minute Item 53051 in December 2022, Metropolitan's Board adopted legislative priorities and principles to support the funding of conservation projects to enhance the resiliency of the Colorado River System to reduce the risk of Lake Mead and Lake Powell falling below critical elevations.

Related Board Action(s)/Future Action(s)

By Minute Item 53447 in November 2023, Metropolitan's Board approved a similar action for system conservation created by CVWD and IID in 2023 to be left in Lake Mead as system water under Reclamation's LC Conservation Program.

By Minute Item 53752 in August 2024, Metropolitan's Board approved forbearance for system conservation created by CVWD and IID between 2024-2026 to be left in Lake Mead as system water under Reclamation's LC Conservation Program.

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed action is not defined as a project under CEQA because it will not result in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment. (State CEQA Guidelines Section 15378(a)).

CEQA determination for Option #2:

None required

Details and Background

Background

Metropolitan often collaborates with other agencies to provide system water to Lake Mead. Most recently, Metropolitan has been collaborating with other agencies on a variety of projects under Reclamation's LC Conservation Program. Under these collaborative efforts, two California forbearance agreements have been signed. The first is the December 11, 2023, California Forbearance Agreement which covered LC Conservation Program activities in California in calendar year 2023. The second is the November 13, 2024, California Forbearance Agreement which covered LC Conservation Program activities within California, that existed at the time of the agreement, between calendar years 2024 and 2026.

California Forbearance Agreement for LC Conservation Program Agreements

Since the November 13, 2024, California Forbearance Agreement was signed, CVWD developed two new conservation agreements under the LC Conservation Program. One of these agreements is under Bucket 1 of the LC Conservation Program, while the other is under Bucket 2. In order for water conserved under these agreements to be left in Lake Mead, Metropolitan must forbear water generated from both agreements.

First, forbearance is needed for water conserved pursuant to an amendment of an existing agreement between Reclamation and CVWD to fund a reduction in groundwater replenishment by up to 35,000 acre-feet per year at \$400 per acre-foot. The existing system conservation agreement covers 2023-2025. This amendment would extend the system conservation agreement to cover 2026 under the same volume and price terms.

Second, forbearance is needed for water conserved pursuant to an agreement between Reclamation and CVWD to upgrade Water Reclamation Plant No. 4 so that it can provide tertiary treated water for reuse within CVWD. Under this agreement, CVWD would upgrade/construct tertiary treatment facilities at the Water Reclamation Plant No. 4, thereby reducing its long-term demand for Colorado River water. CVWD expects that the tertiary treatment facilities will begin saving water in 2029. CVWD will use that savings to create system conservation water in Lake Mead at a rate of 1,120 acre-feet per year for 30 years, for a total of 33,600 acre-feet. CVWD would

also have the option to pre-deliver conserved water to Lake Mead through another accepted conservation effort, such as replenishment curtailment.

Forbearance is necessary for these actions because, under the California priority system, Colorado River water conserved by a higher-priority user is available to the next lower-priority user. For additional background on the purpose and mechanics of a forbearance by Metropolitan, please see the June 2024 presentation on that subject, available at:

https://mwdh2o.legistar.com/View.ashx?M=F&ID=13012478&GUID=5C7533D3-F668-4FC6-A12E-EACEF0DF52DD.

Benefits

With the forbearance of these two additional conservation programs, up to 68,600 AF of water will be added to Lake Mead. Metropolitan and other Colorado River water users benefit from increased Lake Mead elevation, power generation, and reliability of Colorado River water supplies.

2/24/2025 Brandon J. Goshi Date Interim Manager, Water Resource Management 2/24/2025 Deven N. Up Date General Mahager

Ref# wrm12799069



One Water and Adaptation Committee

Authorize Forbearance of Conserved Colorado River Water

Item 7-7 March 10, 2025

Item 7-7

Authorize Forbearance of Conserved Colorado River Water

Subject

Authorize the General Manager to forbear water conserved by two Coachella Valley Water District projects, thus allowing the conserved water to be added to Lake Mead under the U.S. Bureau of Reclamation's Lower Colorado River Basin System Conservation and Efficiency Program; the General Manager has determined the proposed action is exempt or otherwise not subject to CEQA. **Purpose**

To obtain Board approval for agreements allowing water conserved by CVWD to be added to Lake Mead under Reclamation's LC Conservation Program.

Recommendation and Fiscal Impact

Authorize forbearance of water conserved by two Coachella Valley Water District Projects under the Lower Colorado River Basin System Conservation and Efficiency Program; No Fiscal Impact Budget

No budget impact

Background

November 2024

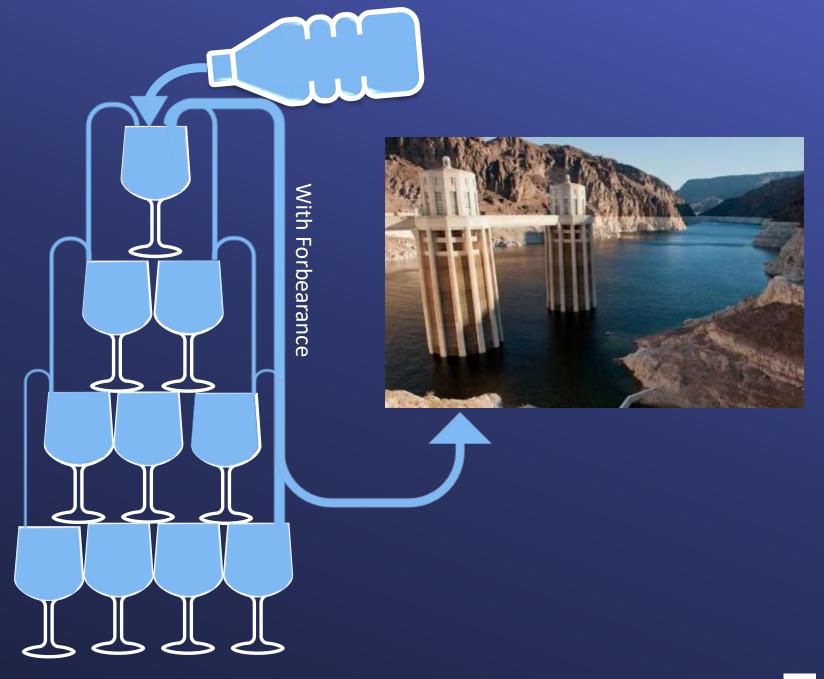
California Forbearance Agreement covering Bucket 1 LC Conservation Projects in 2024-2026

December 2023

California Forbearance Agreement covering Bucket 1 LC Conservation Projects in 2023 December 2024 CVWD developed two new LC Conservation Projects not covered by forbearance agreements



Forbearance Allows Conserved Water To be Moved Out of Priority





Metropolitan's Forbearance is Necessary

Forbearance agreements are the mechanism for ensuring conserved water stays in Lake Mead under the priority system

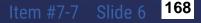


Extension of Groundwater Replenishment Reduction in CVWD



Extend Existing Agreement through 2026

- Reduction in groundwater replenishment deliveries
- USBR to fund up to 35,000 acre-feet in 2026
- Verification through measured limited deliveries to Tom Levy Groundwater Recharge facility
 ✓ No impact to MWD's Advanced Delivery Account



Tertiary Treatment in CVWD



Tertiary Treatment at Water Reclamation Plant (WRP) No. 4

- Increased reuse results in decreased demand for Colorado River water
- USBR to fund construction of tertiary treatment at WRP No. 4
- CVWD to provide 33,600 AF of conserved water to Lake Mead
 - Tertiary Treated water from WRP No. 4
 - Prepayment through other conservation efforts (like forgoing replenishment)



Board Options

• Option #1

Authorize the General Manager to forbear water conserved by two Coachella Valley Water District projects, thus allowing the conserved water to be added to Lake Mead under U.S. Bureau of Reclamation's Lower Colorado River Basin System Conservation and Efficiency Program.

Option #2
 Do not enter into the forbearance agreement under the proposed terms.



Staff Recommendation

• Option #1







THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Action

• Board of Directors Finance, Affordability, Asset Management, and Efficiency

3/11/2025 Board Meeting

7-8

Subject

Review and consider the County of Riverside negative declaration and authorize the General Manager to execute a new ground license agreement with Verizon Wireless for up to 25 years for a new telecommunication site on Metropolitan's fee-owned property in the unincorporated community of Winchester, identified as County of Riverside Assessor Parcel Number 964-030-005; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

This action authorizes the General Manager to execute a new ground license agreement with Verizon Wireless for a new telecommunication site on Metropolitan's property just west of Lake Skinner in Riverside County (Attachment 1). The proposed telecommunication site will enhance cellular phone communication for staff and the general public in the area while bringing in additional revenue to Metropolitan.

Proposed Actions/Recommendations and Options

Staff Recommendation: Option #1

Option #1

Review and consider the County of Riverside negative declaration and authorize the General Manager to execute a new ground license agreement with Verizon Wireless for up to 25 years for a new telecommunication site on Metropolitan's fee-owned property in the unincorporated community of Winchester, identified as County of Riverside Assessor Parcel Number 964-030-005.

Fiscal Impact: Metropolitan will receive a one-time processing fee of \$9,000 and an annual license fee of \$51,000 with a 4 percent annual adjustment.

Business Analysis: The option will allow the use of Metropolitan's fee-owned parcel to generate additional revenue and facilitate a public benefit with the enhancement of local cellular phone communication.

Option #2

Do not authorize the license agreement.

Fiscal Impact: Metropolitan will forgo the opportunity to generate revenue.

Business Analysis: Metropolitan would be responsible for ongoing costs associated with weed abatement, trash removal, trespassing, security issues, and illegal dumping.

Alternatives Considered

Not applicable

Applicable Policy

Metropolitan Water District Administrative Code Section 8201: Authorization to General Manager

Metropolitan Water District Administrative Code Section 8230: Grants of Real Property Interests

Metropolitan Water District Administrative Code Section 8231: Appraisal of Real Property Interests

Metropolitan Water District Administrative Code Section 8232: Terms and Conditions of Management

By Minute Item 48766, dated August 16, 2011, the Board adopted fair market value policies for managing Metropolitan's real property assets.

Related Board Action/Future Action

Not applicable

Summary of Outreach Completed

Not applicable

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

Acting as the Lead Agency, the County of Riverside adopted a Negative Declaration on April 7, 2021, for Plot Plan No. 180013 for construction of a wireless communication facility for Verizon Wireless. The Negative Declaration concluded that all potential impacts associated with Plot Plan No. 180013 were less than significant. The environmental documentation is included in **Attachment 2**. (State CEQA Guidelines Section 15096)

The Board has reviewed and considered the Negative Declaration and adopts the findings of the Lead Agency.

CEQA determination for Option #2:

None required

Details and Background

Background

Metropolitan acquired the subject property in 1964 for the original construction of Lake Skinner and its related treatment plant and subsequent installation of San Diego Pipelines 3 and 4, which are located approximately 160 feet east of the proposed cell tower. The telecommunications site is located west of Washington Street between Benton and Auld Roads in the Winchester area of Riverside County. Metropolitan's Lake Skinner Treatment plant is on the east side of Washington Street. This proposed communication site has been identified as a coverage gap for telecommunications, and this site will help increase the reliability of transmitting communication data including emergency services in the area. Verizon will construct a 20-foot-wide access road to the cell tower site for a total of 8,615 sf on Metropolitan's property. Verizon Wireless will be responsible for the maintenance of this access road, weed abatement and landscaping.

The proposed license agreement will have the following key provisions:

- Subject to Metropolitan's paramount rights provision
- License area of 8,615 sf
- 10-year base term with three 5-year option(s) to renew by mutual consent
- An annual license fee of \$51,000 per appraised market rates
- Reappraisal every 5 years
- Annual fee increase of 4 percent
- Processing fee of \$9,000

C

2/28/2025 Date

Elizabeth Crosson Chief Sustainability, Resilience and Innovation Officer

2/28/2025 Deven N. Upad Date General Manager

Attachment 1 – Location Map

Attachment 2 – State CEQA Guidelines Section 15096

Ref# sri12702321



Attachment 1 – Location Map

COUNTY OF RIVERSIDE ENVIRONMENTAL ASSESSMENT FORM: INITIAL STUDY

7-8

Environmental Assessment (CEQ / EA) Number: CEQ180046 Project Case Type (s) and Number(s): Plot Plan No. 180013 Lead Agency Name: County of Riverside Planning Department Address: P.O. Box 1409, Riverside, CA 92502-1409 Contact Person: Tim Wheeler Telephone Number: 951-955-6060 Applicant's Name: Verizon Wireless Applicant's Address: 15505 Sand Canyon Road Building D1, Irvine CA 92618

I. PROJECT INFORMATION

Project Description: <u>Plot Plan No. 180013</u> is a proposal to construct a wireless communication facility consisting of a 70 foot high mono-pine for Verizon Wireless. The facility would consist of 12 panel antennas, two parabolic antenna dishes; one 4 foot and one 2 foot in diameter, 12 Remote Radio Units, two junction box units all mounted on the mono-pine tower. The tower is within a 700 square foot equipment lease area with a 15 KW DC generator and all enclosed by a 6 foot high decorative block wall with perimeter landscaping.

A. Type of Project: Site Specific \boxtimes ; Countywide \square ; Community \square ; Policy \square .

B. Total Project Area: 700 square feet of lease area

Residential Acres:	Lots:	Units:	Projected No. of Residents:
Commercial Acres: Industrial Acres: Other: 70 foot high tower	Lots: Lots:	Sq. Ft. of Bldg. Area: Sq. Ft. of Bldg. Area:	Est. No. of Employees: Est. No. of Employees:

C. Assessor's Parcel No(s): 964-030-005

Street References: The project site is located north of Auld Road, south of Benton Road, east of Moser Road, and west of Washington Street.

- **D. Section, Township & Range Description or reference/attach a Legal Description:** Township 7 South Range 2 West Section 4
- E. Brief description of the existing environmental setting of the project site and its surroundings: The site is currently vacant and is immediately surrounded by open space, agricultural uses and scattered single-family residential to the west, and a water treatment facility to the east.

II. APPLICABLE GENERAL PLAN AND ZONING REGULATIONS

A. General Plan Elements/Policies:

- 1. Land Use: The proposed project is consistent with the Community Development: Public Facilities (CD: PF) land use designation and other applicable land use policies within the General Plan.
- 2. Circulation: The project has adequate circulation to the site and is therefore consistent with the Circulation Element of the General Plan. Additionally, this is an unmanned wireless

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communication facility that will require occasional maintenance personnel to access the site. The proposed project meets all other applicable circulation policies of the General Plan.

3. Multipurpose Open Space: No natural open space land was required to be preserved within the boundaries of this project. The proposed project meets with all other applicable Multipurpose Open Space element policies.

7-8

- 4. Safety: The proposed project is not located within a fault zone but is located within a dam inundation zone. The project is not located within any other special hazard zone (area with high liquefaction potential, etc.). The proposed project has allowed for sufficient provision of emergency response services and safety measures to the project through the project design and payment of development impact fees. The proposed project meets with all other applicable Safety element policies.
- 5. Noise: Sufficient measures against any foreseeable noise sources in the area have been provided for in the design of the project. The project will not generate noise levels in excess of standards established in the General Plan or noise ordinance. The project meets all other applicable Noise Element Policies.
- 6. Housing: The project is for an unmanned wireless communication facility and the Housing Element Policies do not apply to this project.
- 7. Air Quality: The proposed project has been conditioned to control any fugitive dust during grading and construction activities. The proposed project meets all other applicable Air Quality element policies.
- 8. Healthy Communities: The project is for an unmanned wireless communication facility so the Healthy Communities Policies do not apply to this project.
- 9. Environmental Justice (After Element is Adopted): N/A not adopted.
- B. General Plan Area Plan(s): Southwest Area Plan (SWAP)
- C. Foundation Component(s): Community Development
- D. Land Use Designation(s): Community Development: Public Facilities (CD: PF)
- E. Overlay(s), if any: N/A
- F. Policy Area(s), if any: Highway 79
- G. Adjacent and Surrounding:
 - 1. General Plan Area Plan(s): Southwest Area Plan (SWAP)
 - 2. Foundation Component(s): Community Development (CD) and Rural (R)
 - Land Use Designation(s): Community Development: Public Facilities (CD: PF), Community Development: Commercial Tourist (CD: CT), Community Development: Medium Density Residential (CD: MDR), and Rural Residential (R: RR).
 - 4. Overlay(s), if any: N/A

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- 5. Policy Area(s), if any: Highway 79
- H. Adopted Specific Plan Information
 - 1. Name and Number of Specific Plan, if any: Winchester 1800, Specific Plan #286 (to the north)
 - 2. Specific Plan Planning Area, and Policies, if any: Planning Area 48 (to the north)

7-8

- I. Existing Zoning: Light Agriculture 10 Acre minimum (A-1-10)
- J. Proposed Zoning, if any: N/A
- K. Adjacent and Surrounding Zoning: SP #286 to the north, Light Agriculture 10 Acre minimum (A-1-10) to the west, Light Agriculture – 5 acre minimum (A-1-5) and Rural Residential (R-R) to the south, and Rural Residential (R-R) to the east.

III. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below (x) would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" or "Less than Significant with Mitigation Incorporated" as indicated by the checklist on the following pages.

Aesthetics	Hazards & Hazardous Materials	Recreation
Agriculture & Forest Resources	Hydrology / Water Quality	Transportation
Air Quality	Land Use / Planning	Tribal Cultural Resources
Biological Resources	Mineral Resources	Utilities / Service Systems
Cultural Resources	Noise	Wildfire
Energy	Paleontological Resources	Mandatory Findings of
Geology / Soils	Population / Housing	Significance
Greenhouse Gas Emissions	Public Services	

IV. DETERMINATION

On the basis of this initial evaluation:

A PREVIOUS ENVIRONMENTAL IMPACT REPORT/NEGATIVE DECLARATION WAS NOT PREPARED

I find that the proposed project **COULD NOT** have a significant effect on the environment, and a **NEGATIVE DECLARATION** will be prepared.

□ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project, described in this document, have been made or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

I find that the proposed project MAY have a significant effect on the environment, and an **ENVIRONMENTAL IMPACT REPORT** is required.

A PREVIOUS ENVIRONMENTAL IMPACT REPORT/NEGATIVE DECLARATION WAS PREPARED

I find that although the proposed project could have a significant effect on the environment, **NO NEW ENVIRONMENTAL DOCUMENTATION IS REQUIRED** because (a) all potentially significant effects of the proposed project have been adequately analyzed in an earlier EIR or Negative Declaration pursuant to applicable legal standards, (b) all potentially significant effects of the proposed project have

Page 3 of 36

been avoided or mitigated pursuant to that earlier EIR or Negative Declaration, (c) the proposed project will not result in any new significant environmental effects not identified in the earlier EIR or Negative Declaration, (d) the proposed project will not substantially increase the severity of the environmental effects identified in the earlier EIR or Negative Declaration, (e) no considerably different mitigation measures have been identified and (f) no mitigation measures found infeasible have become feasible.

I find that although all potentially significant effects have been adequately analyzed in an earlier EIR or Negative Declaration pursuant to applicable legal standards, some changes or additions are necessary but none of the conditions described in California Code of Regulations, Section 15162 exist. An **ADDENDUM** to a previously-certified EIR or Negative Declaration has been prepared and will be considered by the approving body or bodies.

☐ I find that at least one of the conditions described in California Code of Regulations, Section 15162 exist, but I further find that only minor additions or changes are necessary to make the previous EIR adequately apply to the project in the changed situation; therefore a **SUPPLEMENT TO THE ENVIRONMENTAL IMPACT REPORT** is required that need only contain the information necessary to make the previous EIR adequate for the project as revised.

I find that at least one of the following conditions described in California Code of Regulations. Section 15162, exist and a SUBSEQUENT ENVIRONMENTAL IMPACT REPORT is required: (1) Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; (2) Substantial changes have occurred with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or (3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the negative declaration was adopted, shows any the following:(A) The project will have one or more significant effects not discussed in the previous EIR or negative declaration;(B) Significant effects previously examined will be substantially more severe than shown in the previous EIR or negative declaration;(C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measures or alternatives; or,(D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR or negative declaration would substantially reduce one or more significant effects of the project on the environment, but the project proponents decline to adopt the mitigation measures or alternatives.

Signature

Tim Wheeler, Project Planner Printed Name December 22, 2021

Date

For: John Hildebrand TLMA Deputy Director - Interim Planning Director

V. ENVIRONMENTAL ISSUES ASSESSMENT

In accordance with the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000-21178.1), this Initial Study has been prepared to analyze the proposed project to determine any potential significant impacts upon the environment that would result from construction and implementation of the project. In accordance with California Code of Regulations, Section 15063, this Initial Study is a preliminary analysis prepared by the Lead Agency, the County of Riverside, in consultation with other jurisdictional agencies, to determine whether a Negative Declaration, Mitigated Negative Declaration, or an Environmental Impact Report is required for the proposed project. The purpose of this Initial Study is to inform the decision-makers, affected agencies, and the public of potential environmental impacts associated with the implementation of the proposed project.

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	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
AESTHETICS Would the project:				
 Scenic Resources a) Have a substantial effect upon a scenic highway corridor within which it is located? 				
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings and unique or landmark features; obstruct any prominent scenic vista or view open to the public; or result in the creation of an aesthetically offensive site open to public view?				
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?				

Source(s): Riverside County General Plan Figure C-8 "Scenic Highways"

Findings of Fact:

a) According to Southwest Area Plan Figure 9, Southwest Area Plan Scenic Highways, the nearest County Eligible Scenic Highway is I-215 located approximately 5.5 miles to the west of the Project site. Views of the Project site from I-215 are not possible due to distance, existing development and topography. Accordingly, the proposed Project would not have a substantial effect upon the corridor, and there will be no impacts.

b) The proposed Project is located on a 700 square-foot lease area within an approximately 38-acre vacant site. Under current conditions, the Project site is relatively flat and is regularly tilled to prevent overgrowth. As the site has previously been disturbed with a maintenance road, it is not likely that the proposed Project would have impacts substantially beyond the existing.

c) With respect to the visual character of the surrounding area, the proposed Project would be disguised as a monopine tower to blend in with trees in the vicinity of the Project site. Accordingly, the proposed Project would not substantially degrade the existing visual character of the site and its surroundings.

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As indicated above, the Project would not substantially damage scenic resources, including but not limited to, trees, rock outcroppings and unique or landmark features. Additionally, the Project would not obstruct any prominent scenic vista or view open to the public, or result in the creation of an aesthetically offensive site open to the public view. Impacts will be less than significant.

7-8

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

2. Mt. Palomar Observatory		
a) Interfere with the nighttime use of the Mt. Palomar Observatory, as protected through Riverside County Ordinance No. 655?		

Source(s): GIS database, Ord. No. 655 (Regulating Light Pollution)

Findings of Fact:

a) Riverside County Ordinance No. 655 identifies portions of the County that have the potential to adversely affect the Mt. Palomar Observatory. Specifically, Ordinance No. 655 identifies Zone A as comprising lands within a 15-mile distance of the observatory, while Zone "B" comprises lands located greater than 15 miles, but less than 45 miles from the observatory. The Project site is located approximately 20.14 miles northeast of the Mt. Palomar Observatory, and is therefore subject to the provisions of Ordinance No. 655, Zone B. Ordinance No. 655 requires methods of installation, definition, requirements for lamp source and shielding, prohibition and exceptions. The project incorporated the lighting requirements of the Riverside County Ordinance No. 655 into the proposed project design with shielding and directing the light directly into the lease area only. This will reduce the impacts to be less than significant.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

3. Other Lighting Issues a) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			
b) Expose residential property to unacceptable light levels?		\boxtimes	

Source(s): On-site Inspection, Project Application Description

Findings of Fact:

a-b) The proposed wireless communications facility will provide a service light to be used at the time of servicing the facility and on a timer. However, it will not create a new source of light or glare in the area and will not expose residential property to unacceptable light levels as the lighting is shielded and directed into the project lease area. Impacts will be less than significant.

Mitigation: No mitigation is required.

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	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Monitoring: No monitoring is required.				
AGRICULTURE & FOREST RESOURCES Would the project	t:	ST LA PETE	20035	
4. Agriculture a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland) as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				
b) Conflict with existing agricultural zoning, agricultural use or with land subject to a Williamson Act contract or land within a Riverside County Agricultural Preserve?				
c) Cause development of non-agricultural uses within 300 feet of agriculturally zoned property (Ordinance No. 625 "Right-to-Farm")?				
d) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use?				

<u>Source(s)</u>: Riverside County General Plan Figure OS-2 "Agricultural Resources," GIS database, and Project Application Materials.

Findings of Fact:

a) According to "Map My County," the project site is designated as "Farmland of Local Importance" and "Other Lands". However, the 700 square-foot lease area is located entirely within the portion of the Project site designated as "Other Lands." Areas surrounding the Project site are designated as "Urban-Built Land," "Other Lands," and "Farmland of Local Importance." No portion of the Project site or immediately surrounding areas contains "Prime Farmland," "Unique Farmland," or "Farmland of Statewide Importance." Accordingly, the Project would not result in the conversion of Farmland to a non-agricultural use, and there will be no impacts.

b) According to "Map My County," there are no lands on the Project site or in the off-site improvement areas that are located within an agricultural preserve. As such, the Project would have no impacts to any Riverside County Agricultural Preserves.

Additionally, according to mapping information available from the California Department of Conservation, the Project site is not subject to a Williamson Act Contract and is not located near a property subject to a Williamson Act Contract. There will be no impacts.

c) The Project site and the area immediately to the west of the Project site are zoned Light Agriculture – 10 acre minimum (A-1-10). However, the 700 square-foot lease area is not being utilized for any agriculture uses. Due to limited scale of the proposed Project and because the property is designated for Public Facility uses, impacts will be less than significant.

d) The project will not involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use. There will be no impacts.

Mitigation: No mitigation is required.

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- 7 0	B.1			
	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Monitoring: No monitoring is required.				
5. Forest a) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Govt. Code section 51104(g))?				
b) Result in the loss of forest land or conversion of forest land to non-forest use?				\boxtimes
c) Involve other changes in the existing environment which, due to their location or nature, could result in con- version of forest land to non-forest use?				
County Parks, Forests, and Recreation Areas," Project Applica <u>Findings of Fact</u> : a-c) No lands within the Project site are zoned for forest Timberland production. Therefore, the Project would have a timberland, or timberland zoned Timberland Production, nor we land or cause other changes in the existing environment which land to non-forest use. There will be no impacts.	land, timb no potentia ould the Pro	erland, or til to conflict ject result in	with forest the loss of	land, forest
<u>Mitigation</u> : No mitigation is required. <u>Monitoring</u> : No monitoring is required.				
AIR QUALITY Would the project:		A San		
6. Air Quality Impacts a) Conflict with or obstruct implementation of the applicable air quality plan?				
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non- attainment under an applicable federal or state ambient air quality standard?				
c) Expose sensitive receptors, which are located within one (1) mile of the project site, to substantial pollutant concentrations?			\boxtimes	
 d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? 				
<u>Source(s)</u> : Riverside County General Plan, Riverside Count CEQA Air Quality Handbook <u>Findings of Fact</u> :	y Climate A	ction Plan ("(CAP"), SCA	QMD

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Potentially	Less than	Less	No
Significant	Significant	Than	Impac
Impact	with	Significant	
• 40 H 0	Mitigation	Impact	
	Incorporated		

a) A significant impact could occur if the proposed project conflicts with or obstructs implementation of the South Coast Air Basin 2016 Air Quality Management Plan (AQMP). Conflicts and obstructions that hinder implementation of the AQMP can delay efforts to meet attainment deadlines for criteria pollutants and maintaining existing compliance with applicable air quality standards. Pursuant to the methodology provided in Chapter 12 of the 1993 South Coast Air Quality Management District CEQA Air Quality Handbook, consistency with the South Coast Air Basin 2016 AQMP is affirmed when a project (1) does not increase the frequency or severity of an air quality standards violation or cause a new violation and (2) is consistent with the growth assumptions in the AQMP. Consistency review is presented below:

(1) The proposed project will result in short-term construction and long-term pollutant emissions that are less than the CEQA significance emissions thresholds established by the SCAQMD, as demonstrated by the CalEEMod analysis conducted for the proposed site; therefore, the project will not result in an increase in the frequency or severity of any air quality standards violation and will not cause a new air quality standard violation.

(2) The CEQA Air Quality Handbook indicates that consistency with AQMP growth assumptions must be analyzed for new or amended General Plan Elements, Specific Plans, and significant projects. Significant projects include airports, electrical generating facilities, petroleum and gas refineries, designation of oil drilling districts, water ports, solid waste disposal sites, and offshore drilling facilities.

According to the consistency analysis presented above and the analysis presented in section b) below, the proposed project will not conflict with the AQMP. There will be no impacts.

b-c) The SCAQMD has also developed regional significance thresholds for regulated pollutants, as summarized in Table 1, *SCAQMD Regional Thresholds*. The SCAQMD's CEQA Air Quality Significance Thresholds (March 2015) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

Pollutant	Construction	Operational
Nox	100 lbs/day	100 lbs/day
VOC	75 lbs/day	75 lbs/day
PM ₁₀	150 lbs/day	150 lbs/day
PM _{2.5}	55 lbs/day	55 lbs/day
SOx	150 lbs/day	150 lbs/day
со	550 lbs/day	550 lbs/day

Table 1 SCAQMD Regional Thresholds

		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impac
Lead	3 lbs/day	3 lbs/o	hav.		1

It should be noted that all projects within the SCAB, including the proposed Project, would be required to comply with applicable state and regional regulations that have been adopted to address air quality emissions within the basin. This includes the following requirements pursuant to SCAQMD Rule 403:

• All clearing, grading, earth-moving, or excavation activities shall cease when winds exceed 25 mph per SCAQMD guidelines in order to limit fugitive dust emissions.

Additionally, the Project would be subject to Title 13, Chapter 10, Section 2485, Division 3 of the California Code of Regulations, which imposes a requirement that heavy duty trucks accessing the site shall not idle for greater than five minutes at any location. This measure is intended to apply to construction traffic. Any implementing grading plans would be required to include a note requiring a sign be posted on-site stating that construction workers need to shut off engines at or before five minutes of idling.

The proposed Project is not expected to exceed the maximum daily thresholds during the construction phase nor the operational phase. Impacts will be less than significant.

c) A sensitive receptor is a person in the population who is particularly susceptible to health effects due to exposure to an air contaminant than is the population at large. Sensitive receptors (and the facilities that house them) in proximity to localized CO sources, toxic air contaminants or odors are of particular concern. High levels of CO are associated with major traffic sources, such as freeways and major intersections, and toxic air contaminants are normally associated with manufacturing and commercial operations. Land uses considered to be sensitive receptors include long-term health care facilities, rehabilitation centers, convalescent centers, retirement homes, residences, schools, playgrounds, childcare centers, and athletic facilities. The nearest sensitive receptor is French Valley School located at 36680 Cady Rd, Winchester, CA 92596 at approximately .63 miles northwest of the Project site.

While the proposed Project would be located within one mile of sensitive receptors, any impacts would be less than significant based on the analysis above and due to the limited scale of the proposed Project. Impacts will be less than significant.

d) A sensitive receptor is a person in the population who is particularly susceptible to health effects due to exposure to an air contaminant than is the population at large. Sensitive receptors (and the facilities that house them) in proximity to localized CO sources, toxic air contaminants or odors are of particular concern. High levels of CO are associated with major traffic sources, such as freeways and major intersections, and toxic air contaminants are normally associated with manufacturing and commercial operations. Land uses considered to be sensitive receptors include but are not limited to long-term health care facilities, rehabilitation centers, convalescent centers, retirement homes, residences, schools, playgrounds, childcare centers, and athletic facilities. The proposed Project would not be located within one mile of an existing substantial point source emitter as none are known to exist in the immediate area. Land uses within one mile of the site comprise residential, commercial, schools, water treatment facility, and undeveloped lands, none of which are considered sources of point source emissions. Therefore, the project would not result in the construction of a sensitive receptor near a point source emitter. There will be no impacts.

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	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impac
The potential for the Project to generate objectionable odors have generally associated with odor complaints include: agricultural vastewater treatment plants; food processing plants; chemical efineries; landfills; dairies; and fiberglass molding facilities. The Project does not contain land uses typically associated with Potential odor sources associated with the proposed Project m exhaust and the application of asphalt and architectural coating emporary storage of typical solid waste (refuse) associated with	uses (livest plants; con th emitting o nay result fro gs during co	ock and fan nposting ope objectionable om construc onstruction a	ming); erations; e odors. tion equipm activities and	nent d the
operational) uses. Standard construction requirements would no construction. The construction odor emissions would be tempo nature and would cease upon completion of the respective pha considered less than significant. It is expected that Project-gen covered containers and removed at regular intervals in complia egulations. The proposed Project would also be required to co prevent occurrences of public nuisances. Impacts will be less to associated with the proposed Project construction and operation <u>Mitigation</u> : No mitigation is required.	minimize od prary, short- ase of const herated refu- ance with th pomply with S han signific	or impacts f term, and in ruction and se would be e County's s SCAQMD R	rom itermittent ir is thus stored in solid waste ule 402 to	1
	- M			1.15
BIOLOGICAL RESOURCES Would the project: 7. Wildlife & Vegetation		1 1		
 BIOLOGICAL RESOURCES Would the project: 7. Wildlife & Vegetation a) Conflict with the provisions of an adopted Habitat 				
 BIOLOGICAL RESOURCES Would the project: 7. Wildlife & Vegetation a) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, 				
 BIOLOGICAL RESOURCES Would the project: 7. Wildlife & Vegetation a) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state conservation plan? 				
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 BIOLOGICAL RESOURCES Would the project: 7. Wildlife & Vegetation a) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state conservation plan? b) Have a substantial adverse effect, either directly or through habitat modifications, on any endangered, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12)? c) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U. S. Wildlife Service? d) Interfere substantially with the movement of any native resident or migratory fish or wildlife corridors, or 				
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 BIOLOGICAL RESOURCES Would the project: 7. Wildlife & Vegetation a) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state conservation plan? b) Have a substantial adverse effect, either directly or through habitat modifications, on any endangered, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12)? c) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U. S. Wildlife Service? d) Interfere substantially with the movement of any native resident or migratory fish or wildlife corridors, or impede the use of native wildlife nursery sites? e) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local 				

f) Have a substantial adverse effect on State or federally protected wetlands (including, but not limited to,

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 \boxtimes

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				
g) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				

Source(s): GIS database, WRCMSHCP and/or CVMSHCP, On-site Inspection

Findings of Fact:

a) The Project site and the proposed lease area do not conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state conservation plan. The proposed Project is not subject to Criteria Area requirements and would not conflict with the provisions of the MSHCP [as stated in section b and c, shown below]. There will be no impacts.

b-c) The proposal will disturb approximately a 700 square foot lease area for the construction of the telecommunication tower and associated equipment. A biological assessment conducted by Michael Brandman Associates in December 2014 concluded that the Project site does not contain any suitable habitat in the proposed lease area for Munz's onion, San Diego ambrosia, many-stemmed dudleya, California Orcutt grass, spreading navarretia and Wright's trichocoronis. Based upon the absence of suitable habitat, no recommendations were made for the focused rare plant surveys. The Project site and the proposed lease area is located within a fallow field that appears to be routinely disced. The site contains no suitable nesting habitat for burrowing owl. The site lacks small mammal burrows and does not provide sufficient habitat for nesting. Therefore, focused surveys for burrowing owl are not recommended. Impacts will be less than significant.

Based on previous construction, the site is not anticipated to have habitat modifications, on any endangered, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12). Impacts will be less than significant.

d) The project will not interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident migratory wildlife corridors or impede the use of native wildlife nursery sites. There will be no impacts.

e-f) The project site does not contain riverine/riparian areas or vernal pools. There will be no impacts.

g) The proposed project will not conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. There will be no impacts.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
CULTURAL RESOURCES Would the project:			nit at a	
 8. Historic Resources a) Alter or destroy a historic site? 				\boxtimes
b) Cause a substantial adverse change in the significance of a historical resource, pursuant to California Code of Regulations, Section 15064.5?				

Source(s): On-site Inspection, Project Application Materials, PDA04904; 2014, Bonner; Cultural Resources Assessment Verizon Wireless Facility Candidate "Soledad Wine", Winchester, Riverside County, California

Findings of Fact:

a) Based upon analysis of records and a survey of the property by a County approved Archaeologist, it has been determined that there will be no impacts to historical resources as defined in California Code of Regulations, Section 15064.5 because they do not exist on the project site. There will be no impacts to historic resources.

b) Based upon analysis of records and a survey of the property by a County approved Archaeologist, it has been determined that there will be no impacts to significant historical resources as defined in California Code of Regulations, Section 15064.5 because they do not exist on the project site. As such, no change in the significance of historical resources would occur with the implementation of the proposed project because there are no significant historical resources. There will be no impacts.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

 Archaeological Resources a) Alter or destroy an archaeological site? 		\boxtimes	
b) Cause a substantial adverse change in the significance of an archaeological resource, pursuant to California Code of Regulations, Section 15064.5?		\boxtimes	
c) Disturb any human remains, including those interred outside of formal cemeteries?		\boxtimes	

Source(s): On-site Inspection, Project Application Materials. PDA04904; 2014, Bonner; Cultural Resources Assessment Verizon Wireless Facility Candidate "Soledad Wine", Winchester, Riverside County, California.

Findings of Fact:

a) Based upon analysis of records and a survey of the property it has been determined that there will be no impacts to archaeological resources as defined in California Code of Regulations, Section 15064.5 because there were no archaeological resources identified during the survey of the project site. Impacts will be less than significant.

Potentially	Less than	Less	No
Significant	Significant	Than	Impact
Impact	with	Significant	,
	Mitigation	Impact	
	Incorporated		

b) Based upon analysis of records and a survey of the property it has been determined that there will be no impacts to significant archaeological resources as defined in California Code of Regulations, Section 15064.5 because they do not occur on the project site. Therefore, no change in the significance of archaeological resources would occur with the implementation of the proposed project because there are no significant archaeological resources. Impacts will be less than significant.

c) Based on an analysis of records and archaeological survey of the property, it has been determined that the project site does not include a formal cemetery or any archaeological resources that might contain interred human remains. Nonetheless, the project will be required to adhere to State Health and Safety Code Section 7050.5 if in the event that human remains are encountered and by ensuring that no further disturbance occur until the County Coroner has made the necessary findings as to origin of the remains. Furthermore, pursuant to Public Resources Code Section 5097.98 (b), remains shall be left in place and free from disturbance until a final decision as to the treatment and their disposition has been made. This is State Law, is also considered a standard Condition of Approval and as pursuant to CEQA, is not considered mitigation. Impacts will be less than significant.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

ENERGY Would the project:	Las-	283.214	
10. Energy Impacts		\boxtimes	
a) Result in potentially significant environmental impacts due to wasteful, inefficient, or unnecessary			
consumption of energy resources, during project			
construction or operation?			
b) Conflict with or obstruct a State or Local plan for renewable energy or energy efficiency?		\boxtimes	
Tenewable energy of energy efficiency?			

Source(s): Source: Project implementation materials

Findings of Fact:

a-b) The proposed Project is an unmanned wireless communication facility. This use would increase consumption of energy for operation of facility equipment.

Planning efforts by energy resource providers take into account planned land uses to ensure the longterm availability of energy resources necessary to service anticipated growth. The proposed Project would develop the site in a manner consistent with the County's General Plan land use designations for the property; thus, energy demands associated with the proposed Project are addressed through longrange planning by energy purveyors and can be accommodated as they occur. Therefore, Project implementation is not anticipated to result in the need for the construction or expansion of existing energy generation facilities, the construction of which could cause significant environmental effects.

Implementation of the proposed Project is not expected to result in or conflict with applicable energy conservation plans. Impacts will be less than significant.

Mitigation: No mitigation is required.

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	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Monitoring: No monitoring is required.				
GEOLOGY AND SOILS Would the project directly or indirect	tly:	1 33 36	28-76-2	3.96
11. Alquist-Priolo Earthquake Fault Zone or County Fault Hazard Zones			\boxtimes	
a) Be subject to rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?				

<u>Source(s)</u>: Riverside County General Plan Figure S-2 "Earthquake Fault Study Zones," GIS database, Geologist Comments, Geology Report

Findings of Fact:

a) The Project site is not located within a currently designated State of California Alquist-Priolo Earthquake Fault Zone and no active faults have been identified on or adjacent to the site. In addition, the site does not lie within a fault zone established by the County of Riverside. According to County Geologic Report No. 2410, the nearest fault is located approximately 7.8 miles away from the project site. Therefore, the potential for active fault rupture at the site is considered very low and no direct seismically induced rupture impacts would occur. Additionally, the project is subject to the California Building Code (CBC) requirements pertaining to commercial development and thereby mitigating any potential impact to less than significant. CBC requirements are applicable to all commercial development, so they are not considered mitigation for CEQA implementation purposes. Impacts will be less than significant.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

12. Liquefaction Potential Zone Image: Construction Potential Zone a) Be subject to seismic-related ground failure, Image: Construction Potential Zone including liquefaction? Image: Construction Potential Zone

Source(s): Riverside County General Plan Figure S-3 "Generalized Liquefaction," Geology Report

Findings of Fact:

a) Seismically induced liquefaction occurs when dynamic loading of a saturated sand or silt causes pore-water pressures to increase to levels where grain-to-gran contact is lost, and material temporarily behaves as a viscous fluid. Liquefaction can cause settlement of the ground surface, settlement and tilting of engineered structures, flotation of buoyant structures, and fissuring of the ground surface. Typically, liquefaction occurs in areas where groundwater lies within the upper 50 +/- feet of the ground surface. According to "Map My County," the Project site is identified as having a "low" liquefaction susceptibility. Additionally, County Geologic Report No. 2410 found that is very low due to presence of fine grained clay and clayed silt layers. Adherence to CBC requirements are applicable to all commercial developments but are not considered mitigation for CEQA implementation purposes. Impacts will be less than significant.

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	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact			
Mitigation: No mitigation is required.							
Monitoring: No monitoring is required.							
13. Ground-shaking Zone a) Be subject to strong seismic ground shaking?			\boxtimes				
Source(s) : Riverside County General Plan Figure S-4 "Ear and Figures S-13 through S-21 (showing General Ground Sha		luced Slope	Instability	Map,"			
Findings of Fact:							
According to "Map My County," the Project site is not located line. As is common throughout Southern California, the potent shaking. However, with mandatory compliance with Section 1 the site will be designed and constructed to resist the effects of ground shaking impacts would be less than significant, and no less than significant.	tial exists for 613 of the c of seismic g	r strong seis urrent CBC, round motior	mic ground structures ns. Accordir	within ngly,			
Mitigation: No mitigation is required.							
Monitoring: No monitoring is required.							
14. Landslide Risk a) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, collapse, or rockfall hazards?							
Source(s): On-site Inspection, Riverside County General Place Slope," Geology Report	n Figure S-5	"Regions Ur	nderlain by	Steep			
Findings of Fact:							
a) Based on the relatively flat topography across the site and the surrounding area, the potential for landslides is considered low. The Project site has minimal possibilities of resulting in on- or off-site landslide, lateral spreading, collapse, or rock fall hazards. As noted in the comments from geological or geotechnical report (GEO02410) provided by the applicant, there is no potential for landslides, and seismic slope instability is not expected to occur at the project site. Impacts will be less than significant.							
Mitigation: No mitigation is required.							
Monitoring: No monitoring is required.							
 15. Ground Subsidence a) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in ground subsidence? 							
Page 16 of 36		C	EQ180046.				

Potentially Significant	Less than Significant	Less Than	No Impact
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Source(s): Riverside County General Plan Figure S-7 "Documented Subsidence Areas Map," Geology Report

Findings of Fact:

a) The effects of area subsidence generally occurs at the transition of boundaries between low-lying areas and adjacent hillside terrain, where materials of substantially different engineering properties (i.e. alluvium vs. bedrock) are present. According to "Map My County," the Project site is mapped as susceptible to subsidence. However, County Geologic Report No. 2410 concluded that subsidence should not be considered a hazard. Additionally, California Building Code (CBC) requirements pertaining to development would reduce any potential impact. Through the CBC, the State provides a minimum standard for building design and construction. The CBC contains specific requirements for seismic safety, excavation, foundations, retaining walls, and site demolition. It also regulates grading activities, including drainage and erosion control. Adherence to CBC requirements are applicable to all commercial developments but are not considered mitigation for CEQA implementation purposes. Impacts will be less than significant.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

16. Other Geologic Hazards		
a) Be subject to geologic hazards, such as seiche,		
mudflow, or volcanic hazard?	 	

Source(s): On-site Inspection, Project Application Materials, Geology Report

Findings of Fact:

a) The Project site is more than 29 miles from the Pacific Ocean and is not located in close proximity to any natural enclosed bodies of water. Additionally, there are no volcances in the Project vicinity. As such, the project site would not be subject to inundation by tsunamis or seiches and would not be affected by volcances. The Project site is located approximately .71 miles west of Skinner Reservoir and within a high dam hazard zone, as illustrated by the Riverside County General Plan, Southwest Area Plan, Figure 10, Southeast Area Plan Flood Hazards. Additionally, Figure 10, Southwest Area Plan Flood Hazards illustrates that the Project site is not located within a 100-Year Flood Zone. Due to the relatively flat topography of the Project site and surrounding areas, there is not a potential for the Project site to be impacted by mudflow hazards. The Project site would not be affected by any other geologic hazards beyond what is discussed herein under the appropriate topic heading. Impacts will be less than significant.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

17.	Slopes							
а) Change	topography	or	ground	surface	relief		
featu				•				

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	Potentially Significant	Less than Significant	Less Than	No Impact
	Impact	with Mitigation Incorporated	Significant Impact	Impact
b) Create out or fill plance creater than 0.4 or higher				
b) Create cut or fill slopes greater than 2:1 or higher than 10 feet?			\boxtimes	
c) Result in grading that affects or negates subsurface sewage disposal systems?				\boxtimes
Source(s): Riv. Co. 800-Scale Slope Maps, Project Application	on Material	s, Slope Stat	oility Report	t
Findings of Fact:				
a-b) Under existing conditions, the Project site is relatively flat. would require limited grading of the site to accommodate the un Due to the limited scale of the proposed Project, the site's ex maintained. Impacts will be less than significant.	manned wi	eless comm	unication fa	cility.
c) Under existing conditions, the Project site is vacant; then systems. There will be no impacts. Mitigation: No mitigation is required.	e are no s	subsurface s	ewage dis	posal
Monitoring: No monitoring is required.				
18. Soils a) Result in substantial soil erosion or the loss of topsoil?				
b) Be located on expansive soil, as defined in Section 1803.5.3 of the California Building Code (2019), creating substantial direct or indirect risks to life or property?				
c) Have soils incapable of adequately supporting use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				
Source(s): U.S.D.A. Soil Conservation Service Soil Survey Inspection, Soils Report	s, Project A	Application N	laterials, O	n-site
Findings of Fact:				
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a) Construction activities associated with the Project would temporarily expose underlying soils to water and air, which would increase erosion susceptibility while the soils are exposed. Exposed soils would be subject to erosion during rainfall events or high winds due to the removal of stabilizing vegetation and exposure of these erodible materials to wind and water. However, due to the project's limited scale, and with incorporation of Best Management Practices (BMP's) would reduce the impact to below a level of significance. Impacts will be less than significant.

b) The Project may be located on expansive soil; however, compliance with California Building Code (CBC) requirements pertaining to commercial development reduce the potential impact to less than significant. CBC requirements are applicable to all development, so they are not considered mitigation for CEQA implementation purposes.

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	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) No septic tanks or alternative waste water disposal sy expanded as part of the Project. There will be no impacts.	stems are pro	oposed to be	e construct	ed or
Mitigation: No mitigation is required.				
Monitoring: No monitoring is required.				
19. Wind Erosion and Blowsand from project either or or off site.	n 🗌			
a) Be impacted by or result in an increase in wir erosion and blowsand, either on or off site?	nd			

Findings of Fact:

a) The Project site is considered to have a "moderate" susceptibility to wind erosion (Riverside County, 2003, Figure S-8). Proposed grading activities would expose underlying soils at the Project site which would increase wind erosion susceptibility during grading and construction activities. Exposed soils would be subject to erosion due to the exposure of these erodible materials to wind. Erosion by wind would be highest during period of high wind speeds. Wind Erosion requires buildings and structures to be designed to resist wind loads which are covered by the CBC. Following construction, wind erosion would be non-existent, as the disturbed areas would be covered with impervious surfaces. Therefore, implementation of the proposed Project would not significantly increase the risk of long-term wind erosion on- or off-site and impacts will be less than significant.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

GREENHOUSE GAS EMISSIONS Would the project:			(unestro)
20. Greenhouse Gas Emissions a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?		\boxtimes	
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?		\boxtimes	

Source(s): Riverside County General Plan, Riverside County Climate Action Plan ("CAP"), Project Application Materials

Findings of Fact:

a) The Project proposes the installation of an unmanned wireless communication facility disguised as a 70 foot tall mono-pine within a 700 square-foot lease area. The installation of the mono-pine will involve small-scale construction activities that will not involve an extensive amount of heavy duty equipment or labor. Therefore, greenhouse gas emissions generated during construction phase are

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Potentially	Less than	Less	No
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minimal. In addition, the powering of the cell tower will not require an extensive amount of electricity. Therefore, the Project is not anticipated to generate greenhouse gas emissions, either directly or indirectly, and impacts will be less than significant.

b) The Project will not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases. Impacts will be less than significant.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

HAZARDS AND HAZARDOUS MATERIALS Would the proje	ect:		
 21. Hazards and Hazardous Materials a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? 			
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			
c) Impair implementation of or physically interfere with an adopted emergency response plan or an emergency evacuation plan?			
d) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter (1/4) mile of an existing or proposed school?			
e) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?			

Source(s): Project Application Materials

Findings of Fact:

a) The project is not associated with the need for routine transport, use or disposal of substantial quantities of hazardous materials. This project is not forecast to cause any significant environmental impacts related to activities related to routine delivery, management or disposal of hazardous materials. There will be no impacts.

b) During the construction of any new proposed development, there is a limited potential for accidental release of construction-related products although not in sufficient quantity to pose a significant hazard to people and the environment. Impacts will be less than significant.

c-d) Any new development on the project will not impair implementation of or physically interfere with an adopted emergency response plan or an emergency evacuation plan. The project site is not located within one-quarter mile of an existing or proposed school. When combined with the lack of uses that would generate hazardous emissions, no adverse impact from hazardous emissions is forecast to occur. There will be no impacts.

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e) The site is not located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, its development would not create a significant hazard to the public or the environment. There will be no impacts.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

22. Airports		\boxtimes
 Result in an inconsistency with an Airport Master 		
Plan?		
b) Require review by the Airport Land Use		
Commission?		
c) For a project located within an airport land use plan		\boxtimes
or, where such a plan has not been adopted, within two (2)		
miles of a public airport or public use airport, would the		
project result in a safety hazard for people residing or		
working in the project area?		
d) For a project within the vicinity of a private airstrip,		
or heliport, would the project result in a safety hazard for		
people residing or working in the project area?		

Source(s): Riverside County General Plan Figure S-20 "Airport Locations," GIS database

Findings of Fact:

a-c) The nearest airport to the Project site is the French Valley Airport, which is located approximately 2.4 miles southwest of the Project site. Therefore, the proposed Project would not result in an inconsistency with an Airport Master Plan or require review by the Airport Land Use Commission. Additionally, the proposed Project would not result in a safety hazard for people residing or working in the Project area. There will be no impacts.

d) The project is not within the vicinity of a private airstrip, or heliport and would not result in a safety hazard for people residing or working in the project area. There will be no impacts.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

HYDROLOGY AND WATER QUALITY Would the project:			1995
23. Water Quality Impacts a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?			
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?			
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	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces?				
d) Result in substantial erosion or siltation on-site or off-site?			\boxtimes	
e) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- site or off-site?				
f) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?				
g) Impede or redirect flood flows?			\boxtimes	
h) In flood hazard, tsunami, or seiche zones, risk the release of pollutants due to project inundation?			\boxtimes	
i) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				

<u>Source(s)</u>: Riverside County General Plan Figure S-9 "Special Flood Hazard Areas," Figure S-10 "Dam Failure Inundation Zone," Riverside County Flood Control District Flood Hazard Report/ Condition, GIS database

Findings of Fact:

a) Due to the limited scope of the proposed Project, it is not anticipated that implementation of the proposed Project will violate any water quality standards or waste discharge requirements. Since this is a wireless communication facility with no water supply, impacts will be less than significant.

b) Due to the relatively small nature of the proposed project, it is not anticipated that the project would substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin. Impacts to groundwater recharge as a result of project implementation would be less than significant.

c) The proposed project is not anticipated to substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces. Project development would include the grading of a small pad area in a relatively small portion of the site and would not create a substantial amount impervious surfaces. Due to the natural terrain, the majority of the site would remain untouched and in its natural condition. Because of the implementation of Best Management Practices (BMPs) and compliance with relevant regulating agencies, impacts would be considered less than significant.

d) The proposed project is not anticipated to result in substantial erosion or siltation on-site or off-site. Project development would include the grading of a small portion of the site and would not create areas that would erode or cause siltation because of compliance with relevant regulations preventing such conditions. Due to the existing terrain, the majority of the site would remain untouched and in its existing condition. The utilization of Best Management Practices (BMPs) and compliance with the relevant regulating agencies would reduce impacts to less than significant levels.

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Potentially	Less than	Less	No
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e) Because most of the site would be left untouched and the small scale of the graded area that would support the development, project development is not anticipated to substantially increase the rate or amount of surface runoff in a manner which would result in flooding on-site or off-site. The project would be required to comply with regulations that would prevent such conditions to occur. The utilization of Best Management Practices (BMPs) and compliance with the relevant regulating agencies would reduce impacts to less than significant levels.

f) Because most of the site would be left untouched and the small scale of the graded area that would support the development, project development is not anticipated to substantially create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. Impacts are considered less than significant.

g) The project site is located within a flood zone. However, due to the limited scope of the proposed Project, the small structures would not cause a significant impact to a flood hazard area which would impede or redirect flood flows. Impacts would be less than significant.

h) The project site is located within a flood zone and approximately 0.72 mile west of Lake Skinner. The risk for tsunami would be very remote as the project is located approximately 30 miles from the Pacific Ocean and has mountainous terrain in between the ocean and the site. Due to the limited scope of the proposed Project, the small structures and minimal electrical equipment that would be part of the monopine facility would not cause a significant impact to a release of pollutants due to inundation. Impacts would be less than significant.

i) As presented above, the relatively small scope of the project would not have the potential to conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. Impacts would be less than significant.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

LAND USE/PLANNING Would the project:		A STATE	T LE SA
24. Land Use a) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?			
b) Disrupt or divide the physical arrangement of an established community (including a low-income or minority community)?			

Findings of Fact:

a) a) Under existing conditions, the Project site is vacant. With implementation of the proposed Project, only the 700 square-foot lease area would be disturbed. According to the General Plan, the proposed wireless communication facility would be in compliance with the current land use designation of

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Potentially	Less than	Less	No
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Community Development: Public Facilities (CD: PF). Although the proposed Project will not result in a substantial alteration of the present or planned land use of the area, all potential environmental impacts associated with the Project are evaluated throughout this environmental assessment. Therefore, the project would not cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigation an environmental effect. Impacts will be less than significant.

b) There are residential communities to the north and west of the Project site. However, there are no components of the proposed Project that would obstruct access to the communities. The residential communities would continue to utilize the existing circulation system. Accordingly, the proposed Project would not disrupt or divide the physical arrangement of an established community. There will be no impacts.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

MINERAL RESOURCES Would the project:		
 25. Mineral Resources a) Result in the loss of availability of a known mineral resource that would be of value to the region or the residents of the State? 		
b) Result in the loss of availability of a locally- important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?		\boxtimes
c) Potentially expose people or property to hazards from proposed, existing, or abandoned quarries or mines?		\boxtimes

Source(s): Riverside County General Plan Figure OS-6 "Mineral Resources Area"

a-b) Based on available information, the Project site has never been the location of mineral resource extraction activity. No mines are located on the property. According to General Plan Figure OS-5, *Mineral Resources Area*, the Project site is designated within the Mineral Resources Zone 3 (MZ-3) pursuant to the Surface Mining and Reclamation Act of 1975 (SMARA). According to the California Department of Conservation California Surface Mining and Reclamation Policies and Procedures, lands designated as MRZ-3 are defined as areas of undetermined mineral resource significance. Furthermore, the Project site is not identified as an important mineral resource recovery site by the General Plan. Accordingly, the proposed Project would not result in the loss of availability of a known mineral resource that would be of value to the region or the residents of the State, nor would the Project result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan. There will be no impacts.

c) The Project site is not located near lands classified as Mineral Resources Zone 2 (MRZ-2), which are areas known to have mineral resource deposits. Additionally, lands abutting the Project site do not include any State classified or designated areas, and there are no known active or abandoned mining or quarry operations on lands abutting the Project site. Accordingly, implementation of the proposed Project would not result in an incompatible use located adjacent to a State classified or designated area or existing mine. In addition, implementation of the proposed Project would not expose people or

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property to hazards from proposed, existing, or abandoned quarries or mines. There will be no impacts.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

NOISE Would the project result in:		
 26. Airport Noise a) For a project located within an airport land use plan or, where such a plan has not been adopted, within two (2) miles of a public airport or public use airport would the project expose people residing or working in the project area to excessive noise levels? 		
b) For a project located within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?		

Source(s): Riverside County General Plan Figure S-20 "Airport Locations," County of Riverside Airport Facilities Map

Findings of Fact:

a) The nearest airport to the Project site is the French Valley Airport, which is located approximately 2.4 miles southwest of the Project site and the Project is not located within an Airport Influence Area. Therefore, the proposed Project would not result in an inconsistency with an Airport Master Plan or require review by the Airport Land Use Commission. Additionally, the proposed Project would not result in a safety hazard for people residing or working in the Project area. There will be no impacts.

d) The project is not within the vicinity of a private airstrip, or heliport and would not result in a safety hazard for people residing or working in the project area. There will be no impacts.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

27. Noise Effects by the Project a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of			\boxtimes	
the project in excess of standards established in the local general plan, noise ordinance, or applicable standards of other agencies?				
b) Generation of excessive ground-borne vibration or ground-borne noise levels?			\boxtimes	
Source(s) : Riverside County General Plan, Table N-1 ("Land Exposure"), Project Application Materials	Use Comp	patibility for C	ommunity	Noise
Findings of Fost				

Findings of Fact:

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erts. Involuzione	Mitigation	Impact	
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a) Although the project will increase the ambient noise level in the immediate vicinity during construction, and the general ambient noise level may increase slightly after project completion due to occasional/periodic facility maintenance, the impacts are not considered significant. Therefore, the proposed Project itself would not result in a substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the Project. Impacts would be less than significant.

b) The Project's only potential to result in a substantial temporary or periodic increase in noise levels would be during short-term construction activities, as long-term operation of the unmanned wireless communication facility would not result in the generation of any significant temporary or periodic noise increases. The occasional facility maintenance would not result in a significant noise increase. Impacts would be less than significant.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

PALEONTOLOGICAL RESOURCES:	TO A REAL	817.0
28. Paleontological Resources		
a) Directly or indirectly destroy a unique paleonto-		
logical resource, site, or unique geologic feature?		

Source(s): Riverside County General Plan Figure OS-8 "Paleontological Sensitivity," Paleontological Resource Impact Mitigation Program ("PRIMP") Report

Findings of Fact:

a) According to "Map My County," the project site has been mapped as having a low potential for paleontological resources. Additionally, a paleontological report (PDP No. 1474) was prepared by Kenneth J. Lord in 2014. PDP No. 1474 concluded that the project has low potential of encountering Paleontological resources at or near the surface (within the upper 10 feet) but that there is a high potential for sensitive paleontological resources within the subsurface at depth. PDP No. 1474 recommended no monitoring program to mitigate for potential impacts to Paleontological resources. Impacts will be less than significant.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

POPULATION AND HOUSING Would the project:	20.11.213			
 29. Housing a) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? 				\boxtimes
b) Create a demand for additional housing, particularly housing affordable to households earning 80% or less of the County's median income?				\boxtimes
c) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new				\boxtimes
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Potentially	Less than	Less	No
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	Mitigation	Impact	
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homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

<u>Source(s)</u>: Project Application Materials, GIS database, Riverside County General Plan Housing Element

Findings of Fact:

a & c) Under existing conditions, there are no existing homes on-site, nor is the site occupied by any people. Thus, implementation of the proposed Project would not displace housing or people, necessitating the construction of replacement housing elsewhere. There will be no impacts.

b) The Project simply proposes an unmanned wireless telecommunication and would not result in an affordable housing demand. There will be no impacts.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

PUBLIC SERVICES Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered government facilities or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the following public services:

30.	Fire Services		\boxtimes	

Source(s): Riverside County General Plan Safety Element

Findings of Fact:

The Riverside County Fire Department provides fire protection services to the Project area. The proposed Project would primarily be served French Valley Station (Station No. 83), located approximately 2.7 miles southwest of the Project site at 37500 Sky Canyon Dr. # 401 Murrieta CA, 92563. Thus, the Project site is adequately served by fire protection services under existing conditions. Because the proposed Project is simply an unmanned wireless communication facility, implementation of the proposed Project would not result in the need for new or physically altered fire protection facilities and would not exceed applicable service ratios or response times for fire protection services. Impacts will be less than significant.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

31. Sheriff Services		\boxtimes	
Source(s): Riverside County General Plan			
Findings of Fact:			

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3/11/2025 Board Meeting	7-8		Attachmen	t 2, Page 28	of 36
		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impac
The Riverside County Sheriff's Departr Southwest Sherriff's Station located app Road, Murrieta, CA 92563. The propose to nonexistent because the proposed P Therefore, implementation of the propose altered sheriff stations. Impacts will be le	roximately 2.2 miles d Project's demand roject is simply an sed Project would no	southwest of on sheriff prof unmanned win ot result in in t	the Project s tection servic reless comm	ite at 3075 es would b unication fa	5 Auld e little acility.
Mitigation: No mitigation is required.					
Monitoring: No monitoring is required.					
32. Schools					\boxtimes
Source: Temecula Valley Unified Schoo	ol District correspon	dence, GIS da	atabase		
Findings of Fact:	2)				
The Project simply proposes an unmar	aned telecommunic	ation facility.	Therefore th	ere would	he no
impact. There will be no impacts.		ation raointy.	moronoro, m		
Mitigation: No mitigation is required.					
Monitoring: No monitoring is required.					
33. Libraries					\boxtimes
Source(s): Riverside County General	Plan				
Findings of Fact:					
Implementation of the Project would resu facility. No housing, which could increas be no impacts.					
Mitigation: No mitigation is required.					
Monitoring: No monitoring is required.					
34. Health Services					\boxtimes
Source(s): Riverside County General	Plan				
Findings of Fact:					
The Project simply proposes an unmani increase the demand for health services					ould
Mitigation: No mitigation is required.					

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		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Monitoring: No monitoring is required.					
RECREATION Would the project:	135-1-126.				
35. Parks and Recreation a) Include recreational facilities construction or expansion of recreationa might have an adverse physical effect on the	I facilities which				
b) Increase the use of existing regional parks or other recreational fac substantial physical deterioration of the fac or be accelerated?	cilities such that				
c) Be located within a Community Se or recreation and park district with a Comm Recreation Plan (Quimby fees)?					\boxtimes
 a) The Project simply proposes an unmanner construction or expansion of recreational factors b) The Project simply proposes an unmanner use of existing neighborhood or regional p Project would not increase the use of exist physical deterioration of recreational facilities c) According to "Map My County," the Project Project Would Not Wap My County, and Project Project Pr	cilities. There will b ed wireless commu arks or other recre ting neighborhood s. There would be	e no impac inication fac eational fac or regiona no impacts	ets. cility and doe cilities. Implea al park use th s.	es not involv mentation hat would o	ve the of the cause
There would be no impacts. Mitigation: No mitigation is required.					
Monitoring: No monitoring is required.					
36. Recreational Trails a) Include the construction or expansion system?	ansion of a trail				
Source(s): Riv. Co. 800-Scale Equestrian County trail alignments	Trail Maps, Open S	pace and C	Conservation	Map for We	estern
Findings of Fact:					
a) According to the Southwest Area Plan Fig planned along Washington Street. However likely that the planned trail would be negative the right-of-way. Impacts would be less than	r, due to the limited ely impacted as the	d scope of	the proposed	Project, it	is not

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3/11/2025 Board Meeting	7-8		Attachment	t 2, Page 30	of 36
		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<u>Mitigation</u> : No mitigation is rec <u>Monitoring</u> : No monitoring is re TRANSPORTATION Would t	equired.				-
37. Transportation a) Conflict with a progr	am, plan, ordinance, or policy em, including transit, roadway,				
b) Conflict or be incon section 15064.3, subdivision (sistent with CEQA Guidelines b)?				
	se hazards due to a geometric arp curves or dangerous uses (e.g. farm equipment)?				
d) Cause an effect upon maintenance of roads?	n, or a need for new or altered			\boxtimes	
e) Cause an effect up ject's construction?	on circulation during the pro-			\boxtimes	
f) Result in inadequate to nearby uses?	emergency access or access				\boxtimes

Source(s): Riverside County General Plan, Project Application Materials

Findings of Fact:

a) The proposed Project is simply an unmanned wireless communication facility. Any traffic resulting from the proposed Project would be due to occasional maintenance. Therefore, there would be no substantial traffic increase in relation to the existing traffic load and capacity of the street system and there would be no conflict with the Riverside County Transportation Commission's (RCTC) 2011 Riverside County Congestion Management Program. Impacts will be less than significant.

b) Pursuant to Senate Bill 743, CEQA Guidelines Section 15064.3, the most appropriate measure of transportation impacts is vehicle miles traveled (VMT), which refers to the amount and distance of automobile travel attributable to a project. The proposed Project would require a minimal amount of temporary construction vehicle trips. The construction vehicle trips are anticipated to come from the local region. Regional construction vehicle trips for temporary project construction are not anticipated to generate a substantial increase in Vehicle Miles Traveled (VMT) on local or regional roadways or vehicle emissions. When construction is completed, all construction worker commute trips would halt, and the operational facility would require a minimal amount of periodic vehicle trips (less than 5 trips per day) for occasional maintenance, which is anticipated to have no substantial impacts to local or regional roadways or cause a substantial increase in vehicle emissions. The Project is anticipated to fall below any thresholds for screening for VMTs and would have a minimal effect on VMT during construction and operation. Projects that generate or attract fewer than 110 trips per day generally may be assumed to cause a less than significant transportation impact. Impacts are considered less than significant.

c) The proposed Project is simply an unmanned wireless communication facility that would not substantially increase hazards due to a geometric design feature. The project would be accessed off

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Potentially	Less than	Less	No
Significant	Significant	Than	Impac
Impact	with	Significant	•
	Mitigation	Impact	
	Incorporated	68200 85. 6 17 97087 2.72	

of Washington Street and would have a gated driveway on-site to allow periodic maintenance of the facility. Impacts would be less than significant.

d-e) The proposed Project is simply an unmanned wireless communication facility and does not propose any change in street design. No effect upon, or a need for new or altered maintenance of roads are anticipated for construction or Project operations. All construction staging would be on-site and periodic maintenance of the operational facility would not require any roadway improvements that would cause an effect upon circulation during the Project's construction. Impacts would be less than significant.

f) The proposed Project is simply an unmanned wireless communication facility on a 700 square-foot lease area. All construction would be located on-site. No roadway improvements are proposed that would result in inadequate emergency access to nearby uses. There would be no impacts.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

38. Bike Trails		\boxtimes
a) Include the construction or expansion of a bike		
system or bike lanes?		

Source(s): Riverside County General Plan

<u>Findings of Fact</u>: The proposed Project is simply an unmanned wireless communication facility and does not create a need for- or impact a bike trail in the vicinity of the project. No bike trails are required or proposed along Washington Street or near the proposed site. No impact would occur.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

TRIBAL CULTURAL RESOURCES Would the project cause a substantial adverse change in the significance of a Tribal Cultural Resource, defined in Public Resources Code section 21074 as either a site, feature, place, or cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American Tribe, and that is:

39. Tribal Cultural Resources a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1 (k)?			
b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? (In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.)			
Page 31 of 36	CE	Q180046.	

Potentially	Less than	Less	No
Significant	Significant	Than	Impact
Impact	with	Significant	
	Mitigation	Impact	
	Incorporated		

Source(s): County Archaeologist, AB52 Tribal Consultation

Findings of Fact:

a-b) In compliance with Assembly Bill 52 (AB52), notices regarding this project were mailed to all requesting tribes on July 13, 2015. Consultation was requested by the Pechanga Band of Luiseno Indians. The tribe was provided with the cultural report on September 2, 2015 and this project was discussed in a meeting held October 14, 2015. At this meeting the tribe requested the Tower Construction Notification System (TCNS) number for the project and did not identify any tribal cultural resources that may be impacted by this project. Consultation was concluded on May, 06, 2016. The Native American tribes did not identify any tribal cultural resources, so there would be no impacts.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

UTILITIES AND SERVICE SYSTEMS Would the project:		
 40. Water a) Require or result in the relocation or construction of new or expanded water, wastewater treatment, or storm water drainage systems, whereby the construction or relocation would cause significant environmental effects? 		
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?		

Source(s): Project Application Materials, Water Company

Findings of Fact:

a-b) The proposed Project is simply an unmanned wireless communication facility. No water service is required for construction or operation. Therefore, the proposed Project would not require or result in the construction of new water treatment facilities or expansion of existing facilities. There would be no impacts.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

41. Sewer a) Require or result in the construction of new wastewater treatment facilities, including septic systems, or expansion of existing facilities, whereby the construction or			
relocation would cause significant environmental effects? b) Result in a determination by the wastewater treatment provider that serves or may service the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?			
Page 32 of 36	CE	EQ180046.	

Potentially	Less than	Less	No
Significant	Significant	Than	Impact
Impact	with	Significant	
• · · · · · ·	Mitigation	Impact	
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Source(s): Department of Environmental Health Review

Findings of Fact:

a-b) The proposed Project is simply an unmanned wireless communication facility and would not require any connection to sewer lines or the creation of a septic system. No sewer service is required for Project construction or operation. Therefore, the Project will not require or result in the construction of new wastewater treatment facilities or expansion of existing facilities. There would be no impacts.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

42. Solid Waste a) Generate solid waste in excess of State or Local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?		
 b) Comply with federal, state, and local management and reduction statutes and regulations related to solid wastes including the CIWMP (County Integrated Waste Management Plan)? 		\boxtimes

Source(s): Riverside County General Plan, Riverside County Waste Management District correspondence

Findings of Fact:

a-b) The proposed Project is simply an unmanned wireless telecommunication facility and would not require solid waste services. Construction of such a small facility would generate minimal construction waste that would be hauled off the site in accordance with County regulations as construction activities are completed. No waste would be generated during operation and maintenance workers would be required to haul and appropriately dispose of any minimal amount of waste generated. Therefore, the proposed Project would not require or result in the construction of new landfill facilities, including the expansion of existing facilities. There would be no impacts.

Mitigation: No mitigation is required.

Monitoring: No monitoring is required.

43. Utilities

Would the project impact the following facilities requiring or resulting in the construction of new facilities or the expansion of existing facilities, whereby the construction or relocation would cause significant environmental effects?

a) Electricity?		\boxtimes	
b) Natural gas?		\boxtimes	
c) Communications systems?		\boxtimes	
d) Street lighting?		\boxtimes	

5/11/2025 Board Meeting /-8		Attachment		
	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impac
e) Maintenance of public facilities, including roads?	<u> </u>			
f) Other governmental services?				
ource(s) : Project Application Materials, Utility Companies -f) Implementation of the proposed Project would requi	re the co	nstruction o	f electrica	l and
ommunication facilities. Electrical service would be provide ommunication systems would be provided by Verizon. No na ite, no street lighting is required for project implementation, no rould be required for project construction or operation. No ot or project construction or operation. Any physical impacts resu	tural gas w o public fac her govern ulting from	ould be requ cility or roadw mental servio the construct	ired to serv ay mainter ces are rec ion of nece	ve the nance quired essary
tility connections to the Project site have been evaluated thro npacts would be less than significant.	bughout the	s environmer	ntal assess	ment.
litigation: No mitigation is required.				
<u>litigation</u> : No mitigation is required.				
<u>Aitigation</u> : No mitigation is required. <u>Aonitoring</u> : No monitoring is required.				
Aonitoring: No monitoring is required.				
<u>Monitoring</u> : No monitoring is required. WILDFIRE If located in or near a State Responsibility Area (*				
Monitoring: No monitoring is required. WILDFIRE If located in or near a State Responsibility Area (hazard severity zone, or other hazardous fire areas that may				
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Monitoring: No monitoring is required. WILDFIRE If located in or near a State Responsibility Area ('hazard severity zone, or other hazardous fire areas that may the project: 44. Wildfire Impacts a) Substantially impair an adopted emergency response plan or emergency evacuation plan? b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?		ated by the Fi		

Source(s): Riverside County General Plan Figure S-11 "Wildfire Susceptibility," GIS database

Findings of Fact:

a-e) According to County of Riverside General Plan, Southwest Area Plan, Figure 11, Southwest Area Plan Wildfire Susceptibility, the Project site is not located within a wildland fire zone. Any structure constructed within this project shall comply with the special construction provisions contained in Riverside County Ordinance 787, CFC, and CBC. There would be no impacts.

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Mitigation: No mitigation is required.

Monitoring: No monitoring is required.
MANDATORY FINDINGS OF SIGNIFICANCE Does the Project:
45. Have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self- sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?
Source(s): Staff Review, Project Application Materials
Findings of Fact:
As indicated in the discussion and analysis of Biological Resources (Section 7), Cultural Resources (Section 8), Archaeological Resources (Section 9), and Paleontological Resources (Section 34), implementation of the proposed project would not substantially degrade the quality of the environment, substantially reduce the habitat of fish or wildlife species, cause a fish or wildlife populations to drop below self-sustaining levels, threaten to eliminate a plant or animal community, or reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory. Impacts would be less than significant.
46. Have impacts which are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, other current projects and probable future projects)?
Source(s): Staff Review, Project Application Materials
Findings of Fact: As documented throughout this Initial Study, the project does not have impacts which are individually limited, but cumulatively considerable. No impacts would occur.
47. Have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?
Source(s): Staff Review, Project Application Materials
The Project's potential to result in substantial adverse environmental effects on human beings, either directly or indirectly, have been evaluated throughout this environmental assessment. There are no components of this project likely to result in substantial adverse effects on human beings that have not

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Potentially	Less than	Less	No
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	Incorporated		

already been evaluated and disclosed throughout this environmental assessment or reference source documents. Impacts would be considered less than significant.

VI. EARLIER ANALYSES

Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration as per California Code of Regulations, Section 15063 (c) (3) (D). In this case, a brief discussion should identify the following:

Earlier Analyses Used, if any: N/A

Location Where Earlier Analyses, if used, are available for review:

Location:

County of Riverside Planning Department 4080 Lemon Street, 12th Floor Riverside, CA 92505



Finance, Affordability, Asset Management and Efficiency Committee

Verizon Wireless Telecommunications License Agreement

Item 7-8 March 11, 2025 Overview of License Agreement

Subject

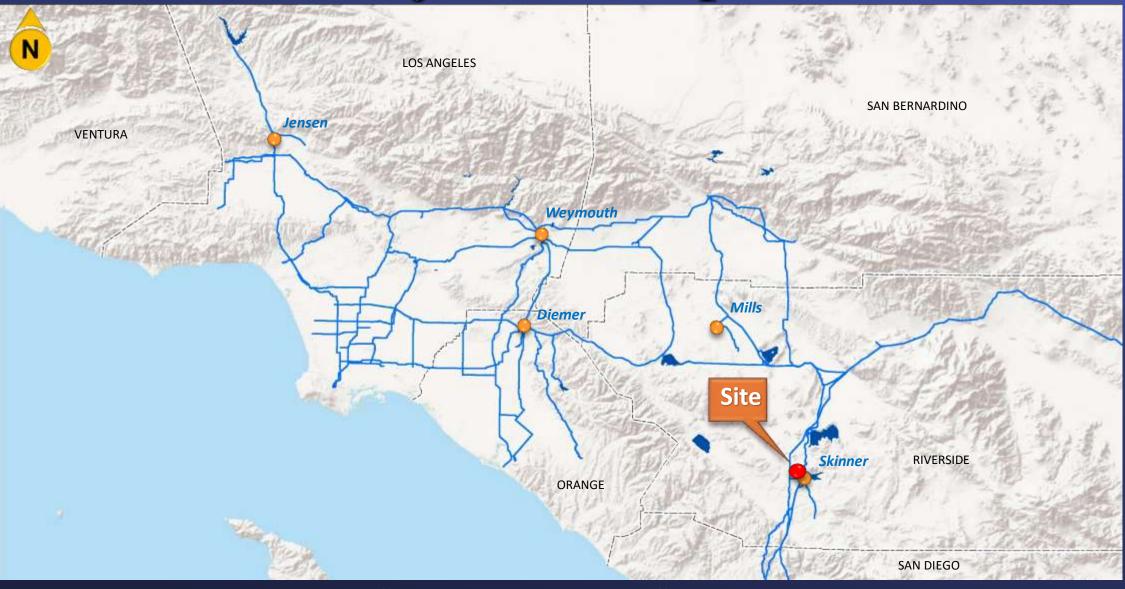
Authorize the General Manager to execute a new ground license agreement with Verizon Wireless for up to 25 years for a new telecommunications site.

Purpose

• This telecom site will help increase the reliability of transmitting communication data in the area.



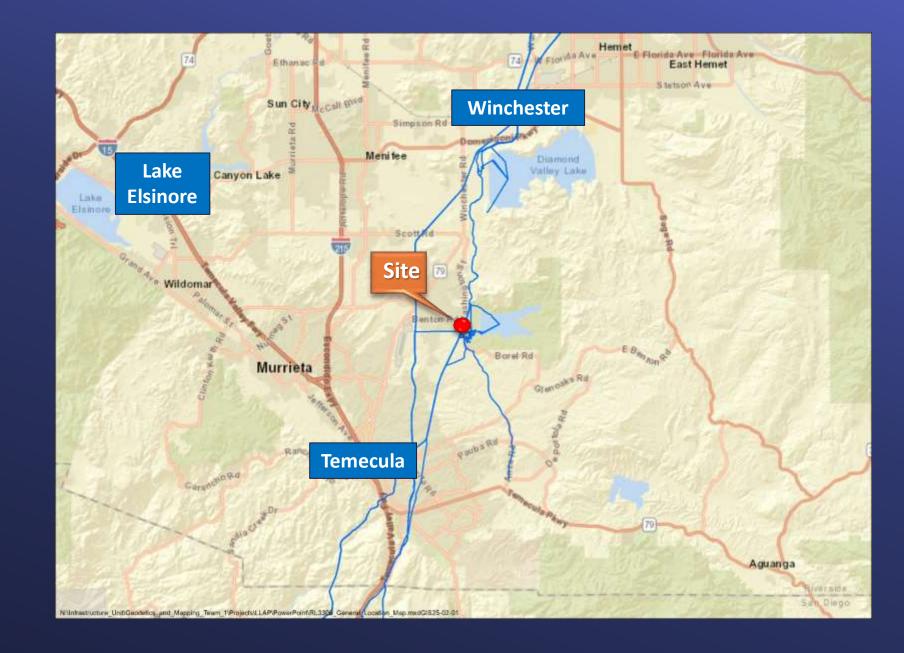
Distribution System Map



Finance, Affordability, Asset Management and Efficiency Committee



General Location Map



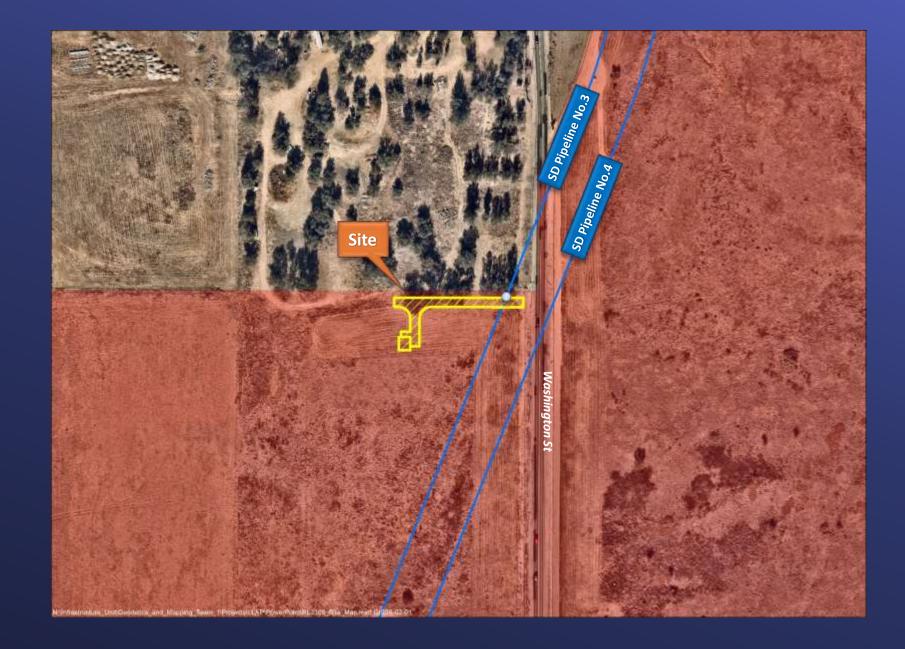
March 11, 2025

Finance, Affordability, Asset Management and Efficiency Committee

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Site Map



inance, Affordability, Asset Management and Efficiency Committee

Key Provisions

- Subject to Metropolitan's paramount rights
- License area of 8,615 sf
- 10-year base term with three 5-year options to renew by mutual consent.
- Annual License fee of \$51,000 per appraised market rates
- Reappraisal every 5 years
- Annual fee increase of 4%
- One-time processing fee of \$9,000

Board Options

Option No. 1

• Authorize the General Manager to execute a new ground license agreement with Verizon Wireless for up to 25 years for a new telecommunications site.

Option No. 2

• Do not authorize the new ground license agreement.



Board Options

Staff Recommendation

• Option No. l





THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Action

Board of Directors Finance and Asset Management Committee

3/11/2025 Board Meeting

7-9

Subject

Review and consider the County of Riverside Final Environmental Impact Report certified by the Lead Agency, adopt the Lead Agency's findings, and authorize the General Manager to execute a thirty-year license agreement with Intersect Power, LLC for renewable energy infrastructure purposes on Metropolitan fee-owned property in the County of Riverside and identified as Assessor Parcel Numbers 808-023-022 and 808-023-030; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

This action authorizes the General Manager to execute a new license agreement with Intersect Power, LLC, allowing the installation of underground utilities across Metropolitan fee-owned property approximately three miles northwest of Desert Center in Riverside County (Attachment 1). The subject property was originally acquired by Metropolitan to support the construction of the Colorado River Aqueduct (CRA) with no Metropolitan facilities currently existing on the property. The project supports California's renewable energy goals by facilitating the Easley Renewable Energy Project, which is projected to generate up to 400 MW of renewable electricity and store up to 650 MW through battery energy storage systems. Board authorization is required as the license duration exceeds five years.

Proposed Actions/Recommendations and Options

Staff Recommendation: Option #1

Option #1

Review and consider the County of Riverside Final Environmental Impact Report certified by the Lead Agency, adopt the Lead Agency's findings, and authorize the General Manager to execute a thirty-year license agreement with Intersect Power, LLC for renewable energy infrastructure purposes on Metropolitan fee-owned property in the County of Riverside and identified as Assessor Parcel Numbers 808-023-022 and 808-023-030.

Fiscal Impact: Metropolitan will receive a one-time processing fee of \$8,000 and an annual license fee of \$2,500 with a 4 percent annual adjustment.

Business Analysis: By issuing a license agreement, cooperation with other agencies and utility companies furthers the public interest by advancing California's renewable energy goals. Metropolitan will also receive positive revenue from the value of the license agreement and fees.

Option #2

Do not authorize the new license agreement.

Fiscal Impact: Metropolitan will forgo a one-time processing fee of \$8,000 and \$2,500 in annual revenue. **Business Analysis:** Intersect Power, LLC will not be permitted to install their medium voltage crossings and fiber optic cables.

Alternatives Considered

Not applicable

Applicable Policy

Metropolitan Water District Administrative Code Section 8201: Authorization to General Manager

Metropolitan Water District Administrative Code Section 8230: Grants of Real Property Interests

Metropolitan Water District Administrative Code Section 8231: Appraisal of Real Property Interests

Metropolitan Water District Administrative Code Section 8232: Terms and Conditions of Management

By Minute Item 48766, dated August 16, 2011, the Board adopted fair market value policies for managing Metropolitan's real property assets.

Related Board Action/Future Action

Not applicable

Summary of Outreach Completed

Not applicable

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

Acting as the Lead Agency, the County of Riverside certified a Final Environmental Impact Report (EIR) (Attachment 2, Attachment 3 and Attachment 4) on August 27, 2024, for the Easley Renewable Energy Project. The Board has reviewed and considered these environmental documents and adopts the findings of the Lead Agency. (State CEQA Guidelines Section 15096)

CEQA determination for Option #2:

None required

Details and Background

Background

Intersect Power, LLC, through its subsidiaries IP Easley I, LLC and IP Easley II, LLC, is requesting a thirty-year license agreement on Metropolitan's fee-owned property to construct two underground medium voltage (MV) collection lines and fiber optic cables as part of the Easley Renewable Energy Project. The subject property was originally acquired by Metropolitan to support the construction of the CRA, specifically for power and communication lines required during the original construction of the CRA. After completion of construction, these utilities were removed, and no Metropolitan facilities currently exist on the property. The Easley Renewable Energy Project is a utility-scale solar photovoltaic (PV) electrical generating and storage facility, and its associated infrastructure will generate and deliver renewable electricity to the statewide electricity transmission grid, contributing to state and federal clean energy goals. The project area covers 12,862 square feet and will contribute to renewable energy production and storage aligned with state and federal clean energy goals.

Staff has determined that the proposed license would not interfere with Metropolitan's water operations. The proposed license agreement for MV collection lines and fiber optic cables will have the following key provisions:

- Subject to Metropolitan's paramount rights provision
- License area of 12,862 sf
- Term of 30 years
- One-time processing fee of \$8,000

- Nominal license fee of \$2,500 per year
- Reappraisal every 5 years
- Annual fee increase of 4 percent

The annual payment amount for the proposed license agreement is consistent with our appraisal process and nominal value determination of \$2,500. An independent appraisal was performed, and the nominal rate was higher than what was determined by the appraisal.

Project Milestones

Not applicable.

2/28/2025 Date

Elizabeth Crosson Chief Sustainability, Resilience and Innovation Officer

2/28/2025 Deven N. Upad Date General Manag

Attachment 1 – Location Map

Attachment 2 – Final EIR Easley Renewable Energy Project

Attachment 3 – EIR Appendix L Mitigation Monitoring and Reporting Program

Attachment 4 – Notice of Determination and Statement of Overriding Consideration

Ref# sri12697833



Location Map

FINAL Environmental Impact Report

7-9

for

IP Easley LLC's Easley Renewable Energy Project

(SCH No. 2022-11-0240)



Conditional Use Permit No. 220021 Public Use Permit No. 230002 Development Permit No. 2200016

August 2024

Lead Agency:



Technical Assistance by:



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ACRONYMS AND ABBREVIATIONS

AADT	Annual Average Daily Traffic
AB	Assembly Bill
AC	Alternating current
ACEC	Area of Critical Environmental Concern
ADT	Average daily trips
AF	Acre-feet
AFY	Acre-feet per year
AGL	Above ground level
AGR	Agriculture Supply
ANSI	American National Standards Institute
APLIC	Avian Power Line Interaction Committee
APS	Arizona Public Service
AQMP	Air Quality Management Plan
ARB	Air Resources Board
ASTM	American Society of Testing and Materials
ATCM	Airborne Toxic Control Measures
ATCTs	Air Traffic Control Towers
ATV	All-terrain vehicle
BACMs	Best Available Control Measures
BAT	Best Available Technology
BBCS	Bird and Bat Conservation Strategy
BCRs	Bird Conservation Regions
ВСТ	Best Conventional Pollutant Control Technology
BESS	Battery energy storage system
BGEPA	Bald and Golden Eagle Protection Act
BLM	United States Bureau of Land Management
BMP	Best management practices
BRTR	Biological Resources Technical Report
CAA	Clean Air Act
CAISO	California Independent Systems Operator
CalARP	California Accidental Release Prevention
Cal-EPA	California Environmental Protection Agency
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CBC	California Building Code
ССТ	Correlated Color Temperature
CDCA	California Desert Conservation Area
CDD	California Desert District
CDFW	California Department of Fish and Wildlife
CDPH	California Department of Public Health
CDWR	California Department of Water Resources
CEC	California Energy Commission
CEHC	California Essential Habitat Connectivity
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESA	California Endangered Species Act

CFC	California Fire Code
CFR	Code of Federal Regulations
CGS	California Geologic Survey
CHP	California Highway Patrol
CIWMB	California Integrated Waste Management Board
CIWMP	County Integrated Waste Management Plan
CMAs	Conservation and Management Actions
CMLUCA	California Military Land Use Compatibility Analyst
CMP	Congestion Management Plan
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	Carbon monoxide
CPRC	California Public Resources Code
CPUC	California Public Utilities Commission
CRIT	Colorado River Indian Tribes
CRPR	California Rare Plant Rank
CRR	Cultural Resources Report
CRWSP	Colorado River Water Supply Plan
CSA	County Service Area
CSP	Concentrating solar power
CUP	Conditional Use Permit
CUPA	Certified Unified Program Agencies
CVC	California Vehicle Code
CVGB	Chuckwalla Valley Groundwater Basin
CWA	Clean Water Act
DC	Direct current
DC	
DCAP	Desert Center Area Plan
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DCAP	Desert Center Area Plan
DCAP DCSL	Desert Center Area Plan Desert Center Sanitary Landfill
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ESS	Energy Storage Systems
ET	Evapotranspiration
FAA	Federal Aviation Administration
FED	Federal Land Manager Environmental Database
FEIS	Final Environmental Impact Statement
FEMA	Federal Emergency Management Agency
FHSZ	Fire Hazard Severity Zones
FLPMA	Federal Land Policy and Management Act
FMMP	Farmland Mapping and Monitoring Program
FMPP	Fire Management and Prevention Plant
FRAs	Federal Responsibility Areas
FUDS	Formerly Used Defense Sites
GCR	Ground cover ratio
GHG	Greenhouse gas
GMRMP	Groundwater Monitoring, Reporting, and Mitigation Plan
GPA	General Plan Amendment
GSAs	Groundwater Sustainability Agencies
GSI	Groundwater References
GSP	Groundwater Sustainability Plan
GWR	Groundwater Recharge
На	High Sensitivity
HEPA	High-efficiency particulate air
HFCs	hydrofluorocarbons
HLZ	Helicopter Landing Zone
HMBP	Hazardous Materials Business Plan
HMMP	Hazardous Materials Management Plan
HMP	Hazardous Materials Plan
HR	Hydrologic Region
HVAC	Heating, Ventilation and Air Conditioning
HWCL	Hazardous Waste Control Law
I-10	Interstate 10
IBC	International Building Code
ICC	International Code Council
IDB	Infectious Diseases Branch
IEEE	Institute of Electrical and Electronics Engineers
IIPP	Injury and Illness Prevention Program
IND	Industrial Service Supply
IWMB	Integrated Waste Management Board
IWMP	Integrated Weed Management Plan
JTNP	Joshua Tree National Park
KOPs	Key Observation Points
LADWP	Los Angeles Department of Water and Power
LAMP	Local Agency Management Program
LBNL	Lawrence Berkeley National Laboratory
LD-IGR	Local Development – Intergovernmental Review
LOS	Level of Service
LR2000	BLM Land and Records System
LRAS	Local Responsibility Areas
LSAA	Lake and Streambed Alteration Agreement
LSTs	Localized Significance Thresholds

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PFYC Potential Fossil Yield Classification		
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PM10 Particulate matter (less than 10 microns in diameter)		
	PM10	Particulate matter (less than 10 microns in diameter)

PM2.5	Fine particulate matter (less than 2.5 microns in diameter)
POD	BLM Plan of Development
PPA	Power Purchase Agree
PPE	Personal protective equipment
PPV	Peak particle velocity
PRDEIR	Partially Recirculated Draft Environmental Impact Report
PRIMP	Paleontological resource impact mitigation program
PRMP	Paleontological Resource Monitoring and Mitigation Plan
PRPA	Paleontological Resources Preservation Act
PTNCL	Prehistoric Trails Network Cultural Landscape
PUP	Public Use Permit
PV	Photovoltaic
PVMGB	Palo Verde Mesa Groundwater Basin
RCDWR	Riverside County Department of Waste Resources
RCFD	Riverside County Fire Department
RCGP	Riverside County General Plan
RCNM	Roadway Construction Noise Model
RCRA	Resource Conservation and Recovery Act
REAT	Renewable Energy Action Team
RMPs	Resource Management Plans
ROD	Record of Decision
ROG	Reactive organic gases
ROW	Right-of-Way
RPS	Renewable Portfolio Standard
RTP/SCS	Regional Transportation Plan and Sustainable Communities Strategy
RWQCB	Regional Water Quality Control Board
SARA	Superfund Amendments and Reauthorization Act
SB	Senate Bill
SBCM	San Bernardino County Museum
SCADA	Supervisory Control and Data Acquisition System
SCAN	Soil Climate Analysis Network
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SDC	Seismic Design Category
SDNHM	San Diego Natural History Museum
SEGS	Solar Energy Generating System
SGMA	Sustainable Groundwater Management Act
SMARA	Surface Mining and Reclamation Act
SMARTS	Stormwater Multiple Application and Report Tracking System
SMD	Sonoran and Mojave Deserts
SMP	Soil Management Plan
SMRA	Special Recreation Management Area
SMZ	Sand migration zone
SPCC	Spill Prevention, Control, and Countermeasure
SR	State Route
SR-177	State Route 177
SRA	State Responsibility Area
SRPs	Special Recreation Permits
SSURGO	Soil Survey Geographic
STATSGO	State Soil Geographic
JIAI300	

SVP SWPPP	Society of Vertebrate Paleontology Stormwater Pollution Prevention Plan State Water Resources Control Board
SWRCB TACs	Toxic air contaminants
TCA	
	Tortoise Conservation Area
TDM	Transportation Demand Management
TDS	Total Dissolved Solids
TISG	Transportation Impact Study Guide
TNW	Traditional navigable waters
TP	Technical Policy
TSCA	Toxic Substances Control Act
UAS	Unmanned Aircraft System
UBC	Uniform Building Code
USACE	U.S. Army Corps of Engineers
USBR	U.S. Bureau of Reclamation
USDA	U.S. Department of Agriculture
USDOT	United States Department of Transportation
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
USTs	Underground storage tanks
UXO	Unexploded ordnance
VCR	Visual contrast rating
VMT	Vehicle miles traveled
VOC	Volatile organic compounds
VPLs	Variance Process Lands
VR	Visual Route
VRM	Visual Resource Management
VRMP	Vegetation Resources Management Plan
WARM	Warm Freshwater Habitat
WDR	Waste Discharge Requirements
WEAP	Worker Environmental Awareness Program
WILD	Wildlife Habitat
WSA	Water Supply Assessment
WSC	Western Science Center
WWEC	West-Wide Energy Corridor
WWII	World War II

EXECUTIVE SUMMARY

ES.1 Introduction

IP Easley I, LLC, IP Easley II, LLC, and IP Easley III, LLC (Applicant or Proponent), a subsidiary of Intersect Power, LLC, proposes to construct, operate and decommission the Easley Renewable Energy Project (Easley Project or Project), a utility-scale solar photovoltaic (PV) electrical generating and storage facility, and associated infrastructure to generate and deliver renewable electricity to the statewide electricity transmission grid.

The proposed Project application area is located on approximately 3,735 acres of private and BLM-administered land, in Riverside County north of Desert Center, California (see Figure 2-1 in Appendix A). The Project would generate up to 400 MW and store up to 650 megawatts (MW) of renewable electricity via arrays of solar photovoltaic (PV) panels, battery energy storage system (BESS), and appurtenant facilities. A 6.7-mile 500 kilovolt (kV) generation-tie (gen-tie) line <u>(139 acres)</u> would mainly traverse across the Oberon Renewable Energy Project site (south of the Project site) and connect into an existing substation that is on the Oberon Project site. The Oberon Project is a solar PV and energy storage facility owned by Intersect Power, which began commercial operation in fall 2023. From the Oberon onsite substation, the power generated by the Easley Project would be transmitted to the Southern California Edison (SCE) Red Bluff Substation via the existing Oberon 500 kV gen-tie line (see Figure 2-2 in Appendix A).

The Applicant would site the solar facility, BESS, onsite substation, and a short portion of a 500 kV gen-tie line within the County of Riverside's jurisdiction, requiring a Conditional Use Permit (CUP 220021), Public Use Permit (PUP 230002), Variance (VAR 230003), and Development Agreement (DA 2200016) for construction, operation, and decommissioning.

Public lands within the Project solar application area include lands designated as Development Focus Area (DFA) by the Desert Renewable Energy Conservation Plan (DRECP) and associated Record of Decision (ROD), and thus, have been targeted for renewable energy development. Because the proposed Project is partially located on federal land under management of the U.S. Bureau of Land Management (BLM), the BLM is the lead agency under the National Environmental Policy Act (NEPA), 42 U.S.C. section 4321 et seq.

Depending on the timing of the interconnection agreement, the Easley Project could be operational as early as late 2025 <u>is planning to be operational in 2026</u>. The Project would operate for a minimum of 35 years and up to 50 or more years. At the end of its useful life, the Project would be decommissioned, and the land returned to its pre-Project conditions. Revegetation would be conducted in accordance with the Decommissioning and Revegetation Plan.

ES.2 Project Objectives

The Applicant's purpose for the Project is to generate, store, and transmit renewable energy to the statewide wholesale electricity grid. The Applicant's identified Project objectives are:

- 1. Support achievement of President Biden's goal of a zero-carbon power sector by 2035 and zerocarbon economy by 2050 through development of clean electricity (power sector);
- Assist the nation to meet its Nationally Determined Contribution commitments under Article 4 of the Paris Climate Agreement to achieve a 50 to 52 percent reduction in U.S. greenhouse gas pollution from 2005 levels by 2030, and to achieve 100 percent carbon pollution-free electricity by 2035 in the electricity sector;
- 3. Further the purpose of Secretarial Order 3285A1, establishing the development of environmentally responsible renewable energy as a priority for the Department of the Interior;

4. Deliver up to 400 MW of affordable, wholesale renewable energy to California ratepayers under long-term contracts with electricity service providers;

7-9

- Assist with achieving California's renewable energy generation goals under the Clean Energy and Pollution Reduction Act of 2015 (Senate Bill 350) and the 100 Percent Clean Energy Act of 2018 (Senate Bill 100), as well as greenhouse gas (GHG) emissions reduction goals of the California Global Warming Solutions Act of 2006 (AB 32), as amended by Senate Bill 32 in 2016;
- Enhance California's fossil-free resource adequacy capabilities and help to solve California's "duck curve" power production problem by installing up to 650 MW of 2-hour and/or 4-hour battery energy storage capacity¹;
- 7. Minimize environmental impacts and land disturbance associated with solar energy development by siting the facility on relatively flat, contiguous lands with high solar insolation, in close proximity to established utility corridors, existing transmission lines with available capacity to facilitate interconnection, and road access;
- 8. Conform with the Desert Renewable Energy Conservation Plan, including Conservation Management Actions;
- 9. Bring living-wage jobs to Riverside County;
- 10. Bring sales tax revenues to Riverside County by establishing a point of sale in the County for the procurement of most major Project services and equipment;
- 11. Make the highest and best use of primarily disturbed, retired agricultural land in and around a federal "Solar Energy Zone" and "Development Focus Area" to generate, store, and transmit affordable, wholesale solar electricity.
- 12. <u>Develop a commercially financeable renewable energy project.</u>

ES.3 Public Involvement

ES.3.1 Notice of Preparation

In compliance with State CEQA Guidelines Section 15082, a Notice of Preparation (NOP) was issued for publication of the Draft EIR on November 14, 2022 (State Clearinghouse Number 2022-11-0240). The NOP briefly described the proposed Project, its location, the environmental review process, potential environmental effects, and opportunities for public involvement. The NOP solicited input regarding the scope and content of the environmental information to be included in the EIR.

ES.3.2 CEQA Public Scoping

The public scoping period commenced on November 14, 2022, with the issuance of the NOP, which summarized the proposed Project and requested comments from interested parties. Riverside County conducted a public scoping meeting in-person at the Riverside County Planning Department on December 5, 2022, to inform the public about the Project, provide information regarding the environmental review process; and gather public input regarding the scope and content of the Draft EIR. The scoping meeting in person and virtually. Approximately 20 people attended the scoping meeting in person and virtually. The public scoping period ended on January 6, 2023. In total, 46 different entities submitted written comment letters during the CEQA scoping period.

¹ Battery duration may be up to 8 hours depending on technology and final design.

ES.3.3 Areas of Controversy/Public Scoping Issues

Concerns expressed by the public and agencies at the scoping meeting and during the public scoping period were regarding these resource topics: project description, purpose and need, visual resources, air quality and greenhouse gas emissions, cultural and tribal cultural resources, existing and planned land uses, energy, noise and vibration, public health and safety, recreation and off-highway vehicle use, transportation and traffic, hazards and hazardous materials, hydrology and water quality, soils, biological resources, mitigation measures, indirect and cumulative impacts, alternatives, and permitting and consultation, among other issues. A scoping summary report is provided in EIR Appendix B. Public scoping comments are summarized in EIR Section 1.7 (Scoping Comments) and in the individual resource topics addressed in Chapter 3 (Environmental Analysis).

ES.3.4 <u>Review of Draft EIR</u>

A Notice of Completion (NOC) was filed with the State Clearinghouse to begin the 45-day public review period (Public Resources Code [PRC], Section 21161) for the Draft EIR on January 26, 2024. Pursuant to PRC Section 21092.3 and State CEQA Guidelines Section 15087(c), a notice of availability of the Draft EIR was posted in the Riverside County Clerk's office. The Draft EIR was distributed directly to agencies, organizations, and interested individuals, and made publicly available for review and comment in accordance with Section 15087 of the CEQA Guidelines and PRC 21092(b)(3).

<u>Comments received during the Draft EIR comment period include: 3 from agencies, 11 from businesses/</u> <u>organizations, 3 from tribes, and 13 from individuals.</u>

<u>EIR revisions in this Final EIR are noted with</u> strikeout for deletions of text and in underline for new text in sections of the original Draft EIR, and as double strikeout and double underline indicating revisions made to the Partially Recirculated Draft EIR.

ES.3.5 <u>Revisions to Draft EIR in the Partially Recirculated Draft EIR</u>

In compliance with CEQA, the County prepared and circulated a Partially Recirculated Draft EIR for the Easley Project. The County determined that new or clarified information required recirculation of certain chapters of the original Draft EIR in accordance with Section 15088.5 of the CEQA Guidelines. The CEQA Guidelines state that "[w]hen recirculating a revised EIR, either in whole or in part, the lead agency shall, in the revised EIR or by an attachment to the revised EIR, summarize the revisions made to the previously circulated draft EIR" (see CEQA Guidelines, Section 15088.5, subd. (g)).

Revisions included in the Partially Recirculated Draft EIR included:

Description of the Proposed Project and Alternatives (Chapter 2)

The Description of the Proposed Project and Alternatives chapter has been revised to provide an updated description of the proposed Project and alternatives, including a description of five new alternatives, as follows.

- Lighting of Gen-tie Line Crossing Structures. Depending on the outcome of the BLM-DoD consultation, infrared obstruction lighting (not visible to the human eye) may be installed in the area of one crossing of an existing transmission line on Easley structure(s) over 180 feet high (see Section 2.3.4).
- Best Management Practices. In Section 2.7, the Applicant has added a list of commenter-requested best management practices (BMPs) to be implemented during site preparation and construction. Section 2.7 also discusses compliance with Conservation and Management Actions (CMAs) that would be required by BLM under the DRECP LUPA and would apply to Project development on BLM-

administered land. The Applicant has stated that it will comply with applicable DRECP CMAs on private lands. The DRECP CMAs are listed in a new EIR Appendix CC.

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- No Project Alternative (Alternative A2). Under the No Project Alternative, an additional analysis of Uses Allowed by Right within the Existing Land Designations (Alternative A2) has been added to EIR Section 2.8.2, which assumes development of scattered rural residences on private parcels in the Project area.
- No Project Alternative (Alternative A3). Under the No Project Alternative, an additional analysis of Development of Other Renewable Energy within the Existing Land Designations (Alternative A3) has been added to EIR Section 2.8.3, which assumes development of the federal lands under the existing Development Focus Area designation and with other solar, wind, or geothermal generation projects and development of the private lands under the current General Plan and Zoning designations if the proposed Project is not approved or constructed.
- Reduced Footprint Alternative (Alternative B). The "Lake Tamarisk Alternative (Alternative 1)" in the Draft EIR has been renamed as the Reduced Footprint Alternative (Alternative B) throughout the Recirculated Draft EIR. As described in EIR Section 2.8.3, the Reduced Footprint Alternative would remove an additional 20 acres of solar panels directly north of the community of Lake Tamarisk (50 acres total). With this reduction in acreage, the electrical output would be reduced by approximately 7 to 10 MW (up to 390 MW) compared to the proposed Project (up to 400 MW).
- Further Reduced Footprint Alternative with Berms (Alternative C). EIR Section 2.8.4 describes an additional Reduced Footprint Alternative 2 (Alternative C), which includes the following components shown in a new Figure 2-15 (see EIR Appendix A): (1) minimum buffer zone setback of one mile from the Lake Tamarisk Desert Resort borders, including the "Phase II" expansion area; (2) earthen berms at 2 locations; and (3) onsite substation relocation and gen-tie line relocation.
- Offsite Alternative (Alternative D). Commenters on the Draft EIR requested consideration of alternatives east of State Route (SR-) 177/Rice Road on BLM-managed lands farther from the community of Lake Tamarisk Desert Resort. Therefore, the Offsite Alternative would involve the construction, operation, maintenance, and decommissioning of an up to 400 MW solar facility, up to 650 MW BESS, and a 500 kV gen-tie line on lands that were originally included in the Applicant's application to BLM. The alternative is described in EIR Section 2.8.5.
- Distributed Commercial and Industrial Rooftop Solar Alternative (Alternative E). The Partially Recirculated Draft EIR analyzes a new Distributed Commercial and Industrial Rooftop Solar Alternative, which would involve the development of a number of geographically distributed small to medium solar PV systems (100 kilowatt hours to 1 MW) within existing developed areas, typically on the rooftops of commercial and industrial facilities situated throughout Riverside County. The alternative is described in EIR Section 2.8.6.

Environmental Setting, Impacts, and Mitigation Measures (Chapter 3)

<u>Certain subchapters within Chapter 3, Environmental Setting, Impacts, and Mitigation Measures, have</u> been revised and recirculated, as summarized below:

Aesthetics (Chapter 3.2). The Aesthetics chapter has been revised to include updated information relating to the adjacent Oberon project, a new Key Observation Point 7 (facing north from Lake Tamarisk Desert Resort), additional discussion of glare impacts, and an updated analysis of County General Plan Policy LU 9.1 related to permanent preservation of open space lands that contain impor tant natural resources, cultural resources, hazards, water features, watercourses including arroyos and canyons, and scenic and recreational values.

Agriculture and Forestry (Chapter 3.3). The Agriculture and Forestry chapter has been revised to change Impacts AG-1 and AG-3 to a less-than-significant impact. The EIR concludes that potentially significant impacts would be avoided through cancellation of the Williamson Act contracts and removal of lands within the Project site from County agricultural preserves, as requested by the Project applicant.

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- Biological Resources (Chapter 3.5). The Biological Resources chapter has been revised to more clearly describe DRECP Conservation and Management Actions (CMAs) that would apply to the Project, including compensatory mitigation, as well as issues related to desert pavement. Certain mitigation measures have been revised to further clarify plan requirements and performance standards. The revisions do not result in greater environmental impacts or more significant impacts.
- Cultural and Tribal Cultural Resources (Chapter 3.6). The Cultural Resources chapter has been revised to address cultural and tribal resources impacts on BLM-administered land, comments raised about the Lake Tamarisk Desert Resort as a potential historic resource, and comments raised by the Colorado Indian River Tribes that the Project is located in and would adversely impact a cultural and tribal cultural resources. In the Partially Recirculated Draft EIR, cumulative visual impacts to Prehistoric Trails Network Cultural Landscape from the development of the Project in combination with other past, present, and reasonably foreseeable solar projects in the area would be significant and unavoidable, and the Project's incremental contribution to those visual impacts would be cumulatively considerable.
- Hydrology and Water Quality (Chapter 3.11). The Hydrology and Water Quality chapter has been revised to more clearly describe Project impacts to water supply. The section states that because the cumulative scenario under normal conditions indicates a potential groundwater deficit, the County conservatively concludes that cumulative impacts would be potentially significant., however, the Project's incremental contribution is not considered cumulatively considerable.

Comparison of Alternatives (Chapter 5)

In the Partially Recirculated Draft EIR, the Comparison of Alternatives chapter was revised to combine and consolidate the analyses of Project alternatives that was previously separated and included within the Original Draft EIR under each subchapter of Chapter 3. The Comparison of Alternative chapter also includes new analysis of five new alternatives: No Project Alternative A2 (Uses Allowed by Right within Existing Land Designations), No Project Alternative A3 (Development of Other Renewable Energy within the Existing Land Designations), Alternative C (Further Reduced Footprint Alternative with Berms), Alternative D (Offsite Alternative), and Alternative E (Distributed Commercial and Industrial Rooftop Solar Alternative).

Chapter 5 now describes the environmentally superior alternative as the Further Reduced Footprint Alternative with Berms (Alternative C). While Alternative C is the Environmentally Superior Alternative, it would result in a reduction of 80 to 110 MW of renewable energy compared to the proposed Project, which reduces its ability to achieve the most important project objectives of meeting State and federal renewable energy goals to counter climate change. Therefore, because Alternative B, the Reduced Footprint Alternative (formerly called the Lake Tamarisk Alternative) meets these critical project objectives to a greater degree and reduces impacts to the Lake Tamarisk community compared to the proposed Project, it is considered to be the next most Environmentally Superior Alternative.

References (Chapter 7)

<u>References for sections included in the Partially Recirculated Draft EIR have been included and updated,</u> <u>as applicable.</u>

EIR Appendices

The Partially Recirculated Draft EIR included updated and new appendices, as follows:

- EIR Appendix A, new and revised/updated figures included:
 - <u>Revised Figure 2-3 (Easley Renewable Energy Project Preliminary Engineering)</u>
 - <u>Revised Figure 2-6 Typical Single Axis Tracker with Portrait Module Orientation</u>
 - <u>Revised Figure 2-14 (Alternative B: Reduced Footprint Alternative)</u>
 - New Figure 2-15 (Alternative C: Further Reduced Footprint Alternative with Berms)
 - <u>New Figure 2-16 (Alternative D: Offsite Alternative)</u>
 - Revised Figure 3.1-1 (Cumulative Projects)
 - New Figure 3.3-1 (Parcels with Williamson Act Contracts)
 - <u>New Figure 3.5-11 (Alternative D, Offsite Alternative, Biological Resources)</u>
- EIR Appendix C, Biological Resources Technical Report, was updated to discuss Crotch's bumble bee, as well as make consistency edits to the discussions of desert pavement and the rare plant inventory list.
- EIR Appendix F, Jurisdictional Delineation, has been revised to reflect updated disturbance acreages.
- EIR Appendix G, Water Supply Assessment, was revised to clarify the connection between the data and the report conclusions.
- EIR Appendix I, Visual Impact Analysis and Glare Assessment, was revised to add a new Key Observation Point as well as glare modeling of low-level military flight paths in the Desert Center area. The revisions have been incorporated into EIR Section 3.2 (Aesthetics).

The following new appendices were added in the Partially Recirculated Draft EIR:

- Appendix M Bird and Bat Conservation Strategy
- Appendix N Integrated Weed Management Plan
- Appendix O Nesting Bird Management Plan
- Appendix P Desert Tortoise Protection and Translocation Plan
- Appendix Q Raven Management Plan
- Appendix R Wildlife Protection and Translocation Plan
- Appendix S Vegetation Resources Management Plan
- Appendix T Health, Safety and Noise Plan
- <u>Appendix U</u> Dust Control Plan
- Appendix V Fire Management and Prevention Plan
- Appendix W Hazardous Materials Management Plan
- Appendix X Environmental Compliance and Monitoring Plan
- Appendix Y Closure, Decommissioning, and Reclamation Plan
- Appendix Z Easley sUAS Flight Operations Plan
- Appendix AA Helicopter Safety Plan
- Appendix BB Hydrological Study
- Appendix CC BLM DRECP Conservation and Management Actions

ES.3.6 <u>Review of the Partially Recirculated Draft EIR</u>

Consistent with the requirements of Sections 15087 and 15088.5(d) of the State CEQA Guidelines, the Partially Recirculated Draft EIR was made available on May 24, 2024, for public review for a period of 45 days. During the period, the general public, agencies, tribes, and organizations were invited to submit written comments on the content of Partially Recirculated Draft EIR to Riverside County. The 45-day public comment period ended on July 8, 2024.

The Partially Recirculated Draft EIR was available for review online at http://www.rctlma.org/planning/. To request a hardcopy, the public was directed to reach out to Tim Wheeler. Pursuant to procedures set forth in Section 15088.5(f)(2) of the State CEQA Guidelines, reviewers were directed to limit their comments to the revised information contained in the Partially Recirculated Draft EIR. Reviewers need not resubmit comments on the original Draft EIR. Comments received on the Draft EIR, as well as comments on the Partially Recirculated Draft EIR, will all be responded to in the Final EIR. However, Riverside County will not respond to comments on the Partially Recirculated Draft EIR that do not pertain to the recirculated text.

Per CEQA Guidelines 15085, a Notice of Completion was filed with the State of California Governor's Office of Planning and Research (State Clearinghouse) on May 24, 2024. The Notice of Availability (NOA) of a Partially Recirculated Draft EIR was filed with the Riverside County Clerk on May 24, 2024 (CEQA Guidelines Section 15087) and mailed to over 650 agencies, tribes, businesses/organizations, and individuals. The NOA announced the commencement of the public review of the Partially Recirculated Draft EIR. A legal notice of availability of the Partially Recirculated Draft EIR was also published in the Desert Sun newspaper on June 1 and June 8, 2024, and in the Press Enterprise on May 31 and June 7, 2024.

Comments received during the Partially Recirculated Draft EIR comment period include: 2 from agencies, 2 from tribes, 11 from businesses/organizations, and 16 from individuals. Issues raised included concerns about the residents of the Lake Tamarisk Desert Resort related to air emissions/dust, Valley Fever/silica (health), noise, visual resources, traffic, water quantity and quality, as well as impacts to biological resources, namely impacts to desert tortoise, desert dry wash woodland and its buffer, the multi-species linkage corridor, cultural and tribal resources, project description, alternatives, impact significance, compliance with the DRECP CMAs, BLM's DRECP DFA land designations, and the environmentally superior alternative.

Consistent with the procedures set forth in Section 15088.5(f)(2) of the State CEQA Guidelines, this Final EIR responds to (i) comments received during the initial circulation period that relate to chapters or portions of the Original Draft EIR that were not revised and recirculated as part of the Partially Recirculated Draft EIR, and (ii) comments received during the comment period on the Partially Recirculated Draft EIR that relate to the chapters or portions of the Original Draft EIR that relate to the chapters or portions of the Original Draft EIR that were revised and recirculated as part of the Partially Recirculated Draft EIR. This Final EIR does not respond to comments on the Partially Recirculated Draft EIR that do not pertain to the recirculated text.

ES.4 Proposed Project

ES.4.1 Project Location

The Easley Project, including the solar and energy storage facilities, are located on private and BLMadministered land in Riverside County north of Interstate 10 (I-10) and approximately 2 miles north of the town of Desert Center, California (See Figure 2-1, Project Vicinity, in Appendix A). Nearby land uses include previously developed or developing solar facilities, transmission lines, fallow and active agriculture, and residences. The private parcels consist of primarily manmade features that include deciduous orchard/ fallow agriculture or developed areas. Lake Tamarisk Desert Resort is located approximately 750 feet from the southwest corner of the proposed Project.

The existing desert Sunlight and Desert Harvest solar projects are north of the proposed Project, and the Athos Renewable Energy Project is located to the east, the Oberon Renewable Energy Project to the southeast, and the Palen Solar Project farther to the southeast. Solar projects that are under construction nearby include the Oberon Renewable Energy Project to the southeast and the Arica and Victory Pass Solar Projects to the southeast. The Sapphire Solar Project, proposed by EDF Renewables, is adjacent to the northern area of the Easley Project. Figure 2-4 (Desert Center Solar Projects & DRECP Context) shows the proposed Easley Project in relation to other existing, approved, and proposed solar facilities in eastern Riverside County and illustrates the proposed consolidation of the gen-tie line corridors.

ES.4.2 Project Components

The major components of the proposed Project are listed below and are described in greater detail in Chapter 2, Description of the Proposed Project:

- Solar and Energy Storage Facility (990 acres of private land, 2,745 acres of BLM-administered land):
 - Solar array field, which may include thin-film PV panels, crystalline silicon panels, or any other commercially available PV technology. The proposed panel mounting system will depend on the PV panels ultimately selected but is expected to be single-axis trackers with a portrait module orientation. Either mono-facial or bi-facial modules could be used, and modules would either be mounted as single panels or stacked two high.
 - **Power conversion stations** on a concrete pad or steel skid for each 2 to 5 MW increment of generation, containing up to 6 inverters, a transformer, a battery enclosure, a switchboard 8 to 11 feet high, a shade structure (depending on meteorological conditions), and a security camera at the top of an approximately 20-foot wood or metal pole.
 - System of 34.5 kV interior collection power lines located between inverters and <u>the</u> substations, located <u>either</u> underground <u>or</u> and installed overhead on wood poles for short segments due to engineering or other feasibility constraints.
 - At least one, and up to 2, oOnsite substation yards, each with an onsite substation and associated equipment would require 25 acres within the Project site. Electrical transformers, switchgear, and related substation facilities would transform 34.5 kV medium-voltage power from the Project's delivery system to the 500 kV gen-tie line system.
 - Upgrades to the Oberon <u>Substation</u><u>Switchyard</u>, including installation of a circuit breaker, disconnect <u>switches</u>, steel H-frame (transmission getaway), and controls upgrades, within its fenceline to accommodate interconnection of the Easley 500 kV gen-tie line.
 - One oOperations and maintenance (O&M) building facilities near the main substation yard for Project security, employee offices, and parts storage separate buildings for substation and BESS operations. The O&M building would be constructed on a concrete foundation, approximately 6 feet by 20 feet in size and approximately 15 feet at its tallest point. The O&M facility would also include four to six 40-foot CONEX containers spaced about 15 feet apart with some of the space between covered by shade structures. The location of the O&M building within the Project site has not yet been determined, but it is anticipated to be near the main substation yard.
 - 12 kV electrical distribution line would supply electricity to the O&M building and substation via a
 new overhead or underground 12 kV distribution line from the existing SCE distribution system adjacent to the solar facility site. In addition, approximately 0.25 mile of existing SCE 12 kV distribution
 line would need to be relocated to accommodate development of solar panels. The relocated
 distribution line would be located on BLM-administered land east of Rice Road and would follow
 existing linear infrastructure.
 - Supervisory Control and Data Acquisition System (SCADA) and telecommunications facilities to allow remote monitoring of facility operation and/or remote control of critical components. The fiber-optic or other cabling typically would be installed in buried conduit within the access road, leading to a SCADA system cabinet centrally located within the Project site or a series of appropriately located SCADA system cabinets constructed within the O&M building. External telecommunications connections to the SCADA system cabinets could be provided through wireless or hard-wired connections to locally available commercial service providers.

• **Meteorological (MET)** data collection system with up to <u>14</u> MET stations throughout the solar facility. Each MET station would be up to 10 feet tall with multiple weather sensors.

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- Battery energy storage system (BESS), requiring up to 35 acres, located near the substation. Utilizing an AC-coupled battery or other similar storage system housed in electrical enclosures and capable of storing up to 650 MW of power for up to 4 hours. The BESS could store power for up to 8 hours, depending on technology and final design.
- Standby power source, if needed, is anticipated to be a diesel-powered backup generator rated at 45 kilowatts or approximately 61 horsepower, to power the site security system in the event of an outage.
- **Perimeter fencing** would be installed around the boundary of the developed areas using chain-link perimeter fences.
- Newly constructed access roads from Highway 177/Rice Road and throughout the interior of the Project limits. Ingress/egress would be accessed via locked gates located at multiple points.
- Nighttime security lighting limited to areas required for operation, safety, or security. Lighting would be directed away or shielded from major roadways or possible outside observers on adjacent properties. Lighting would be controlled by switches, motion detectors, etc., to light the areas only when required. Portable lighting may be used occasionally and temporarily for maintenance activities during operations.
- Site security system includes infrared security cameras, motion detectors, and/or other similar technology to allow for monitoring of the site through review of live footage 24 hours a day, 7 days a week. Such cameras or other equipment would be placed along the perimeter of the facility and/or at the inverters.
- New 500 kV Gen-tie Line (approximately 6.7 miles, within a 175-foot right-of-way [ROW] on BLMadministered land).

ES.4.3 Applicant Proposed Measures

As part of the Project, the Applicant proposes to implement measures to ensure the Project would occur with minimal environmental impacts and in a manner consistent with applicable rules and regulations. These measures would be implemented during the design, construction, and operation of the Project.

The Applicant Proposed Measures (APMs) listed below are considered part of the Project and are considered in the evaluation of environmental impacts (see Section 3, Environmental Analysis). Project approval would be based upon the Applicant adhering to the Project as described in this document, including this project description and the APMs, as well as any mitigation measures that may be imposed as conditions of approval.

APM AES-1 Weathering Coating of Security Fencing. To reduce operational visual impacts of the Project to the community of Lake Tamarisk, the Project owner will apply a weathering coating (Natina or substantially similar) to the Project security fencing located closest to the <u>c</u>Community. <u>The coating would reduce the occurrence of reflectance</u>, which would be visually distracting and the <u>typically</u> earth-tone color of the coating would reduce the industrial character of the fencing and help it to blend more effectively with the surrounding landscape. The total length of fencing that will be coated is approximately one mile and may be contiguous or <u>in</u> separate sections, depending on the final Project design and the location(s) of most visible security fencing. APM CULT-1 Native American Monitoring. The Applicant will enter into an agreement with interested culturally-affiliated and/or consulting tribe(s) to employ at least one Native American Monitor per archaeological monitor. A Native American monitor will be called immediately upon discovery of a cultural resource if a Native American monitor is not already present. In conjunction with the County- and BLM-approved archaeologist(s), the Native American Monitor will be invited to monitor all initial ground disturbing activities and excavation of each portion of the Project site including clearing, grubbing, tree removals, grading and trenching, as outlined in the Project's Cultural Resource Monitoring Plan (see Mitigation Measures [MMs] CUL-1 and TCR-1), and attend meeting(s) to discuss the significance of unanticipated find(s) and appropriate treatment of unanticipated resources. The Applicant will immediately alert interested culturally-affiliated and consulting tribes in the event of an unanticipated discovery. "Native American Monitor" means an individual who is presented as a representative of a tribal government for one of the culturally-affiliated or consulting tribes for the Easley Project and who has received specialized training approved by that tribal government to serve as a monitor.

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APM NOISE-1 Construction Timing. Applicant will avoid or minimize use of any impact hammer for pile driving or other equipment similarly capable of producing disruptive noise during construction activities within a one-mile radius from the residential parcel on the northeast corner of the Lake Tamarisk Desert Resort community during the winter months of highest residency (November 1 to March 31). If based on the final construction schedule, use of such equipment is necessary within this geographic area during the aforementioned time period, the Applicant will avoid or minimize this construction activity prior to 7:00 am and after 6:00 pm. The Applicant will also avoid nighttime equipment deliveries between 10:00pm and 7:00am.

In response to comments raised during the Draft EIR comment period, the Applicant also commits to the specific best management practices (BMPs) during site preparation and construction (see EIR Section 2.7). Additional BMPs identified in the Project's Fugitive Dust Control Plan would also be implemented during all grading and vegetation removal activities.

The Easley Project will also fully comply with all applicable Desert Renewable Energy Conservation Plan (DRECP) Conservation and Management Actions (CMAs) on BLM-administered land, and the Applicant has stated that the Easley Project will also voluntarily comply with all applicable DRECP CMAs on private lands. A detailed BLM Project consistency CMA analysis is provided in EIR Appendix CC.

ES.5 Alternatives

ES.5.1 Alternatives Development

Alternatives to the proposed Project were identified through the scoping process, informational public meetings, and preliminary studies.

ES.5.2 Alternatives Analyzed in Detail

This EIR includes detailed evaluations of a Lake Tamarisk Alternative, the following action alternatives and an evaluation of a No Project Alternative, as required under CEQA.

Alternative <u>A</u>1: No Project Alternative. Under the No Project Alternative, the construction of a solar generating facility and associated infrastructure would not occur. This alternative discusses existing conditions as well as what would be reasonably expected to occur in the foreseeable future if the Project was not approved and does not take place. <u>Three options are considered: a no build alternative</u>

(A1), uses allowed by right within existing land use designations (A2), and renewable energy development within the existing land designation (A3).

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- Alternative <u>B</u>2: <u>Lake TamariskReduced Footprint</u> Alternative. Under the <u>Lake TamariskReduced Footprint</u> Alternative, the Project would be similar to the proposed Project but would move the onsite substation and BESS and would remove approximately <u>30–50</u> acres of solar panels closest to the community of Lake Tamarisk, such that the solar panels, substation, and BESS would be farther from the community of Lake Tamarisk compared to the proposed Project. The electrical output and energy storage capacity would not be appreciablybe reduced by up to 10 MW compared to the proposed Project.
- Alternative C: Further Reduced Footprint Alternative with Berms. The Further Reduced Footprint Alternative with Berms would include a greater than one-mile buffer around the community of Lake Tamarisk, installation of 2 earthen berms, and relocation of the substation, BESS, and O&M building.
- Alternative D: Offsite Alternative. Under the Offsite Alternative, the Project would be constructed on BLM-administered lands located east of State Route 177/Rice Road. These alternative parcels were included in the Applicant's original development application to BLM.
- Alternative E: Distributed Commercial and Industrial Rooftop Solar Alternative. A Distributed Solar Alternative would consist of PV panels that would absorb solar radiation and convert it directly to electricity. The PV panels could be installed on residential, commercial, or industrial building rooftops, parking lots or areas adjacent to existing structures such as substations. To create a viable alternative to the proposed Project, there would have to be sufficient newly installed panels to generate up to 400 MW of capacity, which would be similar in size to the proposed Project.

ES.5.3 Alternatives Considered but Eliminated

CEQA requires an EIR to consider a reasonable range of alternatives to the Project that would feasibly attain most of the basic objectives of the Project. In addition, CEQA requires the consideration of how to avoid or substantially lessen any adverse effects of the proposed Project.

A number of potential alternatives to the proposed Project were identified. Some of these alternatives did not have the potential to meet the Project objectives, or the potential to avoid or minimize adverse environmental effects. Initial evaluation revealed that others are infeasible. The following alternatives were considered but eliminated from further evaluation, for the reasons explained below:

- Federal Land Alternative. An alternative site on BLM-managed lands farther from the community of Lake Tamarisk Desert Resort would not likely reduce any potentially significant impacts from the proposed Project, as the proposed Project is sited primarily on previously disturbed private lands and BLM-administered lands within a DFA. Also, it may not be feasible to find an alternative site on BLM-managed lands, because most of the land within the DFA is in use, proposed for other solar energy projects, have constraints with implementation of DRECP Conservation and Management Actions (CMAs), or are within mountainous areas and areas with hydrological concerns. The Federal Land Alternative would not present significant environmental advantages over the proposed Project and has thus been eliminated from consideration. Note that an alternative east of State Route 177/Rice Road has been evaluated in this EIR as Alternative D (Offsite Alternative).
- Private Land Alternative. An alternative that would develop the solar facility on other private lands elsewhere was not considered further, because it is considered speculative and infeasible based on the number of landowners whose agreement would be required. In addition, another site, such as one farther from the community of Lake Tamarisk, would likely have environmental impacts equal to or greater than the proposed site, which is located on disturbed private land and BLM-administered land that is within a DRECP DFA, and thus, targeted for renewable energy development.

- Alternative Solar Technologies. The following alternative solar technologies have been screened and eliminated from detailed analysis since they are considered infeasible.
 - Solar Power Tower Technology. Solar power tower technology is a concentrating solar power (CSP) technology that tracks the sun and focuses solar energy on a central receiver atop a high tower to heat a transfer fluid to produce steam to run a power generator. This alternative was eliminated from consideration because no substantial reduction in impacts would occur under this alternative technology and visual impacts would be greater due to the height of the towers. Due to the extent of the facility, the height of the power towers and a greater potential for glare, impacts to the Desert Center Airport would be potentially greater under this alternative. It has also been suggested that power tower projects pose a greater risk to avian species by creating an invisible zone where the concentrated solar power can singe feathers and interfere with flight.
 - Solar Parabolic Trough Technology. Parabolic trough technology is a CSP technology that uses large U-shaped (parabolic) reflectors (focusing mirrors) that have fluid-filled pipes running along their center, or focal point. Parabolic trough technology has been eliminated from consideration because it would have the potential for more severe impacts than the proposed solar PV technology due to more dramatic degradation of visual resources (due to use of mirrors), more extensive ground disturbance, increased industrial construction for the generators, and use of potentially hazardous heat transfer fluids.
 - Distributed Solar Technology. A distributed solar alternative would use PV panels installed on residential, commercial, or industrial building rooftops or in other areas such as parking lots or disturbed areas adjacent to existing structures. Distributed generation projects cannot meet one of the fundamental objectives of a utility-scale solar project: to provide renewable energy to utility off-takers and their customers. Other challenges associated with the implementation of a distributed solar technology with comparable output to the proposed Project include widely varying codes, standards, and fees; environmental requirements and permitting concerns; interconnection of distributed generation; inefficiencies; and integration of distributed generation. As a result, this technology was eliminated from detailed analysis.
- Alternative Renewable Energy Technologies. Alternative renewable energy technologies, such as wind, geothermal, biomass, tidal, and wave power technologies, have been eliminated from consideration because they are not within the Applicant's area of expertise or not feasible at the Project site. While not an alternative to the proposed Project, a scenario of development by other developer(s) of other types of renewable energy technologies in the Project area has been included under the No Project Alternative (Alternative A3, Other Renewable Energy Development within Existing Land Designation).
- Conservation and Demand-Side Management. Affecting consumer choice to the extent that would be necessary for a conservation and demand-side management solution would be beyond the control of BLM, the County of Riverside, and/or the Applicant. Conservation and demand-side management has been eliminated from detailed analysis because it is considered remote or speculative and would not meet the stated Project objectives.
- Underground 500 kV Gen-Tie Line. An underground 500 kV gen-tie line would meet most of the basic project objectives and would reduce visual impacts. However, undergrounding 500 kV conductors would need a very wide ROW due to the required separation of buried conductors. Transition stations would be required for overhead to underground transitions at each end of the line; they would be very large and highly visible. In addition, an underground 500 kV line would increase the construction costs of these segments by more than 10 times that of overhead construction. Given the potential for increased significant environmental impacts associated with the construction, operation and main-

tenance of an underground 500 kV transmission line and the extremely high cost of the technology, undergrounding the gen-tie transmission line has been eliminated from further analysis.

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Earthen Berms. Installation of earthen berms to be used for visual screening of the solar and BESS facility from the community would change stormwater flow on and offsite, which could affect surface water flow and flooding of adjacent parcels and could also alter vegetation patterns. Furthermore, given the desert environment and sandy soil, an earthen berm would be difficult to stabilize with vegetation, and therefore, could become a source of erosion and sediment. The changed water flow paths due to adding berms would also have the potential to increase erosion due to water in new areas. Due to creation of greater hydrological and erosion concerns, use of earthen berms as a project design feature has been eliminated from consideration.

ES.6 Environmental Impacts

Detailed descriptions of impacts of proposed Project are provided in Chapter 3, along with a discussion of cumulative impacts. The impact analysis in the EIR was prepared by topic area and presents an assessment of the identified direct and indirect impacts and discloses the level of significance for each impact. It is assumed that the mitigation measures identified to reduce impacts of the proposed Project would also be implemented for any alternative. A significant impact is defined under CEQA as "a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project" (CEQA Guidelines § 15382). The categories of potential effects are provided below.

Direct Effects	Effects caused by the proposed Project that occur at the same time and place as the proposed Project
Indirect Effects	Effects caused by the proposed Project that occur later in time, or further in distance, but are still reasonably foreseeable
Residual Impacts	Impacts that still meet or exceed significance criteria after application of mitigation and, therefore, remain significant
Cumulative Impacts	Impacts resulting from the proposed Project when combined with similar effects of other past, present, and reasonably foreseeable future projects, regardless of which agency or person undertakes such projects (cumulative impacts could result from individually insignificant but collectively significant actions taking place over time)
Short-Term Impacts	Impacts expected to occur during construction or decommissioning that do not have lingering effects for an extended period after the activity is completed
Long-Term Impacts	Impacts that would persist for an extended period of time

The significance of each impact is determined based on an analysis of the impact, compliance with any recommended mitigation measure, and the level of impact remaining compared to the applicable significance criteria relevant to a particular resource. Impacts are classified as one of the five categories listed below.

Significant and	A substantial or potentially substantial adverse change from the environmental
Unavoidable	baseline that meets or exceeds significance criteria, where either no feasible mitiga-
	tion can be implemented, or the impact remains significant after implementation of
	mitigation measures

Less than Significant with Mitigation	A substantial or potentially substantial adverse change from the environmental baseline that can be avoided or reduced to below applicable significance thresholds
Less than Significant	An adverse impact that does not meet or exceed the significance criteria of a parti- cular environmental issue area and, therefore, does not require mitigation
Beneficial	An impact that would result in an improvement to the physical environment relative to baseline conditions
No Impact	A change associated with the Project that would not result in an impact to the physical environment relative to baseline conditions

ES.7 Alternatives Comparison and Environmentally Superior Alternative

ES.7.1 Alternatives Impact Summary

Alternative 1: No Project Alternative <u>A1 – No Build Alternative</u>. No substantially adverse and long-term impacts would occur to the environment as a result of the No Project Alternative <u>A1</u>. However, the No Project Alternative <u>A1</u> would not achieve any of the environmental benefits of increasing renewable energy generation consistent with federal goals and the State of California's Renewable Portfolio Standard (RPS) and <u>installation of energy storage to</u> helping to alleviate the "duck curve" problem.

No Project Alternative A2 – Uses Allowed by Right within Existing Land Designations. No substantially adverse and long-term impacts would occur to the environment as a result of the No Project Alternative A2. However, the No Project Alternative A2 would not achieve any of the environmental benefits of increasing renewable energy generation consistent with federal goals and the State of California's Renewable Portfolio Standard (RPS) and installation of energy storage to help alleviate the "duck curve" problem.

No Project Alternative A3 - Other Renewable Energy Development within Existing Land Designation. The land that would be developed by the proposed Project is designated as a DFA by the BLM, and allows renewable energy development technologies of solar, wind, or geothermal development. If the solar project is not built, the DFA designation would allow development of wind or geothermal generation. Wind generation would create severe aesthetic impacts from the presence of turbines and their night lighting. In addition, operation of wind turbines can create aviation conflicts, noise, and shadow flicker effects for nearby receptors. Geothermal generation is a major industrial operation, requiring drilling of wells for steam production and injection of geothermal fluids. It is visually significant in the desert setting, requires steam-driven turbines and cooling towers that emit noise and steam plumes, and requires steam and fluid pipelines running above ground across the site.

Alternative <u>B</u>2: <u>Lake Tamarisk Reduced Footprint</u> Alternative. Alternative <u>B</u>2 would have similar types of impacts to the proposed Project, but would disturb a slightly-smaller area within the Project application area and would move solar panel development and associated construction disturbances farther from the community of Lake Tamarisk. This alternative would not reduce any of the Project's significant and unavoidable impacts to a less-then-significant level or result in a change to overall impact classifications or significance conclusions. The Reduced Footprint Alternative would generate up to 10 MW less of renewable energy than the proposed Project.

Alternative C: Further Reduced Footprint Alternative with Berms. As requested in comments submitted by residents of the Lake Tamarisk Desert Resort, this alternative would modify the proposed Project by establishing a minimum buffer zone setback of one mile from the resort border, installing earthen berms in two locations, and relocating the onsite substation and gen-tie line. This alternative would eliminate the significant aesthetics impacts of the proposed Project from the Lake Tamarisk Desert Resort residences, but it would substantially increase the severity of public views from SR--177 (Rice Road) due to the substation location. In addition, constructing and maintaining the berms would be challenging given the anticipated level of erosion from wind and rainstorms, and the berms would redirect surface water flood flows in a manner that could create more severe erosion downstream.

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Alternative D: Offsite Alternative. Commenters suggested consideration of installing solar panels on BLMmanaged lands east of SR-177. The location of this development would eliminate the significant visual impacts of the proposed Project and its visibility from the Lake Tamarisk Desert Resort, and it would eliminate development within Williamson Act lands and the significant impact related to agriculture. However, it would require development within the extremely sensitive habitats of the sand transport corridor, which supports special-status plant and wildlife species. In order to develop the full generation of the proposed Project, development of this alternative would likely require an amendment to the BLM DRECP Land Use Plan Amendment to modify the existing requirements preventing development within the sand transport corridor. Such an amendment would allow development, but may also result in significant impacts to the species and habitats of the corridor. This alternative would also likely have more severe impacts to cultural resources due to its proximity to Palen Dry Lake, and it would result in severe dust and erosion due to disturbance of the sand transport corridor.

Alternative E: Distributed Commercial and Industrial Rooftop Solar Alternative.- This alternative would involve the development of a large number of geographically distributed small to medium solar PV systems within existing developed areas throughout Riverside County. PV systems would be installed typically on the rooftops of commercial and industrial facilities. Because no new land would be developed or altered, this alternative would result in no habitat loss or grading, and aesthetics impacts would be minor in the context of existing development. Installation and maintenance would result in vehicle emissions and traffic increases similar to the proposed Project, but they would occur in a widely dispersed geographic area. Because this alternative would not include installation of 650 MW of battery storage that would be included with the proposed Project, it would not meet project objectives related to extending renewable energy availability into the evening hours.

ES.7.2 Comparison of Alternatives to the Proposed Project

Each alternative was evaluated for its ability to meet the Applicant's Project objectives and purpose and need for the proposed Project, which are listed in Section ES.2 (Project Objectives). The No Project Alternatives (A1 and A2) would fail to meet any of the Project's objectives and would not achieve any of the environmental benefits increasing renewable energy generation consistent with federal goals and the State of California's Renewable Portfolio Standard (RPS) and helping to alleviate the "duck curve" problem.

The Lake Tamarisk Reduced Footprint Alternative, Further Reduced Footprint Alternative with Berms, Offsite Alternative would meet nearly all Project objectives. The Lake Tamarisk Alternative B, Alternative C, and No Project Alternative A3 would not reduce any of the Project's significant and unavoidable impacts to a less-then-significant level or result in a change to overall impact classifications or significance conclusions. In the context of the numerous existing solar facilities and gen-tie lines, the Offsite Alternative (Alternative D) would cause adverse but less-than-significant visual effects.

Table ES-1 compares the potential impacts of the proposed Project to the alternatives evaluated. The table compares the project alternatives based on differences in the level of similar impacts resulting from ground disturbance, as well as the size and duration of construction activities, operations and decommissioning.

Environmental Resource	Alternative A1: No Build	Alternative A2: Uses Allowed by Right within Existing Land Designations	Alternative A3: Other <u>Renewable Energy</u> <u>Development within</u> <u>Existing Land</u> <u>Designations</u>	Alternative B: Reduced Footprint Alternative	Alternative C: Further Reduced Footprint Alternative with Berms	Alternative D: Offsite Alternative	Alternative E: Distributed Commercial and Industrial Rooftop Solar Alternative
<u>Aesthetics</u>	<u>Resources wi</u> <u>No Impact</u> <u>Fewer</u>	<u>th Significant and U</u> LTS Fewer	<u>navoidable Project-Spe</u> <u>S/U</u> <u>Greater</u>	<u>S/U</u> <u>Fewer</u>	LIATIVE Impacts for the second	<u>LTS</u> <u>Fewer</u>	<u>oject</u> <u>LTS</u> <u>Fewer</u>
<u>Cultural and</u> Tribal Cultural Resources	<u>No Impact</u> <u>Fewer</u>	Not Cumulatively Considerable Fewer	<u>Cumulatively</u> <u>Considerable</u> <u>Similar</u>	<u>Cumulatively</u> <u>Considerable</u> <u>Similar</u>	<u>Cumulatively</u> <u>Considerable</u> <u>Similar</u>	<u>Cumulatively</u> <u>Considerable</u> <u>Similar</u>	<u>Not Cumulatively</u> <u>Considerable</u> <u>Fewer</u>
		Resources	with Less than Significa	nt Impacts for the	e Proposed Project		
Air Quality	<u>Greater</u>	Greater	<u>Similar</u>	<u>Similar</u>	Fewer	<u>Similar</u>	<u>Similar</u>
Agriculture and Forestry	Fewer	Fewer	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer	Fewer
Biological Resources	<u>Fewer</u>	<u>Fewer</u>	<u>Greater</u>	<u>Similar</u>	<u>Fewer (buffer);</u> Greater (berms)	<u>s/u</u>	Fewer
Energy	Greater	Greater	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>
Geology, Soils, and Mineral Resources	<u>Fewer</u>	<u>Fewer</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Greater</u>	Fewer
Greenhouse Gas Emissions	Greater	Greater	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Greater
Hazards and Hazardous Materials	<u>Fewer</u>	<u>Fewer</u>	<u>Greater</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer
Hydrology and Water Quality	Fewer	Fewer	Greater	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer
Land Use and Planning	Fewer	Fewer	Greater	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer
Noise and Vibration	Fewer	Fewer	<u>Greater</u>	Fewer	Fewer	Fewer	Fewer
Paleontological Resources	Fewer	Fewer	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer	Fewer
Population and Housing	<u>Fewer</u>	Fewer	<u>Greater</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Fewer</u>
Public Services and Utilities	Fewer	Fewer	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer
Recreation	Fewer	Fewer	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer

Table ES-1. Comparison of Alternatives to the Proposed Project

Environmental Resource	<u>Alternative A1:</u> <u>No Build</u>	Alternative A2: Uses Allowed by Right within Existing Land Designations	Alternative A3: Other Renewable Energy Development within Existing Land Designations	<u>Alternative B:</u> <u>Reduced</u> Footprint <u>Alternative</u>	Alternative C: Further Reduced Footprint Alternative with Berms	<u>Alternative D:</u> <u>Offsite</u> <u>Alternative</u>	Alternative E: Distributed Commercial and Industrial Rooftop Solar Alternative
Traffic and Transportation	<u>Fewer</u>	Fewer	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer
Wildfire	Fewer	Fewer	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer	Similar
		Pot	tential to Meet Project (<u>Objectives</u>			
Potential to Meet Most Project Objectives?	<u>NO</u>	NO	YES	YES	YES	<u>YES</u>	YES

* S/U = Significant and Unavoidable Impact. LTS = Less than Significant Impact

1 - "Fewer" indicates that the alternative would create reduced or fewer impacts that the Project would create. "Similar" indicates that impacts would be similar to those of the proposed Project. "Greater" indicates that the alternative would result in a greater level of impact than would the Project.

2 - Agricultural resources impacts related to parcels under Williamson Act contracts, and Aesthetic operational impacts and cumulative impacts would be significant and unavoidable for all alternatives, except the No Project-Build_Alternative (A1), Offsite Alternative, and Distributed Commercial and Industrial Rooftop Solar Alternative. Cultural Resources/Tribal Cultural Resources cumulative impacts would be significant and unavoidable for all alternatives, except the No Build Alternative (A1) and Distributed Commercial and Industrial Rooftop Solar Alternative.

ES.7.3 Environmentally Superior Alternative

Section 15126.6 of the State CEQA Guidelines requires an EIR identify an "environmentally superior" alternative. If the "no project" alternative is the environmentally superior alternative, then the EIR must identify which of the other alternatives is environmentally superior.

Table 5-1 summarizes the comparison of impacts between the alternatives and the proposed Project to help determine the Environmentally Superior Alternative. As presented in the comparative analysis above, the Environmentally Superior Alternative evaluated in this EIR would be the No Project Alternative A1 (No Build Alternative). No substantially adverse and long-term impacts would occur to the environment under the No Project Alternative. The No Project Alternative would also avoid the impacts of the Project, as analyzed in Section 3. However, it would not meet any Project objectives.

The Further Reduced Footprint Alternative with Berms would achieve most of the Project objectives and would be feasible to construct. *In accordance with section 15126.6 of the State CEQA Guidelines, the Alternative C, the Further Reduced Footprint Alternative with Berms, would be the Environmentally Superior Alternative* since it would result in fewer impacts to aesthetics, fewer construction-related disturbance such as noise, and less ground disturbance than the proposed Project and would reduce the visual impacts of the Project on the Lake Tamarisk Desert Resort, although the visual impacts would remain significant and unavoidable and the impacts to viewers from SR-177 would be more severe.

While Alternative C is Environmentally Superior, it would result in a reduction of 80 to 110 MW of renewable energy compared to the proposed Project, which reduces its compliance with the most important project objectives (meeting State and federal renewable energy goals to counter climate change). Therefore, because Alternative B, the Reduced Footprint Alternative meets these critical project objectives and reduces impacts to the Lake Tamarisk community compared to the proposed Project, it is considered to be the next most Environmentally Superior Alternative and preferred overall.

Section 15126.6 of the State CEQA Guidelines requires an EIR identify an "environmentally superior" alternative. If the "no project" alternative is the environmentally superior alternative, then the EIR must identify which of the other alternatives is environmentally superior.

The Environmentally Superior Alternative would be the No Project Alternative (Alternative A1: No Build Alternative). No substantially adverse and long-term impacts would occur to the environment under the No Project Alternative. The No Project Alternative A1 would avoid the impacts of the Project analyzed in EIR Chapter 3, as well as the construction and operational impacts of Alternatives B, C, D, and E. However, it is possible that if the proposed Project were not approved, another solar project would be constructed, which would have impacts similar to the Project.

In accordance with section 15126.6 of the State CEQA Guidelines, *the Reduced Footprint Alternative would be the Environmentally Superior Alternative* since it would result in fewer impacts to Aesthetics and Noise and Vibration than the proposed Project and would reduce the visual impacts of the Project on the Lake Tamarisk Desert Resort, although the visual impacts would remain significant and unavoidable. The Reduced Footprint Alternative would have a slightly reduced level of ground disturbance and would be a greater distance from the residences in Lake Tamarisk, which would reduce construction-related disturbances such as noise.

The Reduced Footprint Alternative, like the proposed Project, would meet all of the Project objectives, would be feasible, would generate nearly the same amount of renewable energy and would have the same energy storage capacity. Because the Reduced Footprint Alternative would achieve most of the Project objectives and would have fewer impacts when compared to the proposed Project, the Reduced Footprint Alternative is considered environmentally preferred.

ES.7.4 Summary of Impacts and Mitigation Measures (includes Impact Summary Table)

Table ES-2 identifies the impact statements addressed for each resource topic and presents the conclusions regarding the significance of the impacts during both construction and O&M. Where mitigation measures apply, these are identified. In instances where the level of significance would vary (e.g., depending on location of a viewer of the Project) the worst case is used. The cause and nature of the impacts and the details on what is included in the mitigation measures are provided in the individual resource discussions in Chapter 3 of the EIR, organized by resource topic. Decommissioning activities and potential impacts would be similar to the activities and resulting potential impacts during construction.

Table ES-2 applies to the proposed Project and the Lake Tamarisk Alternative (Alternative 2)all action alternatives, including development of other renewable energy within the existing land designation. Potential impacts from the Project would be eliminated under the No Project Alternatives (A1: No Building and A2: Uses Allowed by Right) and no mitigation would be implemented.

In response to comments raised during the original Draft EIR comment period, the Applicant also commits to best management practices (BMPs) during site preparation and construction that are listed in Section 2.7.2. Additional BMPs identified in the Project's Fugitive Dust Control Plan (EIR Appendix U) would also be implemented during all grading and vegetation removal activities.

The Easley Project will fully comply with all applicable DRECP Conservation and Management Actions (CMAs) on BLM-administered land, and the Applicant has stated that the Easley Project will also voluntarily comply with all applicable DRECP CMAs on private lands. A detailed BLM Project consistency CMA analysis is provided in EIR Appendix CC.

Table ES-2. Summary of Impacts and Mitigation Measures

Aesthetics

Impact AES-1. In non-urbanized areas, would the Project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points). If the Project is in an urbanized area, would the Project conflict with applicable zoning and other regulations governing scenic quality?

5 5	5 ,	
 Construction 	and Decommissi	oning: Less than Significant with Mitigation
Mitigation	MM BIO-5	Vegetation Resources Management Plan
Measures	MM AQ-1	Fugitive Dust Control Plan
	MM AES-3	Night Lighting Management Plan
O&M: Signifi	cant and Unavoid	lable
Applicant	APM VIS-1	Weathering Coating of Security Fencing.
Proposed		
Measure		
Mitigation	MM AES-1	Surface Treatment of Project Structures and Buildings
Measures	MM AES-2	Project Design
•	<i>Nould the Project</i> ws in the area?	create a new source of substantial light or glare, which would adversely affect day
Construction	and Decommissi	oning: Less than Significant
O&M: Less the second	nan Significant wi	th Mitigation
Applicant Proposed	APM VIS-1	Weathering Coating of Security Fencing.

Mitigation	MM AES-1	Surface Treatment of Project Structures and Buildings	
Measures	MM AES-2	Project Design	
	MM AES-3	Night Lighting Management Plan	
Impact AES-3. Wou	uld the Project	result in the creation of an aesthetically offensive site open to public view?	
	iterion AES-1 <u>(</u>	the public are assessed from representative viewpoints and are discussed Construction and Decommissioning: Less than Significant with Mitigation; able).	
Impact AES-4. Wou	uld the Project	expose residential property to unacceptable light levels?	
The Project's nig	ght lighting effe	ects are discussed under Impact Criterion AES-4.	
	•	struction, operation, or decommissioning result in an inconsistency with regulatory nicable to the protection of aesthetics?	
Construction, O	&M, and Decor	nmissioning: Less than Significant with Mitigation	
Mitigation	MM AES-1	Surface Treatment of Project Structures and Buildings	
Measures	MM AES-3	Night Lighting Management Plan	
Cumulative Impact	ts		
Significance after Mitigation	Cumulatively Considerable (<i>Significant</i>) visual impacts when viewed by sensitive viewing popula tions along I-10 and SR-177, from nearby residences, from portions of JTNP, and in the surroun ding mountains and wilderness		
	ding mountai		
Applicant Proposed Measure	ding mountai APM VIS-1	Weathering Coating of Security Fencing.	
Proposed	~		
Proposed Measure	APM VIS-1	Weathering Coating of Security Fencing.	
Proposed Measure Mitigation	APM VIS-1 MM AES-1	Weathering Coating of Security Fencing. Surface Treatment of Project Structures and Buildings	

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Agriculture and Forestry

Impact AG-1. The Project would conflict with existing zoning for agricultural use, a Williamson Act contract, or land within an agricultural preserve.

Construction, O&M, and Decommissioning: Less than Significant and Unavoidable

MitigationNo feasible mitigation would reduce this impact to a less-than-significant level, however, can-Measurescellation of the Williamson Act contracts would avoid this impact.

Impact AG-2. The Project would cause development of non-agricultural uses within 300 feet of agriculturally zoned property (Ordinance No. 625, "Right-to-Farm").

Construction, O&M, and Decommissioning: Less than Significant

Impact AG-3. The Project would conflict with land within a Riverside County Agricultural Preserve

Construction, O&M, and Decommissioning: <u>Less than</u> Significant and Unavoidable

MitigationNo feasible mitigation would reduce this impact to a less-than-significant level, however,MeasuresCeancellation of the Williamson Act contracts would avoid this impact.

Cumulative Impacts

Significance after Not Cumulatively Considerable (Less than Significant) Mitigation

Air Quality

Impact AQ-1: Would the Project conflict with or obstruct implementation of the applicable air quality plan?

Construction, O&M, and Decommissioning: Less than Significant

Impact AQ-2: Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?

 Construction an 	d Decommissio	oning: Less than Significant with Mitigation		
Mitigation	MM AQ-1	Fugitive Dust Control Plan		
Measures	MM AQ-2	Control On-Site Off-Road Equipment Emissions		
O&M: Less than	Significant			
Impact AQ-3: Wou	ld the Project o	expose sensitive receptors to substantial pollutant concentrations?		
 Construction an 	d Decommissio	oning: Less than Significant with Mitigation		
Mitigation	MM AQ-1	Fugitive Dust Control Plan		
Measures	MM AQ-2	Control On-Site Off-Road Equipment Emissions		
O&M: Less than	Significant			
Impact AQ-4: Wou stantial number of	-	result in other emissions (such as those leading to odors) adversely affecting a sub		
Construction, O	&M, and Deco	mmissioning: Less than Significant		
Cumulative Impac	ts			
Significance after Mitigation	Not Cumulat	ively Considerable (Less than Significant)		
Mitigation	MM AQ-1	Fugitive Dust Control Plan		
Measures	MM AQ-2	Control On-Site Off-Road Equipment Emissions		
Biological Reso	urces			

Impact BIO-1: Would the Project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

 Construction 	, O&M, and Decom	missioning: Less than Significant with Mitigation
Mitigation	MM BIO-1	Biological Monitoring
Measures	MM BIO-2	Worker Environmental Awareness Training
	MM BIO-3	Minimization of Vegetation and Habitat Impacts
	MM BIO-4	Integrated Weed Management Plan
	MM BIO-5	Vegetation Resources Management Plan
	MM BIO-6	Wildlife Protection
	MM BIO-8	Bird and Bat Conservation Strategy (BBCS)
	MM BIO-9	Nesting Bird Management Plan
	<u>MM BIO-10</u>	_Gen-tie lines
	MM BIO-1 <u>1</u> 0	Burrowing Owl Avoidance and Relocation
	MM BIO-1 <u>2</u>	Desert Kit Fox and American Badger Relocation
	MM BIO-13	Wildlife Protection and Relocation Plan
	MM BIO-1 <u>4</u> 2	Streambed and Watershed Protection

Impact BIO-2: Would the Project have a substantial adverse effect, either directly or through habitat modifications, on any endangered, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12)?

Construction	 Construction, O&M, and Decommissioning: Less than Significant with Mitigation 			
Mitigation	MM BIO-1	Biological Monitoring		
Measures	MM BIO-2	Worker Environmental Awareness Training		
	MM BIO-3	Minimization of Vegetation and Habitat Impacts		
	MM BIO-4	Integrated Weed Management Plan		
	MM BIO-5	Vegetation Resources Management Plan		
	MM BIO-6	Wildlife Protection		
	MM BIO-7	Desert Tortoise Protection		

MM E	81O-8 B	ird and Bat Conservation Strategy (BBCS)
MM E	810-9 <u>N</u>	lesting Bird Management Plan
<u>MM E</u>	<u>810-10</u>	Gen-tie lines
MM E	3IO-13 V	Vildlife Protection and Relocation Plan

Impact BIO-3: Would the Project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites.

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 Construction 	, O&M, and Decom	missioning: Less than Significant with Mitigation
Mitigation	MM BIO-1	Biological Monitoring
Measures	MM BIO-2	Worker Environmental Awareness Training
	MM BIO-3	Minimization of Vegetation and Habitat Impacts
	MM BIO-4	Integrated Weed Management Plan
	MM BIO-5	Vegetation Resources Management Plan
	MM BIO-6	Wildlife Protection
	MM BIO-7	Desert Tortoise Protection
	MM BIO-8	Bird and Bat Conservation Strategy (BBCS)
	MM BIO-9	Nesting Bird Management Plan
	MM BIO-10	Gen-tie lines
	MM BIO-1 <u>1</u> 0	Burrowing Owl Avoidance and Relocation
	MM BIO-1 <u>2</u> 1	Desert Kit Fox and American Badger Relocation
	MM BIO-13	Wildlife Protection and Relocation Plan

Impact BIO-4: Would the Project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

 Construction, O&M, and Decommissioning: Less than Significant with Mitigation 			
Mitigation	MM BIO-1	MM BIO-1 Biological Monitoring	
Measures	MM BIO-2	Worker Environmental Awareness Training	
	MM BIO-3	Minimization of Vegetation and Habitat Impacts	
	MM BIO-4	Integrated Weed Management Plan	
	MM BIO-5	Vegetation Resources Management Plan	

Impact BIO-5: Would the Project have a substantial adverse effect on State or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

MM BIO-1	Biological Monitoring
AM BIO-2	Worker Environmental Awareness Training
VIM BIO-3	Minimization of Vegetation and Habitat Impacts
VIM BIO-4	Integrated Weed Management Plan
MM BIO-5	Vegetation Resources Management Plan
MM BIO-1 <u>4</u> 2	Streambed and Watershed Protection
/	IM BIO-4 IM BIO-5

Impact BIO-6: Would the Project conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

 Construction 	 Construction, O&M, and Decommissioning: Less than Significant with Mitigation 		
Mitigation	MM BIO-1	Biological Monitoring	
Measures	MM BIO-2	Worker Environmental Awareness Training	
	MM BIO-3	Minimization of Vegetation and Habitat Impacts	
	MM BIO-4	Integrated Weed Management Plan	
	MM BIO-5	Vegetation Resources Management Plan	
	MM BIO-6	Wildlife Protection	
	MM BIO-7	Desert Tortoise Protection	
	MM BIO-8	Bird and Bat Conservation Strategy (BBCS)	

	MM BIO-9	Nesting Bird Management Plan
	<u>MM BIO-10</u>	_Gen-tie lines
	MM BIO-1 <u>1</u> 0	Burrowing Owl Avoidance and Relocation
	MM BIO-1 <u>2</u> 1	Desert Kit Fox and American Badger Relocation
	<u>MM BIO-13</u>	Wildlife Protection and Relocation Plan
	MM BIO-1 <u>4</u> 2	Streambed and Watershed Protection
Cumulative Impact	ts	
Significance after Mitigation	Not Cumulativ	vely Considerable (Less than Significant)
Mitigation	MM BIO-1	Biological Monitoring
Measures	MM BIO-2	Worker Environmental Awareness Training
	MM BIO-3	Minimization of Vegetation and Habitat Impacts
	MM BIO-4	Integrated Weed Management Plan
	MM BIO-5	Vegetation Resources Management Plan
	MM BIO-6	Wildlife Protection
	MM BIO-7	Desert Tortoise Protection
	MM BIO-8	Bird and Bat Conservation Strategy (BBCS)
	MM BIO-9	Nesting Bird Management Plan
	MM BIO-10	_Gen-tie lines
	MM BIO-1 <u>1</u> 0	Burrowing Owl Avoidance and Relocation
	MM BIO-1 <u>2</u> 1	Desert Kit Fox and American Badger Relocation
	MM BIO-13	Wildlife Protection and Relocation Plan
	MM BIO-1 <u>42</u>	Streambed and Watershed Protection

Cultural Resources and Tribal Cultural Resources

MM CUL-6

Impact CUL-1: The Project would cause a substantial adverse change in the significance of a historical resource as defined in California Code of Regulations, Section 15064.5.

 Construction 	n, O&M, and Decon	nmissioning: Less than Significant with Mitigation
Mitigation	MM AES-1	Surface Treatment of Project Structures and Buildings.
Measures	MM AES-2	Project Design
-	•	ause a substantial adverse change in the significance of an archaeological resource Julations, Section 15064.5.
 Construction 	n, O&M, and Decon	nmissioning: Less than Significant with Mitigation
<u>Applicant-</u>	APM CULT-1	Native American Monitoring
Proposed		
<u>Measure</u>		
Mitigation	MM AES-1	Surface Treatment of Project Structures and Buildings.
Measures	MM AES-2	Project Design
	MM CUL-1	Project Archaeologist and Cultural Resource Monitoring Plan
	MM CUL-2	Develop and Implement Cultural Resources Environmental Awareness Training
	MM CUL-3	Archaeological Monitoring
	MM CUL-4	Unanticipated DiscoveryResources
	MM CUL-5	Treatment of Human Remains

Impact CUL-3: The Project would cause a substantial adverse change in the significance of a unique archaeological resource pursuant to California Code of Regulations, Section 15064.5.

Phase IV Monitoring Report

 Construction, O&M, and Decommissioning: Less than Significant with Mitigation 			
<u>Applicant-</u>	APM CULT-1	Native American Monitoring	
<u>Proposed</u>			
<u>Measure</u>			

Mitigation	MM CUL-1	Project Archaeologist and Cultural Resource Monitoring Plan
Measures	MM CUL-2	Develop and Implement Cultural Resources Environmental Awareness Training
	MM CUL-3	Archaeological Monitoring
	MM CUL-4	Unanticipated DiscoveryResources
	MM CUL-5	Treatment of Human Remains
	MM CUL-6	Phase IV Monitoring Report

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Impact CUL-4: The Project would disturb any human remains, including those interred outside of dedicated cemeteries.

 Construction, O&M, and Decommissioning: Less than Significant with Mitigation 			
Mitigation Measures	MM CUL-5	Treatment of Human Remains	
Impact TCR-1: by the Lead Age	,	cause adverse change in the significance of a Tribal Cultural Resource determined	
Construction, O&M, and Decommissioning: Less than Significant with Mitigation			

<u>Applicant-</u>	APM CULT-1	Native American Monitoring
<u>Proposed</u>		
<u>Measure</u>		
Mitigation	MM CUL-1	Project Archaeologist and Cultural Resource Monitoring Plan
Measures	MM CUL-2	Develop and Implement Cultural Resources Environmental Awareness Training
	MM CUL-3	Archaeological Monitoring
	MM CUL-4	Unanticipated DiscoveryResources
	MM CUL-5	Treatment of Human Remains
	MM CUL-6	Phase IV Monitoring Report
	MM TCR-1	Native American Monitor
	MM TCR-2	Artifact Disposition

Impact TCR-2: The Project would cause adverse change in the significance of a Tribal Cultural Resource eligible for or listed on the CRHR or in a local register of historical resources as defined in Public Resources Code section 5020.1 (k).

 Construction, O 	&M, and Decom	nmissioning: Less than Significant with Mitigation	
Applicant-	APM CULT-1	Native American Monitoring	
<u>Proposed</u>			
<u>Measure</u>			
Mitigation	MM CUL-1	Project Archaeologist and Cultural Resource Monitoring Plan	
Measures	MM CUL-2	Develop and Implement Cultural Resources Environmental Awareness Training	
	MM CUL-3	Archaeological Monitoring	
	MM CUL-4	Unanticipated DiscoveryResources	
	MM CUL-5	Treatment of Human Remains	
	MM CUL-6	Phase IV Monitoring Report	
	MM TCR-1	Native American Monitor	
	MM TCR-2	Artifact Disposition	
Cumulative Impac	ts		
Significance after	Cumulative visual impacts to the Prehistoric Trails Network Cultural Landscape (PTNCL)		
Mitigation	would be significant and unavoidable, and the Project's incremental contribution to those		
	visual impacts would be cumulatively considerable. All other cumulative cultural and tribal		
	cultural resource impacts would be less than significant, and the Project's incremental		
	contribution would not be cumulatively considerable.Not Cumulatively Considerable (Less		
	than Significar	nt)	
Applicant-	APM CULT-1	Native American Monitoring	
<u>Proposed</u>			
<u>Measure</u>			

Mitigation	MM AES-1	Surface Treatment of Project Structures and Buildings.
Measures	MM AES-2	Project Design
	MM CUL-1	Project Archaeologist and Cultural Resource Monitoring Plan
	MM CUL-2	Develop and Implement Cultural Resources Environmental Awareness Training
	MM CUL-3	Archaeological Monitoring
	MM CUL-4	Unanticipated DiscoveryResources
	MM CUL-5	Treatment of Human Remains
	MM CUL-6	Phase IV Monitoring Report
	MM TCR-1	Native American Monitor
	MM TCR-2	Artifact Disposition

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Energy

Impact E-1. Would the Project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during Project construction or operation?

Construction, O&M, and Decommissioning: Less than Significant

Impact E-2. Would the Project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Construction, O&M, and Decommissioning: No impact

Cumulative Impacts

Significance Beneficial (no mitigation required)

Geology, Soils and Mineral Resources

Impact GEO-1. The Project would directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death, involving strong seismic ground shaking.

Construction, O&M, and Decommissioning: Less than Significant

Impact GEO-2. The Project would directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death, involving seismic-related ground failure, including liquefaction.

Construction, O&M, and Decommissioning: Less than Significant

Impact GEO-3. Would the Project result in substantial soil erosion or the loss of topsoil?

Construction, O&M, and Decommissioning: Less than Significant with Mitigation

	- Construction, Own, and Decommissioning. Less than significant with Mitigation				
Mitigation	MM AQ-1	Fugitive Dust Control Plan			
Measures	MM BIO-1	Biological Monitoring			
	MM BIO-3	Minimization of Vegetation and Habitat Impacts			
	MM BIO-5	Vegetation Resources Management Plan			
	MM HWQ-1	Drainage Erosion and Sedimentation Control Plan			
	MM HWQ-5	Project Drainage Plan			

Impact GEO-4. Would the Project be located on geologic units or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?

Construction, O&M, and Decommissioning: Less than Significant

Impact GEO-5. Would the Project be located on expansive soil, as defined in Table 18-1 B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Construction, O&M, and Decommissioning: Less than Significant

Impact GEO-6. Would the Project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

Construction, O&M, and Decommissioning: Less than Significant

Impact MR-1. Would the Project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

Construction, O&M, and Decommissioning: Less than Significant

Cumulative Impacts		
Significance after Mitigation	Not Cumulatively Considerable (Less than Significant)	
Mitigation	MM AQ-1	Fugitive Dust Control Plan
Measures	MM BIO-1	Biological Monitoring
	MM BIO-3	Minimization of Vegetation and Habitat Impacts
	MM BIO-5	Vegetation Resources Management Plan.
	MM HWQ-1	Drainage Erosion and Sedimentation Control Plan
	MM HWQ-5	Project Drainage Plan

Greenhouse Gas Emissions

Impact GHG-1: Would the Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Construction, O&M, and Decommissioning: Less than Significant

Impact GHG-2: Would the Project conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?

Construction, O&M, and Decommissioning: Less than Significant

Cumulative Impacts

Significance Not Cumulatively Considerable (Less than Significant)

Hazards and Hazardous Materials

Impact HAZ-1. Would the Project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

transport, use,	or disposal of haze	ardous materials?
 Construction 	n and Decommissio	oning: Less than Significant with Mitigation
O&M: Less t	han Significant	
Mitigation Measures	MM HAZ-1	UXO Identification, Training, and Reporting Plan
•	•	t create a significant hazard to the public or the environment through reasonably onditions involving the release of hazardous materials into the environment?
Construction	n, O&M, and Deco	mmissioning: Less than Significant with Mitigation

Mitigation	MM AQ-1	Fugitive Dust Control Plan
Measures	MM HAZ-2	Worker Environmental Awareness Program
	MM FIRE-1	Fire Safety

Impact HAZ-3. Would the Project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

 Construction 	n and Decommission	oning: Less than Significant with Mitigation	
O&M: No Im	ipact		
Mitigation	MM HAZ-1	UXO Identification, Training, and Reporting Plan	
Measures	MM HAZ-2	Worker Environmental Awareness Program	
	MM HAZ-3	Soil Management Plan	
5		Worker Environmental Awareness Program	

Impact HAZ-4. Would the Project be located within 2 miles of a public use airport and result in a safety hazard or excessive noise for people residing or working in the Project area?

Construction, O&M, and Decommissioning: Less than Significant

Impact HAZ-5. Would the Project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Construction, O&M, and Decommissioning: Less than Significant

Impact HAZ-6. Would the Project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

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Mitigation	MM FIRE-1	Fire Safety	
Measures			
Cumulative Impac	ts		
Significance after Mitigation	Not Cumulat	ively Considerable (Less than Significant)	
Mitigation	MM AQ-1	Fugitive Dust Control Plan	
Measures	MM FIRE-1	Fire Safety	
	MM HAZ-1	UXO Identification, Training, and Reporting Plan	
	MM HAZ-2	Worker Environmental Awareness Program	
	MM HAZ-3	Soil Management Plan	

Hydrology and Water Quality

Impact HWQ-1. Would the Project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? Would the Project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

 Construction 	 Construction, O&M, and Decommissioning: Less than Significant with Mitigation 		
Mitigation	MM BIO-3	Minimization of Vegetation and Habitat Impacts	
Measures	MM BIO-5	Vegetation Resources Management Plan	
	MM BIO-13	Streambed and Watershed Protection	
	MM HWQ-1	Drainage Erosion and Sedimentation Control Plan	
	MM HWQ-2	Septic System Review and Permitting	
	MM HWQ-3	Palo Verde Mesa Groundwater Basin (PVMGB) Protection	
	MM HWQ-4	Groundwater Monitoring, Reporting, and Mitigation Plan (GMRMP)	
	MM HWQ-5	Project Drainage Plan	

Impact HWQ-2. Would the Project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin?

Construction, C	D&M, and Decon	nmissioning: Less than Significant with Mitigation
Mitigation	MM HWQ-3	Palo Verde Mesa Groundwater Basin (PVMGB) Protection
Measures	<u>MM HWQ-4</u>	Groundwater Monitoring, Reporting, and Mitigation Plan (GMRMP)

Impact HWQ-3. Would the Project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

Impact HWQ-3a. Result in substantial erosion or siltation on or off site?

Construction, O&M, and Decommissioning: Less than Significant with Mitigation

Impact HWQ-3b. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or off site?

Construction, O&M, and Decommissioning: Less than Significant with Mitigation

Impact HWQ-3c. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Construction, O&M, and Decommissioning: Less than Significant with Mitigation

Impact HWQ-3d. Impede or redirect flood flows?

 Construction 	Construction, O&M, and Decommissioning: Less than Significant with Mitigation		
Mitigation	MM BIO-3	Minimization of Vegetation and Habitat Impacts	
Measures	MM BIO-5	Vegetation Resources Management Plan	
	MM BIO-13	Streambed and Watershed Protection	

	MM HWQ-1	Drainage Erosion and Sedimentation Control Plan
	MM HWQ-5	Project Drainage Plan
-	-	t expose people or structures to a significant risk of loss, injury or death involving esult of the failure of a levee or dam?
 Construction, O 	&M, and Decon	nmissioning: Less than Significant with Mitigation
Mitigation	MM HWQ-1	Drainage Erosion and Sedimentation Control Plan
Measures	MM HWQ-5	Project Drainage Plan
	MM HWQ-6	Flood Protection
Cumulative Impac	ts	
Significance after Mitigation	Not Cumulati	vely Considerable (Less than Significant)
Mitigation	MM BIO-3	Minimization of Vegetation and Habitat Impacts
Measures	MM BIO-5	Vegetation Resources Management Plan
	MM BIO-13	Streambed and Watershed Protection
	MM HWQ-1	Drainage Erosion and Sedimentation Control Plan
	MM HWQ-2	Septic System Review and Permitting
	MM HWQ-3	Palo Verde Mesa Groundwater Basin (PVMGB) Protection
	MM HWQ-4	Groundwater Monitoring, Reporting, and Mitigation Plan (GMRMP)
	MM HWQ-5	Project Drainage Plan
	<u>MM HWQ-6</u>	Flood Protection

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Land Use and Planning

Impact LU-1. Would the Project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Construction, O&M, and Decommissioning: Less than Significant (no conflict)

Cumulative Impacts

Significance after	Not Cumulatively Considerable (Less than Significant)
Mitigation	No mitigation required.

Noise

Impact N-1. Would the Project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Construction: Le	ess than Significa	ant with Mitigation
	0	ss than Significant
Applicant Pro- posed Measure	-	Construction Timing
Mitigation	MM N-1	Construction Restrictions
Measures	MM N-2	Public Notification Process
	MM N-3	Noise Complaint Process
Impact N-2. Would	d the Project resi	ult in generation of excessive groundborne vibration or groundborne noise levels
Construction, O	&M, and Decom	missioning: Less than Significant
Cumulative Impac	ts	
Significance after Mitigation	Not Cumulativ	rely Considerable (Less than Significant)
Applicant Pro- posed Measure	APM NOISE-1	Construction Timing

Mitigation	MM N-1	Construction Restrictions
Measures	MM N-2	Public Notification Process
	MM N-3	Noise Complaint Process

Paleontological Resources

Impact PR-1. Would the Project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Construction, O	&M, and Decc	ommissioning: Less than Significant with Mitigation
Mitigation	MM PR-1	Paleontological Resource Monitoring and Mitigation Plan (PRMP)
Measures	MM PR-2	Worker Environmental Awareness Program (WEAP)
	MM PR-3	Paleontological Monitoring and Fossil Recovery
	MM PR-4	Paleontological Resources Monitoring Report
Cumulative Impac	ts	
Significance after Mitigation	Not Cumula	tively Considerable (Less than Significant with Mitigation)
Mitigation	MM PR-1	Paleontological Resource Monitoring and Mitigation Plan (PRMP)
Measures	MM PR-2	Worker Environmental Awareness Program (WEAP)
	MM PR-3	Paleontological Monitoring and Fossil Recovery
	MM PR-4	Paleontological Resources Monitoring Report

Population and Housing

Impact PH-1. Would the Project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

Construction, O&M, and Decommissioning: Less than Significant

Cumulative Impacts

Significance Not Cumulatively Considerable (Less than Significant); No mitigation required.

Public Services and Utilities

Impact PSU-1. Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:

Fire protection?

Construction, O&M, and Decommissioning: Less than Significant

Police protection?

Construction, O&M, and Decommissioning: Less than Significant

Schools?

Construction, O&M, and Decommissioning: Less than Significant

Parks?

Construction, O&M, and Decommissioning: Less than Significant

Other public facilities (health services, libraries)?

Construction, O&M, and Decommissioning: Less than Significant

Impact PSU-2. Would the Project require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

Construction, O&M, and Decommissioning: Less than Significant

Impact PSU-3. Would the Project have sufficient water supplies available to serve the Project and reasonably fore-seeable future development during normal, dry and multiple dry years?

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Construction, O&M, and Decommissioning: Less than Significant

Impact PSU-4. Would the Project generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Construction, O&M, and Decommissioning: Less than Significant

Cumulative Impacts

Significance afterNot Cumulatively Considerable (Less than Significant)MitigationNo mitigation required

Recreation

Impact REC-1. Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated.

Construction, O&M, and Decommissioning: Less than Significant

Cumulative Impacts

Significance after Not Cumulatively Considerable (Less than Significant) Mitigation

Traffic and Transportation

Impact TRA-1. Would the Project conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Construction, O&M, and Decommissioning: Less than Significant with Mitigation

Mitigation MM TRA-1 Construction Traffic Control Plan

Measures

Impact TRA-2. Would the Project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b) [Criteria for Analyzing Transportation Impacts]?

Construction, O&M, and Decommissioning: Less than Significant with Mitigation

Mitigation MM TRA-1 Construction Traffic Control Plan Measures

Impact TRA-3. Would the Project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

 Construction, O 	&M, and Decor	nmissioning: Less than Significant with Mitigation
Mitigation	MM TRA-1	Construction Traffic Control Plan
Measures	MM TRA-2	Repair Roadways and Transportation Facilities Damaged by Construction Activities
Impact TRA-4. Wo	uld the Project	result in inadequate emergency access or access to nearby properties?
 Construction, O 	&M, and Decor	nmissioning: Less than Significant with Mitigation
Mitigation	MM TRA-1	Construction Traffic Control Plan
Measures		
Cumulative Impac	ts	
Significance after Mitigation	No Cumulativ	vely Considerable (Less than Significant)
Mitigation	MM TRA-1	Construction Traffic Control Plan
Measures	MM TRA-2	Repair Roadways and Transportation Facilities Damaged by Construction Activities

Wildfire

Impact FIRE-1. Would the Project substantially impair an adopted emergency response plan or emergency evacuation plan?

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Construction: Less that	n Significant with Mitigation
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O&M and Decommissioning: Less than Significant

Mitigation MM TRA-1 Construction Traffic Control Plan Measures

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Impact FIRE-2. Would the Project expose occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

Construction, O&M, and Decommissioning: Less than Significant with Mitigation

Mitigation MM FIRE-1 Fire Safety

Measures

Impact FIRE-3. Would the Project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk?

Construction, O&M, and Decommissioning: Less than Significant

• O&M: Less than Significant with Mitigation

Mitigation MM FIRE-1 Fire Safety

Measures

Impact FIRE-4. Would the Project expose people or structures to risks of loss, injury, or death involving wildfires?

Construction and O&M: Less than Significant with Mitigation

Decommissioning: Less than Significant

Mitigation MM FIRE-1 Fire Safety Measures

Cumulative Impacts

Significance after Not Cumulatively Considerable (Less than Significant) Mitigation

1. INTRODUCTION

1.1. Overview

In compliance with the California Environmental Quality Act (CEQA), the County of Riverside (County) is the Lead Agency responsible for preparation of this <u>Draft-Final</u> Environmental Impact Report (EIR) for the Easley Renewable Energy Project (Easley or Project). As the CEQA Lead Agency, the County is responsible for coordinating with the Project applicant, IP Easley I, LLC, IP Easley II, LLC, and IP Easley III, LLC (Applicant or Proponent), the public, and responsible agencies during the CEQA process. This EIR will inform the public and decision-makers at local and State permitting agencies of potentially significant environmental impacts associated with the Project and identify means of reducing or eliminating those impacts. The information contained within this EIR will be considered by applicable decision-makers in determining whether to grant the necessary Project approvals.

The Applicant is proposing the Project to generate up to 400 megawatts (MW) and store up to 650 MW of electricity from solar photovoltaic (PV) panels on approximately 3,735 acres in Riverside County, California, plus approximately 139 acres for a 6.7-mile 500 kV generation-tie line. The Project's solar and <u>BESS facility</u> consists of 24 parcels on private land (~990 acres), and 13 parcels on public lands administered by the U.S. Bureau of Land Management (BLM) (~2,745 acres).

The Applicant would site the solar facility, battery energy storage system, onsite substation, and a short portion of a 500 kilovolt (kV) generation intertie (gen-tie) line within the County of Riverside's jurisdiction, requiring a Conditional Use Permit (CUP 220021), Public Use Permit (PUP 230002), Variance (VAR 230003), and Development Agreement (DA 2200016) for construction, operation, and decommissioning.

There are 8 parcels on the Project site enrolled in contracts under the California Land Conservation Act of 1965 (referred to as the Williamson Act). Nonrenewal applications were filed in September 2022 and cancellation applications were filed in May and July 2023. On October 5, 2023, the Comprehensive Agricultural Preserve Technical Advisory Committee evaluated the petitions and recommended that the Board approve the cancellation and diminishment requests. Prior to CUP approval, the Riverside County Board of Supervisor would need to approve tentative cancellation of these Williamson Act contracts would need to be cancelled per supported by statutory findings made by the Riverside County Board of Supervisors along with a decision on agricultural preserve diminishment, or it the Board must be instead determined that the Project is compatible under Riverside County Ordinance 509. Final cancellation would occur prior to issuance of grading and construction permits.

In addition to CUP 220021, PUP 230002, VAR 230003, and DA 2200016, the Applicant is seeking ministerial approval by Riverside County to vacate the facility's interior roadways and merge contiguous Project parcels within the Project area into a contiguous area. Roads along the Project perimeter on the solar facility lands would remain dedicated public access. Ancillary permits, including encroachment permits, grading and construction permits, and certificates of occupancy, are anticipated from the County. These permits and approvals are local ministerial actions that will follow CEQA compliance and CUP and DA approval.

If approved, the Project would interconnect to the electrical grid at Southern California Edison's (SCE) Red Bluff Substation. Approximately 6.5 miles of the Project's 6.7-mile gen-tie line leading to Red Bluff Substation would traverse federal lands managed by the BLM and require a Right-of-Way (ROW) Grant. The gen-tie line would start at the onsite substation, expected to be located on private property (APN 808-023-018). Just south of the substation, the 500 kV gen-tie line would enter the Oberon Renewable Energy Project site and would traverse BLM-administered land for the remainder of the route to interconnect into an existing substation on the Oberon site, an adjacent solar and energy storage facility owned by Intersect Power. From the Oberon onsite substation, the power generated by the Easley Project would be transmitted to the SCE Red Bluff Substation via the existing Oberon 500 kV gen-tie line. Public lands within the Project solar application area are lands designated as Development Focus Area (DFA) by the Desert Renewable Energy Conservation Plan (DRECP) and associated Record of Decision (ROD), and thus, have been targeted for renewable energy development. Because the proposed Project is partially located on federal land under management of the U.S. Bureau of Land Management (BLM), the BLM is the lead agency under the National Environmental Policy Act (NEPA), 42 U.S.C. section 4321 et seq. As explained below, although this EIR will consider the environmental impacts of the Project as a whole, including components outside State and local agency jurisdiction, the BLM will prepare and rely on its own environmental review document in accordance with NEPA. As part of the NEPA process, the BLM requires a Plan of Development (POD) and associated technical appendices to specify the terms under which a right-of-way across federal lands is to be granted for the Oberon-Easley Renewable Energy Project (IP Easley, 2023).

In March 2024, tThe Applicant has also applied for certificationProject was certified by the-Governor <u>Newsom</u> as an Environmental Leadership Development Project (ELDP) <u>under Senate Bill (SB) 7</u>, and thus, is eligible for a streamlined judicial review as authorized under Public Resources Code section 21178 et seq. Therefore, the Office of Planning and Research (OPR) is reviewing the Project under the ELDP criteria set forth in Senate Bill (SB) 7. The Jobs and Economic Improvement Through Environmental Leadership Act of 2021 provides a streamlined CEQA judicial review process for construction projects that qualify as ELDPs. Among other requirements, ELDPs must make substantial financial investments within California, create high-wage and highly skilled jobs, and not result in any net additional greenhouse gas emissions.

1.2. California Environmental Quality Act

Under CEQA, as amended (Public Resources Code Section 21080(a)), an environmental review document must be prepared, reviewed, and certified by the decision-making body before action is taken on any non-exempt discretionary project proposed to be carried out or approved by a State or local public agency in the State of California. Following CEQA review, the County, as the lead agency, has the authority to act first on the Project before any of the responsible agencies take action on the Project (see Section 1.9, Anticipated Permits and Approvals). Riverside County decision makers (Board of Supervisors) will use the EIR for decision-making regarding the proposed Project. If the proposed Project is approved by all required permitting agencies, the County would be responsible for reviewing and approving all CEQA-related preconstruction compliance plans and ensuring that the proposed Project modifications and operations are conducted in accordance with the mitigation measures and other permit conditions.

1.2.1. Purpose of the EIR

This EIR is an informational disclosure document for the County, responsible agencies, and other interested parties. According to Section 15121(a) of the State CEQA Guidelines:

"[An EIR] will inform public agency decision-makers and the public generally of the significant environmental effect of a project, identify possible ways to minimize the significant effects, and describe reasonable alternatives to the project. The public agency shall consider the information in the EIR along with other information which may be presented to the agency."

Section 15151 of the State CEQA Guidelines provides the following standards for EIR adequacy:

"An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among the experts. The courts have looked not for perfection; but for adequacy, completeness, and a good faith effort at full disclosure."

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This-The Draft EIR and Partially Recirculated Draft EIR has have been distributed for review to responsible agencies, trustee agencies with resources affected by the Project, and other interested agencies and individuals. The County will consider the Draft EIR and Partially Recirculated Draft EIR, comments received on the Draft EIR and Partially Recirculated Draft EIR, responses to those comments, and any changes to the Draft EIR and Partially Recirculated Draft EIR, before deciding whether to certify the this Final EIR as complying with CEQA and taking action on the proposed Project. The County will consider whether to approve the CUP 220021 and PUP 230002 for the construction, operation, maintenance, and decommissioning of the proposed Project on lands subject to County jurisdiction.

Comments on this-the original Draft EIR and Partially Recirculated Draft EIR should were directed to focus on the adequacy of the document in identifying and analyzing the potential environmental effects, determination of significance, and effectiveness of mitigation measures.

<u>EIR revisions in this Final EIR are noted with</u> strikeout for deletions of text and in underline for new text in sections of the original Draft EIR, and as double strikeout and double underline indicating revisions made to the Partially Recirculated Draft EIR.

1.2.2. Purpose of the Recirculated Draft EIR

The Partially Recirculated Draft EIR was prepared in accordance with Section 15088.5 of the CEQA Guidelines. The County determined that new or clarified information required recirculation of certain chapters of the Original Draft EIR. CEQA requires recirculation of an EIR when the lead agency adds "significant new information" to an EIR regarding changes to the project description or the environmental setting after public notice is given of the availability of a draft EIR for public review (State CEQA Guidelines Section 15087) but before EIR certification (State CEQA Guidelines Section 15088.5[a]). Recirculation is not required unless the EIR is changed in a way that would deprive the public of the opportunity to comment on significant new information, including a new significant impact for which no feasible mitigation is available to fully mitigate the impact (thus resulting in a significant and unavoidable impact), a substantial increase in the severity of a disclosed environmental impact, or development of a new feasible alternative or mitigation measures that would clearly lessen environmental impacts but that the project proponent declines to adopt (State CEQA Guidelines Section 15088.5[a]). Recirculation is not required when the new information added to the EIR merely clarifies or amplifies or makes insignificant modifications in an adequate EIR (State CEQA Guidelines Section 15088.5[b]).

1.3. Project Objectives

The Applicant's purpose for the Project is to generate, store, and transmit renewable energy to the statewide wholesale electricity grid. The Applicant's identified Project objectives, which have been considered by the County in developing a reasonable range of alternatives, are:

- Support climate and clean energy goals of the Inflation Reduction Act of 2022 by helping to tackle the climate crisis and work towards achievement of President Biden's goal of a zero-carbon power sector by 2035 and zero-carbon economy by 2050 through development of clean electricity (power sector);
- Assist the nation to meet its Nationally Determined Contribution commitments under Article 4 of the Paris Climate Agreement to achieve a 50 to 52 percent reduction in U.S. greenhouse gas pollution from 2005 levels by 2030, and to achieve 100 percent carbon pollution-free electricity by 2035 in the electricity sector;

• Further the purpose of Secretarial Order 3285A1, establishing the development of environmentally responsible renewable energy as a priority for the Department of the Interior;

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- Deliver up to 400 MW of affordable, wholesale renewable energy to California ratepayers under longterm contracts with electricity service providers;
- Assist with achieving California's renewable energy generation goals under the Clean Energy and Pollution Reduction Act of 2015 (Senate Bill 350) and the 100 Percent Clean Energy Act of 2018 (Senate Bill 100), as well as greenhouse gas (GHG) emissions reduction goals of the California Global Warming Solutions Act of 2006 (AB 32), as amended by Senate Bill 32 in 2016;
- Enhance California's fossil-free resource adequacy capabilities and help to solve California's "duck curve" power production problem by installing up to 650 MW of 2-hour and/or 4-hour battery energy storage capacity²;
- Minimize environmental impacts and land disturbance associated with <u>solar</u><u>renewable</u><u>energy</u> development by siting the facility on relatively flat, contiguous lands with high solar insolation, in close proximity to established utility corridors, existing transmission lines with available capacity to facilitate interconnection, and road access;
- Conform with the Desert Renewable Energy Conservation Plan, including Conservation Management Actions;
- Bring living-wage jobs to Riverside County;
- Bring sales tax revenues to Riverside County by establishing a point of sale in the County for the procurement of most major project services and equipment.
- Make the highest and best use of primarily disturbed, retired agricultural land in and around a federal "Solar Energy Zone" and "Development Focus Area" to generate, store, and transmit affordable, wholesale solar electricity.
- Develop a commercially financeable renewable energy project.

1.4. Financial and Technical Capability of the Applicant

IP Easley I, LLC, IP Easley II, LLC, and IP Easley III, LLC are is a subsidiar iesy of Intersect Power, LLC. Founded in 2016, Intersect Power is a fully integrated clean infrastructure platform that develops and owns some of the world's largest renewable energy resources across multiple technologies and power markets. Intersect provides low-carbon electricity, fuels, and related products to customers across North America, enabling new pathways between clean electricity and the broader economy.

Intersect has a portfolio of 2.2-gigawatt peak (GWp) of solar PV + 1.4 GWh of battery storage, all of which will be under construction by Q2 2022 and operational by reached commercial operation in 2023. Intersect also has an emerging pipeline of 8.5 GWp + of renewable generation, 8 GWh+ of energy storage and 600 MW+ of green hydrogen production.

The Intersect team has shared experience in delivering over 6 GWp across more than 70 high-quality projects over the past decade. In the past ~2 years, Intersect has closed over \$5B in project financings and raised more than \$1B in corporate equity, which includes backing from TPG Rise Climate, Climate Adaptive Infrastructure, and Trilantic North America. In early 2023, Intersect secured up to \$800 million in corporate debt from a consortium of global project finance and corporate investment bank lenders to support its development pipeline and expansion of its clean energy platform. In the past ~2.5 years, Intersect has closed over \$5B in project financings and raised more than \$1.1B in corporate equity, which

² Battery duration may be up to 8 hours depending on technology and final design.

includes backing from TPG Rise Climate, Climate Adaptive Infrastructure, and Greenbelt Capital Partners (formerly, Trilantic North America). In 2023, Intersect secured \$800 million in corporate debt from a consortium of global project finance and corporate investment bank lenders to support its development pipeline and expansion of its clean energy platform, including the Easley Renewable Energy Project.

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Prior to forming Intersect, the Company's core team was critical in developing and building the Recurrent Energy platform. The team's functional expertise spans all relevant disciplines including site acquisition, permitting, interconnection, origination, engineering, procurement, construction, and finance. Intersect Power's team includes real estate, entitlement, and CEQA and NEPA expertise for energy infrastructure projects sited on both private and federal land in California.

The Intersect Power team has successfully developed four solar PV plus battery storage projects on a combination of private and public, BLM-managed lands in Riverside County, California, including the Athos I, Athos II, Blythe Mesa Solar II, and Oberon Renewable Energy Projects.

1.5. Summary of the Project Evaluated in this EIR

The County of Riverside is the Lead Agency for the proposed Project, under whose authority this EIR has been prepared. For purposes of this EIR, the term "Project" refers to the discretionary actions required to implement CUP 220021, and PUP 230002, and VAR 230003, as proposed, along with all of the activities associated with its implementation including planning, construction, and long-term operation. In summary, the Project, as evaluated throughout this EIR considers the impacts that would occur as a result of developing the Project site in accordance with the land uses that will be specified in the Contiguous Parcel Mergers. Specifically, IP Easley LLCthe Applicant is requesting the following governmental approvals from the County of Riverside to implement the Project (refer to Section 2, Description of the Proposed Project and Alternatives, for a complete description of the Project's construction and operational characteristics):

- Conditional Use Permit (CUP 220021) is proposed for the construction, operation, and decommissioning of the proposed solar facility, electrical storage equipment, <u>appurtement facilities</u>, and portions of the gen-tie line within the County of Riverside's jurisdiction.
- Development Agreement (DA 2200016) would be signed between the Applicant and Riverside County in accordance with Board of Supervisors' Policy B-29 (discussed below) to compensate the County for the use of its real property.
- Public Use Permit (PUP 230002) would be required for crossings of roadways under County jurisdiction, including medium voltage collector line crossings of Investor Road, Bellsby <u>Avenue Road</u>, and Jojoba Street, and the 500 kV gen-tie line crossing of Orion Road.
- Variance (VAR 230003) will be necessary for all structures located within the Natural Assets (N-A) zone that would be higher than 20 feet and in the Light Agriculture (A-1) and Controlled Development Area (W-2) zones that would exceed 105 feet.
- Contiguous Parcel Mergers and Road Vacations. The Applicant is planning to merge contiguous Project parcels within the Project area into a contiguous area. <u>The consolidation will include the request to vacate public easements and rights-of-ways, including a paper road vacation of Chuckwalla Road, and a request for a 30-foot public road easement on south of Belsby Avenue.</u> Roads along the Project perimeter on the solar facility lands would remain dedicated public access.
- Cancellation of a Williamson Act Contract. Williamson Act contracts would need to be cancelled, for 8 parcels that would be included as part of the Project.

Provided below is a list of known discretionary and ministerial actions needed by Riverside County to implement the proposed Project. This EIR covers all federal, state, and local government approvals which may be needed to construct or implement the Project, whether explicitly noted below or not.

Riverside County Board of Supervisors

1. Approval by resolution of agricultural <u>preserve</u> diminishment for parcels under Williamson Act contract

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- 2. Approval by resolution of CUP 220021
- 3. Approval by resolution of PUP 230002
- 4. Approval of VAR 230003
- 5. Enter into a Development Agreement with IP Easley, LLC, the Applicant per Board of Supervisors Policy B-29 (discussed below)
- 6. Certify this EIR and make appropriate CEQA Findings

Subsequent Project Approvals

Following cancellation of Williamson Act contracts and approval of Conditional Use Permit and Public Use Permit by the County of Riverside, approving development of specific uses conditionally permitted by the approved zoning, sSubsequent approvals associated with the proposed Project and covered by this EIR may include, but are not limited to, the following. A table of required permits is also included in Table 1-1 in Section 1.9 (Anticipated Permits and Approvals).

- 1. Cancellation of Williamson Act contracts by the County of Riverside.
- 2. Conditional Use Permit and Public Use Permit by the County of Riverside, approving development of specific uses conditionally permitted by the approved zoning.
- 1. Implementation of the contiguous parcel mergers.
- 2. Grading permits, road improvements, and drainage improvements (included in the Construction Permit) by the County of Riverside and Riverside County Flood Control and Water Conservation District to allow implementation of the Project.
- 3. Grant of Right-of-Way and Temporary Use Permit by the U.S. Bureau of Land Management for the construction and operation of the solar and energy storage facility, gen-tie line, and associated facilities on BLM-administered land.
- 4. Encroachment permits by the County to allow access within County rights-of-way, for utility trenching within a public right-of-way, as well as an encroachment permit by the California Department of Transportation for installation of ingress egress lane(s) and construction of the gen-tie line.
- 5. Lake and Streambed Alteration Agreement and Incidental Take Permit by California Department of Fish and Wildlife and Waste Discharge Requirement permit from the Colorado River Basin Regional Water Quality Control Board.

Board of Supervisors Policy B-29. The proposed Project is subject to Policy B-29, and the developer would need to enter into a development agreement with the County. The purpose of Policy B-29 is to ensure that the County does not disproportionately bear the burden of solar energy production and ensure the County is compensated in an amount it deems appropriate for the use of its real property. The policy states that the solar power plant owner shall annually pay the County \$150 for each acre of land involved in the power production process with an annual 2% escalation since the policy was implemented in 2013. It also lists requirements for solar power plant owners relating to sales and use taxes payable in connection with the construction of a solar power plant. Once the development agreement is enacted, the proposed Project would comply with this policy.

1.6. Public Review and Noticing

CEQA requires lead agencies to solicit, record, and evaluate feedback from other agencies, the public, and other interested parties on the environmental effects of a project to aid decision-making. Additionally, CEQA can, in certain circumstances, require that projects be monitored after they have been permitted to ensure that mitigation measures are implemented.

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Public and agency participation in the CEQA process for the proposed Project has and will continue to occur through the steps described below.

1.6.1. Notice of Preparation

In compliance with State CEQA Guidelines Section 15082, a Notice of Preparation (NOP) was issued on November 14, 2022. The notice briefly described the proposed Project, Project location, environmental review process, potential environmental effects, and opportunities for public involvement. A map was included that illustrated the Study Area boundary.

The NOP was submitted electronically to the Office of Planning and Research (State Clearinghouse) for issuance to State agencies. The NOP was filed with the Riverside County Clerk on November 14, 2022. It was mailed to agencies, organizations, local governments, elected officials, Native American Tribes, all residents within 300 feet of the Project boundaries and individuals on the County's interested parties list. A newspaper ad was also published in the Desert Sun and Press-Enterprise newspapers, and the NOP was mailed to the Lake Tamarisk Library in Desert Center.

The NOP solicited input regarding the scope and content of the environmental information to be included in the Draft EIR. The public comment period for the NOP ended on January 6, 2023. A full copy of the NOP and the list of agencies, elected officials, and Native American Tribes that received the NOP are provided in Appendix A (Scoping Report). Section 1.7 includes a summary of the written and oral comments received.

1.6.2. Public Scoping Meeting

In compliance with California Code of Regulations Section 15082(c), Riverside County conducted a public scoping meeting to inform the public about the Project, provide information regarding the environmental review process; and gather public input regarding the scope and content of the Draft EIR. The public scoping meeting was held on the following date and location:

December 5, 2022, at 1:30 p.m. Riverside County Planning Department 4080 Lemon Street, 12th Floor Riverside, California 9250

The CEQA Scoping Report, provided in Appendix A of this EIR, contains copies of the PowerPoint Presentation, sign-in sheets and speaker registration cards that were used at the scoping meeting, as well as a summary of oral comments received at the meeting. Approximately 20 attended the scoping meeting in person and virtually.

1.6.3. Native American Tribal Outreach

In compliance with Assembly Bill 52 (AB52), on July 12, 2022, the County of Riverside mailed certified letters to representatives of 12 tribes that had previously submitted a written request to the County of Riverside to receive notification of proposed projects. These tribes included Colorado River Indian Tribe, Quechan Indian Nation, Morongo Band of Mission Indians, Torres-Martinez Desert Cahuilla Indians,

Twenty-Nine Palms Band of Mission Indians, Cahuilla Band of Indians, Ramona Band of Cahuilla Indians, Santa Rosa Band of Mission Indians, Cabazon Band of Mission Indians, Augustine Band of Cahuilla Indians, Agua Caliente Band of Cahuilla Indians, and Soboba Band of Luiseno Indians. The letters included a brief description of the proposed Project, information on how to contact the lead agency, and a map showing the Project components. The letters noted that requests for consultation needed to be received within 30 days of the date of receipt of the notification letter; three responses were received, which came from the Augustine Band of Cahuilla Indians, Agua Caliente Band of Cahuilla Indians, and Soboba Band of Luiseno Indians. Additional details on the AB 52 consultation process are included in Section 3.6 (Cultural and Tribal Cultural Resources) and EIR Appendix D.

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1.6.4. Review of Draft EIR

A Notice of Completion (NOC) has been was filed with the State Clearinghouse to begin the public review period (Public Resources Code [PRC], Section 21161) for this the Draft EIR on January 26, 2024. Pursuant to PRC Section 21092.3 and State CEQA Guidelines Section 15087(c), a notice of availability of this the Draft EIR was posted in the Riverside County Clerk's office.

This-The Draft EIR <u>washas been</u> distributed directly to agencies, organizations, and interested individuals, and made publicly available for review and comment in accordance with Section 15087 of the CEQA Guidelines and PRC 21092(b)(3). In compliance with CEQA Guidelines Section 15129, a list of federal, State, and local agencies and other organizations contacted in preparation of this Draft EIR is provided in Section 6.

The Draft EIR is available for review online at <u>http://www.rctlma.org/planning/</u>. To request a hardcopy, please reach out to Tim Wheeler whose contact information is below.

Organizations and interested members of the public are invited to comment on the information presented in this Draft EIR during the 45-day public review period.

Written comments may be mailed, emailed or faxed using the following contact information:

Tim Wheeler, Planner County of Riverside TLMA Planning Department 4080 Lemon Street, 12th Floor, Riverside CA, 92501 Phone: (951) 955-6060 Email: <u>TWheeler@rivco.org</u>

Comments received during the Draft EIR comment period include: 3 from agencies, 11 from businesses/ organizations, 3 from tribes, and 15 from individuals. Issues raised included concerns about impacts to the residents of the Lake Tamarisk Desert Resort related to air emissions/dust, Valley Fever/silica (health), noise, visual resources, traffic, water quantity and quality, as well as impacts to biological resources, namely impacts to desert tortoise, desert dry wash woodland and its buffer, the multi-species linkage corridor, cultural and tribal resources, project description, alternatives, impact significance, compliance with the DRECP CMAs, and the environmentally superior alternative. Many commenters requested consideration of and expressed support for a "Respect Lake Tamarisk Alternative," including a minimum 1-mile natural buffer, substation relocation, screening berms and vegetation, and sites east of State Route <u>177/Rice Road.</u>

All significant environmental issues raised in comments received during the public review period for the Draft EIR will be responded to in the Final EIR.

1.6.5. <u>Revisions to the Draft EIR</u>

In compliance with CEQA, the County prepared and circulated a Partially Recirculated Draft EIR for the Easley Project. The County determined that new or clarified information required recirculation of certain chapters of the original Draft EIR in accordance with Section 15088.5 of the CEQA Guidelines. The CEQA Guidelines state that "[w]hen recirculating a revised EIR, either in whole or in part, the lead agency shall, in the revised EIR or by an attachment to the revised EIR, summarize the revisions made to the previously circulated draft EIR" (see CEQA Guidelines, Section 15088.5, subd. (g)).

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Revisions included in the Partially Recirculated Draft EIR included:

Description of the Proposed Project and Alternatives (Chapter 2)

The Description of the Proposed Project and Alternatives chapter has been revised to provide an updated description of the proposed Project and alternatives, including a description of five new alternatives, as follows.

- Lighting of Gen-tie Line Crossing Structures. Depending on the outcome of the BLM-DoD consultation, infrared obstruction lighting (not visible to the human eye) may be installed in the area of one crossing of an existing transmission line on Easley structure(s) over 180 feet high (see Section 2.3.4).
- Best Management Practices. In Section 2.7, the Applicant has added a list of commenter-requested best management practices (BMPs) to be implemented during site preparation and construction. Section 2.7 also discusses compliance with Conservation and Management Actions (CMAs) that would be required by BLM under the DRECP LUPA and would apply to Project development on BLM-administered land. The Applicant has stated that it will comply with applicable DRECP CMAs on private lands. The DRECP CMAs are listed in a new EIR Appendix CC.
- No Project Alternative (Alternative A2). Under the No Project Alternative, an additional analysis of Uses Allowed by Right within the Existing Land Designations (Alternative A2) has been added to EIR Section 2.8.2, which assumes development of scattered rural residences on private parcels in the Project area.
- No Project Alternative (Alternative A3). Under the No Project Alternative, an additional analysis of Development of Other Renewable Energy within the Existing Land Designations (Alternative A3) has been added to EIR Section 2.8.3, which assumes development of the federal lands under the existing Development Focus Area designation and with other solar, wind, or geothermal generation projects and development of the private lands under the current General Plan and Zoning designations if the proposed Project is not approved or constructed.
- Reduced Footprint Alternative (Alternative B). The "Lake Tamarisk Alternative (Alternative 1)" in the Draft EIR has been renamed as the Reduced Footprint Alternative (Alternative B) throughout the Recirculated Draft EIR. As described in EIR Section 2.8.3, the Reduced Footprint Alternative would remove an additional 20 acres of solar panels directly north of the community of Lake Tamarisk (50 acres total). With this reduction in acreage, the electrical output would be reduced by approximately 7 to 10 MW (up to 390 MW) compared to the proposed Project (up to 400 MW).
- Further Reduced Footprint Alternative with Berms (Alternative C). EIR Section 2.8.4 describes an additional Reduced Footprint Alternative 2 (Alternative C), which includes the following components shown in a new Figure 2-15 (see EIR Appendix A): (1) minimum buffer zone setback of one mile from the Lake Tamarisk Desert Resort borders, including the "Phase II" expansion area; (2) earthen berms at 2 locations; and (3) onsite substation relocation and gen-tie line relocation.
- Offsite Alternative (Alternative D). Commenters requested consideration of alternatives east of State Route (SR-) 177/Rice Road on BLM-managed lands farther from the community of Lake Tamarisk Desert

Resort. Therefore, the Offsite Alternative would involve the construction, operation, maintenance, and decommissioning of an up to 400 MW solar facility, up to 650 MW BESS, and a 500 kV gen-tie line on lands that were originally included in the Applicant's application to BLM. The alternative is described in EIR Section 2.8.5.

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Distributed Commercial and Industrial Rooftop Solar Alternative (Alternative E). The Partially Recirculated Draft EIR analyzes a new Distributed Commercial and Industrial Rooftop Solar Alternative, which would involve the development of a number of geographically distributed small to medium solar PV systems (100 kilowatt hours to 1 MW) within existing developed areas, typically on the rooftops of commercial and industrial facilities situated throughout Riverside County. The alternative is described in EIR Section 2.8.6.

Environmental Setting, Impacts, and Mitigation Measures (Chapter 3)

<u>Certain subchapters within Chapter 3, Environmental Setting, Impacts, and Mitigation Measures, have</u> been revised and recirculated, as summarized below:

- Aesthetics (Chapter 3.2). The Aesthetics chapter has been revised to include updated information relating to the adjacent Oberon project, a new Key Observation Point 7 (facing north from Lake Tamarisk Desert Resort), additional discussion of glare impacts, and an updated analysis of County General Plan Policy LU 9.1 related to permanent preservation of open space lands that contain important natural resources, cultural resources, hazards, water features, watercourses including arroyos and canyons, and scenic and recreational values.
- Agriculture and Forestry (Chapter 3.3). The Agriculture and Forestry chapter has been revised to change Impacts AG-1 and AG-3 to a less-than-significant impact. The EIR concludes that potentially significant impacts would be avoided through cancellation of the Williamson Act contracts and removal of lands within the Project site from County agricultural preserves, as requested by the Project applicant.
- Biological Resources (Chapter 3.5). The Biological Resources chapter has been revised to more clearly describe DRECP Conservation and Management Actions (CMAs) that would apply to the Project, including compensatory mitigation, as well as issues related to desert pavement. Certain mitigation measures have been revised to further clarify plan requirements and performance standards. The revisions do not result in greater environmental impacts or more significant impacts.
- Cultural and Tribal Cultural Resources (Chapter 3.6). The Cultural Resources chapter has been revised to address cultural and tribal resources impacts on BLM-administered land, comments raised about the Lake Tamarisk Desert Resort as a potential historic resource, and comments raised by the Colorado Indian River Tribes that the Project is located in and would adversely impact a cultural and tribal cultural resources. In the Partially Recirculated Draft EIR, cumulative visual impacts to Prehistoric Trails Network Cultural Landscape from the development of the Project in combination with other past, present, and reasonably foreseeable solar projects in the area would be significant and unavoidable, and the Project's incremental contribution to those visual impacts would be cumulatively considerable.
- Hydrology and Water Quality (Chapter 3.11). The Hydrology and Water Quality chapter has been revised to more clearly describe Project impacts to water supply. The section states that because the cumulative scenario under normal conditions indicates a potential groundwater deficit, the County conservatively concludes that cumulative impacts would be potentially significant., however, the Project's incremental contribution is not considered cumulatively considerable.

Comparison of Alternatives (Chapter 5)

In the Partially Recirculated Draft EIR, the Comparison of Alternatives chapter was revised to combine and consolidate the analyses of Project alternatives that was previously separated and included within the

Original Draft EIR under each subchapter of Chapter 3. The Comparison of Alternative chapter also includes new analysis of five new alternatives: No Project Alternative A2 (Uses Allowed by Right within Existing Land Designations), No Project Alternative A3 (Development of Other Renewable Energy within the Existing Land Designations), Alternative C (Further Reduced Footprint Alternative with Berms), Alternative D (Offsite Alternative), and Alternative E (Distributed Commercial and Industrial Rooftop Solar Alternative).

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<u>Chapter 5 now describes the environmentally superior alternative as the Further Reduced Footprint</u> <u>Alternative with Berms (Alternative C). While Alternative C is the Environmentally Superior Alternative, it</u> <u>would result in a reduction of 80 to 110 MW of renewable energy compared to the proposed Project,</u> <u>which reduces its ability to achieve the most important project objectives of meeting State and federal</u> <u>renewable energy goals to counter climate change. Therefore, because Alternative B, the Reduced</u> <u>Footprint Alternative (formerly called the Lake Tamarisk Alternative) meets these critical project</u> <u>objectives to a greater degree and reduces impacts to the Lake Tamarisk community compared to the</u> <u>proposed Project, it is considered to be the next most Environmentally Superior Alternative.</u>

References (Chapter 7)

<u>References for sections included in the Partially Recirculated Draft EIR have been included and updated,</u> <u>as applicable.</u>

EIR Appendices

The Partially Recirculated Draft EIR included updated and new appendices, as follows:

- EIR Appendix A, new and revised/updated figures included:
 - <u>Revised Figure 2-3 (Easley Renewable Energy Project Preliminary Engineering)</u>
 - <u>Revised Figure 2-6 Typical Single Axis Tracker with Portrait Module Orientation</u>
 - <u>Revised Figure 2-14 (Alternative B: Reduced Footprint Alternative)</u>
 - <u>New Figure 2-15 (Alternative C: Further Reduced Footprint Alternative with Berms)</u>
 - <u>New Figure 2-16 (Alternative D: Offsite Alternative)</u>
 - <u>Revised Figure 3.1-1 (Cumulative Projects)</u>
 - New Figure 3.3-1 (Parcels with Williamson Act Contracts)
 - New Figure 3.5-11 (Alternative D, Offsite Alternative, Biological Resources)
- EIR Appendix C, Biological Resources Technical Report, was updated to discuss Crotch's bumble bee, as well as make consistency edits to the discussions of desert pavement and the rare plant inventory list.
- **EIR Appendix F, Jurisdictional Delineation**, has been revised to reflect updated disturbance acreages.
- EIR Appendix G, Water Supply Assessment, was revised to clarify the connection between the data and the report conclusions.
- EIR Appendix I, Visual Impact Analysis and Glare Assessment, was revised to add a new Key Observation Point as well as glare modeling of low-level military flight paths in the Desert Center area. The revisions have been incorporated into EIR Section 3.2 (Aesthetics).

The following new appendices were added in the Partially Recirculated Draft EIR:

- Appendix M Bird and Bat Conservation Strategy
- Appendix N Integrated Weed Management Plan
- Appendix O Nesting Bird Management Plan
- <u>Appendix P</u> Desert Tortoise Protection and Translocation Plan
- Appendix Q Raven Management Plan

- Appendix R Wildlife Protection and Translocation Plan
- Appendix S Vegetation Resources Management Plan
- Appendix T Health, Safety and Noise Plan
- Appendix U Dust Control Plan
- Appendix V Fire Management and Prevention Plan
- Appendix W Hazardous Materials Management Plan
- Appendix X Environmental Compliance and Monitoring Plan
- Appendix Y Closure, Decommissioning, and Reclamation Plan
- Appendix Z Easley sUAS Flight Operations Plan
- Appendix AA Helicopter Safety Plan
- Appendix BB Hydrological Study
- Appendix CC BLM DRECP Conservation and Management Actions

1.6.6. <u>Review of Partially Recirculated Draft EIR</u>

A Notice of Completion (NOC) was filed with the State Clearinghouse on May 24, 2024, to begin the public review period (Public Resources Code [PRC], Section 21161) for the Partially Recirculated Draft EIR. Pursuant to PRC Section 21092.3 and State CEQA Guidelines Section 15087(c), a notice of availability of the Partially Recirculated Draft EIR was posted in the Riverside County Clerk's office.

The Partially Recirculated Draft EIR was distributed directly to agencies, organizations, and interested individuals, and made publicly available for review and comment in accordance with Section 15087 of the CEQA Guidelines and PRC 21092(b)(3).

Consistent with the requirements of Sections 15087 and 15088.5(d) of the State CEQA Guidelines, the Partially Recirculated Draft EIR was made available on May 24, 2024, for public review for a period of 45 days. During this period, the general public, agencies, tribes, and organizations were invited submit written comments on the content of the Partially Recirculated Draft EIR to Riverside County.

Pursuant to procedures set forth in Section 15088.5(f)(2) of the State CEQA Guidelines, reviewers were directed to limit their comments to the revised information contained in the Partially Recirculated Draft EIR. Reviewers need not resubmit comments on the Draft EIR. Comments received on the Draft EIR, as well as comments on the Partially Recirculated Draft EIR, are all responded to in this Final EIR. However, Riverside County is not responding to comments on the Partially Recirculated Draft EIR that do not pertain to the recirculated text.

Comments received during the Partially Recirculated Draft EIR comment period include: 3 from agencies, 11 from businesses/organizations, 2 from tribes, and 16 from individuals. Issues raised included concerns about the residents of the Lake Tamarisk Desert Resort related to air emissions/dust, Valley Fever/silica (health), noise, visual resources, traffic, water quantity and quality, as well as impacts to biological resources, namely impacts to desert tortoise, desert dry wash woodland and its buffer, the multi-species linkage corridor, cultural and tribal resources, project description, alternatives, impact significance, compliance with the DRECP CMAs, BLM's DRECP DFA land designations, and the environmentally superior alternative.

1.6.7. Preparation and Certification of Final EIR and MMRP

Following consideration of the comments received during this Draft EIR <u>and Partially Recirculated Draft</u> <u>EIR</u> comment periods, the Final EIR will be prepared and circulated per CEQA requirements and will include responses to all comments that raise significant environmental issues. Consideration of the Final EIR and requested Project approvals by the County Board of Supervisors is anticipated in <u>late 2023fall 2024</u>.

The Final EIR will include comments received on the Draft EIR and Partially Recirculated Draft EIR, and responses to those comments, along with any modifications to the Draft EIR and Partially Recirculated

Draft EIR. Consistent with Section 15088.5(f)(2), the County will respond to (i) comments received during the initial circulation period that relate to chapters or portions of the Original Draft EIR that were not revised and recirculated as part of this Partially Recirculated Draft EIR, and (ii) comments received during the recirculation period that relate to the chapters or portions of the Original Draft EIR that were revised and recirculated as part of this Partially Recirculated Draft EIR. In addition, CEQA Guidelines Section 15097 requires that public agencies adopt a program for monitoring mitigation measures that reduce or eliminate significant impacts on the environment. Accordingly, a Mitigation Monitoring and Reporting Program (MMRP) will be prepared for the proposed Project and included as part of the Final EIR.

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The County Board of Supervisors will consider all comments on the Draft EIR and Partially Recirculated Draft EIR before deciding whether to certify the Final EIR and make a decision whether or not to approve the Project.

1.7. **Scoping Comments**

1.7.1. **Scoping Comments Summary**

This section summarizes the verbal and written comments received from the public and agencies during the scoping period for the proposed Project. In addition to comments received during the scoping meeting, 46 different entities submitted written comment letters: 4 from federal, state, and local agencies; 3 from organizations and businesses; 1 from the Native American Heritage Commission; and 38 from individuals. Copies of the original comment letters received during the NOP scoping period may be found in the Scoping Report. A full copy of the Scoping Report is provided in Appendix A.

List of Agencies/Other Commenting Groups

Agencies

 Southern California Association of Govern 	ments 🔳 US Fish and	Wildlife Service
California Department of Fish and Wildlife	 Metropolit 	an Water District of Southern California
Organizations and Businesses		
 California Unions for Reliable Energy Sempra Utilities Lake Tamarisk Desert Resort (LTDR) 		
Tribal Agency		
Native American Heritage Commission		
Private Citizens		
Steve and Vickie JonesRo	bert Stiver	Vicki Bucklin 1
 Vicki Bucklin 2 Cyt 	nthia Green	Georgia Beckwith

- June McArthur Robert Stiver #2
- Lester Beatty
- John Wilmoth
- Sharon Dilley
- Linda Armstrong
- Kathy Schofield
- Nancy Ray
- Ron Simmons

- Tim LeForge
- Jim and Janice Baker
- Mable Beatty
- Lori Carney
- Bruce McArthur
- Peter Longman
- Candace and Ross Ryding
- Barry Reid
- Gary and Debbie Lundberg

- Leann Kingsley
- Ken Stamp
- Julie Anderson
- Vicki Bucklin #3
- Brian Hagman
- Frankie Nobert
- Bob and Judy Walston
- Robert C. Mitchell
- Lee Petersen

Steve and Vickie Jones	Robert Stiver	Vicki Bucklin 1
Kenneth Jacks	Wally and Carolyn White	Debra Westcott
William and Leanna Kingsley	Patti Cockcroft	
	ting	
	uing ■ John Wilmoth	Kathy
 Mark Goddard 	•	KathyTim LeForge
 Oral Commenters at Scoping Mee Mark Goddard Peggy Davis Kim Fraser 	 John Wilmoth 	,

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1.7.2. Environmental Topics Addressed

Applicable scoping comments for each resource are discussed and addressed under the proposed Project Impact Analysis for each issue area section in Section 3. The issues identified in scoping efforts are also listed in Table 1-1 and described in more detail in Appendix A (Scoping Report).

Public comments received addressed the following topics: project description, purpose and need, visual resources, air quality and greenhouse gas emissions, cultural and tribal cultural resources, existing and planned land uses, energy, noise and vibration, public health and safety, recreation and off-highway vehicle use, transportation and traffic, hazards and hazardous materials, hydrology and water quality, soils, biological resources, mitigation measures, indirect and cumulative impacts, project alternatives, and permitting and consultation, among other issues. <u>Many similar concerns were expressed during the Draft EIR and Partially Recirculated Draft EIR comment periods, which are responded to in EIR Appendix DD.</u>

Comments related to the Oberon Renewable Energy Project construction have been considered as applicable to environmental impacts associated with the Easley Project and have been directed to the Applicant.

Scoping Topic	Section Addressec
Project Description	
Potential impacts to Metropolitan Water District's transmission system, as a	Section 2
Potentially Affected System for this proposed Project.	Section 3.12
Aesthetics/Visual Resources	
Proximity of the solar panels to the community being an eyesore, which could cause reduction in quality of life	Section 3.2
Light and glare reflecting off of the solar panels, which could also affect pilots in	Section 3.2
the area.	Appendix I
Light pollution from the Project affecting the dark skies environment	Section 3.2
General visual impacts on Desert Center and Joshua Tree National Park	Section 3.2
Visual impacts of fencing and debris that gets caught in it	Section 3.2
Air Quality	
Increased risk of Valley Fever.	Section 3.4
	Section 3.10
Increased airborne dust created from solar projects due to the ground	Section 3.4
disturbance and removal of vegetation and the potential transport of airborne	Section 3.5
silica and herbicides.	Section 3.10
Potential for airborne dust settling and accumulating on items in the community and on water in Lake Tamarisk.	Section 3.4
Standards for regulating silica and using ground matting to reduce exposure to dust.	Section 3.4

Table 1-1.Scoping Issues Identified

Scoping Topic	Section Addressed
Biological Resources	
mpacts to vegetation communities, desert dry wash woodlands, ironwood trees,	Section 3.5
and desert wildflowers.	Appendix C
	Appendix F
mpacts to displaced wildlife (including desert tortoise, deer, coyote, cougar,	Section 3.5
zards, and migrating birds), loss of habitat, and new barriers to movement	Appendix C
outes. Concerns that fewer wildlife are seen in the community since solar evelopment started.	Appendix F
mpacts to desert tortoise habitat connectivity between designated critical	Section 3.5
abitat units and loss of gene flow.	Appendix C
	Appendix F
otential "lake effect" that may attract birds, resulting in collisions with facilities.	Section 3.5
npacts of power lines on birds, resulting in electrocution. Impact of solar	Appendix C
evelopment on health and presence of migratory birds.	Appendix F
round disturbance and grading resulting in modifications to washes, stormwater	Section 3.5
unoff, and potential for floods in the community. Impacts of vegetation	Appendix C
nanagement on erosional patterns during flash flooding.	Appendix F
uccess of post-construction revegetation, considering climate change in an arid	Section 3.5
imate.	Appendix C
	Appendix F
crease in termite swarms and rattlesnake encounters.	Section 3.5
	Section 4.5
	Appendix C
	Appendix F
eed to consider acreage already lost to solar development in the BLM	Section 2.8
evelopment Focus Area, and what is likely to be developed in the future.	Section 3.5
	Appendix C
	Appendix F
otential for increased local temperatures due to "PV heat island effect".	Section 3.5
	Appendix C
	Appendix F
ultural/Tribal Cultural Resources	
npacts to artifacts and the General Patton Desert Training Center historical area.	Section 3.6
	Appendix D
arly consultation with California Native American tribes that are traditionally	Section 1.6.3
nd culturally affiliated with the geographic area of the Project.	Section 3.6
	Appendix D
void inadvertent discoveries of Native American human remains and best	Section 3.6
rotect tribal cultural resources.	Appendix D
nergy	
nergy required to cool the BESS facility	Section 3.7
	Section 4.4
he amount of energy that would be taken from the local grid.	Section 3.7
	Section 4.4
eat in the region affecting battery efficiency.	Section 3.7
leeting renewable energy goals.	Section 1.3
	Section 3.7
	Section 5
eology and Soils	
npacts of ground disturbance and grading changing drainages and washes.	Section 3.8

Scoping Topic	Section Addressed
Erosion due to the removal of stabilized soils and soil crusts.	Section 3.8
Ability of the soil to support revegetation after the Project's life due to chemical vegetation treatments resulting in sterilization of the soil.	Section 3.8
Adverse effects on carbon sequestration in desert vegetation and desert soils due to Project grading and soil disturbance.	Section 3.8
Greenhouse Gas Emissions	
Use of water and temperatures of the region, relating to quantification of GHG emissions attributable to energy consumed for the purposes of delivering the water supply.	Section 3.9 Appendix J
The "Heat Island Effect"	Section 3.5
Production of the solar panels that could be used for the Project, and the potential carbon footprint (for example, emissions created by manufacturing and transporting) of imported or foreign-produced solar panels.	Full life-cycle analysis is beyond the scope of a CEQA document for a given project.
Hazards and Hazardous Materials	
Health effects from the increase in wind-blown dust, which carries silica, pollens, and other chemicals/pollutants (herbicides).	Section 3.10
Concerns relating to Valley Fever.	Section 3.4 Section 3.10
Health hazards related to EMF.	Section 3.10
Increased risk of wildfire due to presence of power lines.	Section 3.10 Section 3.19
Contamination from chemicals used for vegetation management.	Section 3.10
Concerns regarding hazardous materials releases if/when the solar panels are broken.	Section 3.10
Hydrology and Water Quality	
Regarding surface water, concerns were raised about the potential for floods due to the modification of washes and removal of vegetation.	Section 3.11
Regarding surface water, concerns were raised about creating impacts to stormwater runoff.	Section 3.11
Flash floods causing changes in erosion patterns.	Section 3.11
Regarding ground water, concerns were raised about Project construction and operational water use.	Section 3.11 Appendix G
Project water use contributing to a chronic lowering of groundwater levels and groundwater in storage; thereby potentially impacting existing community and domestic water supply infrastructure and decreasing groundwater availability.	Section 3.11 Appendix G
Observed climate change and the potential impacts to groundwater in the Chuckwalla Valley Groundwater Basin.	Section 3.11 Appendix G
Project maintenance operations (e.g., weed abatement) impacting groundwater quality.	Section 3.10 Section 3.11
Project use of water classified as Colorado River water from below the "accounting surface."	Section 3.11
Land Use and Planning	
BLM's Area of Critical Environmental Concern (ACEC) west of Kaiser Road needs to remain protected.	Section 3.12 Note that this ACEC is outside of the Project area and is located on BLM-administered land. The man- agement actions on the ACEC are under BLM jurisdiction and are outside of the scope of this EIR.

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Scoping Topic	Section Addressed
Original plans for Lake Tamarisk Desert Resort included a second 9-hole golf course.	Section 3.12
Desert Center Area Plan (DCAP) focuses on preserving the unique features found	Section 3.12
in the Desert Center area; the DCAP should apply, but it is being ignored.	Applicable DCAP policies are listed
	under each issue area in Section 3.
Metropolitan Water District must be allowed to maintain its ROW and have unobstructed access to its facilities adjacent to the Project site.	Section 3.12
Solar projects planned for sites west of SR-177/Rice Road should be shifted to	Section 3.12
lands east of SR-177 and away from the Lake Tamarisk community.	Section 2.8.5
	Section 2.9
Potential for decreased property values due to the proximity of the Project to the	Section 3.2
Lake Tamarisk Desert Resort, including impacts from noise, traffic, night lighting,	Section 3.4
and dust.	Section 3.12
	Section 3.13
	Section3.18
	Section 4.7
Noise and Vibration	
Noise from construction, especially due to the proximity of the proposed development to homes in the Lake Tamarisk Desert Resort and nearby communities, as well as noise from increased traffic.	Section 3.13
Increase in noise due to loss of vegetation.	Section 3.13
Constant "loud buzzing sound."	Section 3.13
Land use change on a large-enough scale to alter the natural effect of ground absorption.	Section 3.13
Public Services and Utilities	
Waste that batteries cause when they are no longer useful,	Section 3.16
Potential for an increased need for law enforcement.	Section 3.16
Lake Tamarisk sewage settlement ponds are on BLM-administered land within	Section 3.16
the perimeter of the proposed Project and suggested the sewage pond land needs to be assigned to Riverside County in care of County Service Area 51.	50000 5.10
Recreation	
Decrease in quality and availability of recreation due to heat and wind and the	Section 3.5
presence of solar developments.	Section 3.17
Preventing access for OHVs, hiking, or other recreational activities.	Section 3.17
Decrease in the scenic value of the region.	Section 3.2
U U	Section 3.17
Allowing passages through Project to allow for easier access to recreational areas for OHV use and hiking.	Section 3.17
Transportation and Traffic	
Increased disturbance, dust, and noise created by construction vehicles and	Section 3.4
trucks, and the speed and presence these trucks impacting the safety of	Section 3.5
residents.	Section 3.13
	Section 3.18
Coordination with the Department of Defense (DoD), as the Project is in a fly zone, which the military uses for training.	Section 3.18
Wildfire	
Increased risk of wildfires due to the increased presence of power lines	Section 3.19
	Section 3.13

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Scoping Topic	Section Addressed
Other CEQA Considerations	
Potential loss of property value as a result of solar projects being developed	Section 3.12
nearby and the potential for compensation.	Section 4.5.1
Moratorium on permitting of solar projects with 5 miles of Lake Tamarisk Desert Resort until the 2012 BLM Western Solar Plan is revised and defines setbacks and exclusion zones around communities and that these are agreed upon by the community of Lake Tamarisk.	Section 4.5.2*
Increase in occurrence of termites and rattlesnakes	Section 4.5.3
Alternatives	
A no-large-scale energy alternative is justified and should be analyzed.	Section 2. <u>8</u> 9
	Section 5
Analyze an alternative that focuses on rooftop solar, and maximizes wildlife	Section 2 <u>.8.6</u>
protection by avoiding, minimizing, and fully mitigating all direct, indirect, and	Section 3.5
cumulative impacts to wildlife and wildlife habitat to at least a no-net loss standard.	Section 5
Include a no-action alternative based on local small scale distributed battery	Section 2.8
technology in urban centers.	Section 2.9
	Section 5
Members of Lake Tamarisk Desert Resort requested installation of earthen berms	Section 2. <u>8</u> 9
to be used for visual screening of the solar facility from the community	Section 5
Community members at the Lake Tamarisk Desert Resort requested a 5-mile	Section 2. <u>8</u> 9
"Natural Desert Zone" buffer from the community to the nearest solar installation	Section 4.5.2

* In February 2023, BLM announced that it chose not to include the area under the DRECP in its update to the 2012 Western Solar Plan, as "the BLM continues to believe the DRECP supports an acceptable balance between conservation and renewable energy opportunities within its planning area boundary." [https://www.blm.gov/press-release/bureau-land-management-announces-end-public-comment-period-utility-scale-solar-review]

1.8. EIR Format and Content

This EIR was prepared in accordance with State and County administrative guidelines established to comply with the CEQA. State CEQA Guidelines Section 15151 provides the following standards for EIR adequacy:

"An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among the experts. The courts have looked not for perfection; but for adequacy, completeness, and a good faith effort at full disclosure."

This EIR is divided into the following major sections. Figures are referenced as necessary in each section to graphically represent the topic at hand and are located together in EIR Appendix A.

- Executive Summary. Provides an overview of the Project and a summary of the significant impacts identified in the analysis and associated mitigation measures. A summary of the alternatives and environmentally superior alternative is also provided.
- Section 1. Introduction. Provides an overview of the proposed Project evaluated in the EIR and a summary of the objectives for the Project. This section also discusses agency use of the document and provides a summary of the contents of the EIR.

Section 2. Description of the Proposed Project and Alternatives. This section gives an overview of solar technology and details the location and characteristics of the Project along with a description of the surrounding land uses. It includes construction and operational aspects of the Project and relevant background information. It provides descriptions of the alternatives that were evaluated in the document. The section also presents an alternatives screening analysis that was used to identify alternatives that could reduce significant impacts associated with the proposed Project. The alternatives that made it through the screening analysis are evaluated in detail throughout the document.

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- Section 3. Environmental Setting, Impacts, and Mitigation Measures. This section contains a detailed environmental analysis of the existing conditions, Project impacts, mitigation measures, and cumulative impacts.
- Section 4. Other CEQA Considerations. This section presents an analysis of the Project's growth-inducing impacts and other CEQA requirements, irreversible commitment of resources, significant and unavoidable impacts and energy conservation, and a discussion of impacts that are applicable to permitting with the California Department of Transportation. This section also discusses issues raised by agencies and the public during scoping that are not discussed in Section 3 because the issues raised are outside of the scope of CEQA.
- Section 5. Comparison of Alternatives. This section provides a comparative analysis (matrix) to distinguish the relative effects of each alternative and its relationship to Project objectives and impacts. The alternatives analysis also identifies the "environmentally superior alternative," as required by CEQA Guidelines Sections 15126.6(d) and (e)(2).
- Section 6. List of Preparers. This section provides a list of individuals that prepared or contributed to this Draft EIR.
- Section 7. References. This section lists reference materials used to prepare the Draft EIR.
- Appendices. The EIR figures, CEQA Scoping Report, technical reports and studies, <u>draft management plans</u>, and other relevant information are included as appendices to support the environmental analyses. <u>In this Final EIR</u>, a new Appendix DD includes comments and responses to comments submitted on the Draft EIR and Partially Recirculated Draft EIR. A new Appendix L contains the Project's Mitigation Monitoring and Reporting Program (MMRP).

1.8.1. Terminology Used in this Document

CEQA documents include the use of specific terminology. To aid the reader in understanding terminology and language used throughout this document, the following CEQA terms are defined below and discussed in greater detail in Section 3.1 (Introduction to Environmental Analysis):

Project: The whole of an action that has the potential to result in a direct or indirect physical change in the environment.

Environment: The baseline physical conditions that exist in the area before commencement of the proposed Project and that the proposed Project would potentially affect or alter. The environment is where significant direct or indirect impacts could occur as a result of Project implementation, and it includes such elements as air, biological resources (i.e., flora and fauna), land, ambient noise, mineral resources, water, and objects of aesthetic or cultural significance.

Direct impacts: Impacts that would result in a direct physical change in the environment as a result of Project implementation. Direct impacts would occur at the same time and place as the Project.

Indirect or secondary impacts: Impacts that would result from proposed Project implementation but that may occur later in time or farther removed in distance.

Significant impact on the environment: A substantial, or potentially substantial, adverse change in physical conditions that is the result of proposed Project implementation. This can include substantial or potentially substantial adverse changes to air, biological resources (flora or fauna), land, water, minerals, ambient noise, and objects of cultural or aesthetic significance. An economic or social change may factor into an assessment of whether a physical impact is significant, but it not itself a significant impact on the environment.

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Mitigation measures: Project-specific actions that, if adopted, avoid or substantially reduce the proposed Project's significant environmental effects. Effective mitigation measures can:

- avoid the impact altogether;
- minimize the impact by reducing the degree or magnitude of the action and its implications;
- rectify the impact by repairing, rehabilitating, or restoring the affected environment;
- reduce or eliminate the impact over time by preservation and maintenance operations during the life of the action; or
- compensate for the impact by replacing or providing substitute resources or environments.

Applicant Proposed Measures (APMs): Measures that avoid, minimize, or reduce impacts, which are distinguished from mitigation measures in this EIR, because IP Easley, LLC, the Applicant commits to complying with these measures to reduce potential impacts during construction and operation. Any APMs discussed in the EIR are inherently part of the proposed Project and are not additional mitigation measures proposed as a result of the significance findings from the CEQA environmental review process.

Best Management Practices (BMPs): Measures that avoid, minimize, or reduce impacts, which are distinguished from mitigation measures because BMPs are: (1) requirements of existing policies, practices, and measures required by law, regulation, or local policy; (2) ongoing, regularly occurring practices; and (3) not specific to this proposed Project. Any BMPs discussed in the EIR are inherently part of the proposed Project and are not additional mitigation measures proposed as a result of the significance findings from the CEQA environmental review process.

Cumulative impacts: Two or more individual impacts that, when considered together, are considerable or that compound or increase other environmental impacts (State CEQA Guidelines Section 15355). The following statements also apply when considering cumulative impacts:

- The individual impacts may be changes resulting from a single project or a number of separate projects.
- The cumulative impact from several projects is the change in the environment that results from the incremental impact of the Project when added to other closely related past, present, and reasonably foreseeable probable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over time.

Section 15130 of the State CEQA Guidelines provides further direction on the definition of cumulative impacts:

(a)(1) As defined in Section 15355, a cumulative impact consists of an impact which is created as a result of the combination of the project evaluated in the EIR together with other projects causing related impacts [emphasis added].

(b)...The discussion of cumulative impacts shall...focus on the cumulative impact to which the identified other projects contribute rather than the attributes of other projects which do not contribute to the cumulative impact [emphasis added].

For example, if another project contributes only to a cumulative impact upon natural resources, its impacts on public services need not be discussed as part of cumulative impact analysis. Taken together,

these elements define what counts for the practitioner and help to focus the evaluation upon other actions that are closely related in terms of impact on the resource — not closely related project types.

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Terms used in this document to describe the level of significance of adverse impacts are defined as follows:

- No Impact: An impact to a specific environmental resource would not occur.
- Less than significant: An impact that is adverse but that falls below the defined thresholds of significance and does not require mitigation.
- Less than significant with mitigation incorporated: An impact that exceeds the defined thresholds of significance but is reduced to a less than significant level through the incorporation of mitigation measures.
- Significant: An impact that exceeds the defined thresholds of significance. A significant impact would or could potentially cause a substantial adverse change in the environment and would require incorporation of feasible mitigation measures to eliminate the impact or reduce it to a less-than-significant level.
- Significant and unavoidable: An impact that cannot be eliminated or lessened to a less-than-significant level through incorporation of mitigation measures.

1.9. Anticipated Permits and Approvals

The Easley Project would be located on both private and BLM-administered lands. Due to the private land components, which are under County jurisdiction, discretionary approvals from Riverside County would be required. The Applicant is seeking a minimum 4050-year CUP (CUP 220021) and PUP (PUP 230002) for the construction, operation, and decommissioning of the proposed solar facility and gen-tie line, which would be accompanied by a development agreement that would be coextensive with the operation of the solar facility. As part of the Project, the Applicant is seeking cancellation of parcels under Williamson Act contract and to merge contiguous Project parcels. Roads along the Project perimeter on the solar facility lands would remain dedicated public access.

The Applicant has also applied for <u>and received</u> certification by the Governor as an Environmental Leadership Development Project (ELDP). Therefore, the Office of Planning and Research (OPR) is reviewing the Project under the ELDP criteria set forth in Senate Bill (SB) 7.

Ancillary permits, including encroachment permits and construction permits are anticipated from the County. These permits and approvals are local ministerial actions that will follow CEQA compliance. Other State and local agencies or regulatory entities that could exercise authority over specific elements of the proposed Project are described in Table 1-1.

Table 1-2 provides a list of permits and other approvals that will (or may) be needed for the proposed Project. The County, as the CEQA lead agency, will act first on the Project before any of the responsible agencies. Riverside County decision-makers (Board of Supervisors) will certify the EIR as being in compliance with CEQA and will make any findings or statement of overriding considerations required by law, prior to the County or any other agency relying on the EIR for permit/land use approvals. Then the County decision-makers will use the EIR for decision-making regarding the proposed Project. If the proposed Project is approved by all required permitting agencies, the County and BLM would be responsible for reviewing and approving all pre-construction compliance plans and ensuring that the proposed Project modifications are conducted in accordance with the Project mitigation measures and other permit conditions within their respective jurisdictions.

Agency	Permit	Applicability
Federal		
BLM	Grant of Right-of-Way	For solar and energy storage facility, gen-tie line, and associ- ated facilities construction and operation on BLM-adminis- tered land.
U.S. Fish & Wildlife Service	Biological Opinion	For compliance with Section 7 of the federal Endangered Species Act.
U.S. Army Corps of Engineers	Clean Water Act Section 401/404 Certification	Only if Waters of the United States are determined to be present and potentially impacted on the Project site.
County		
Riverside County	Conditional Use Permit	Construction of the solar and energy storage facility on private land under County jurisdiction
	Public Use Permit	Construction of the medium voltage collector lines and/or gen- tie line on or across County-owned land under County jurisdic- tion
	Parcel Mergers <u>and</u> Road Vacations	Merging of contiguous solar facility parcels pursuant to State Subdivision Map Act.
	Variance	For all structures located within the N-A zone that would be higher than 20 feet and for structures in the A-1 and W-2 zones that would exceed 105 feet.
	Construction Permit (Building Permit)	Riverside County authorizes construction activities under the master Construction Permit. This permit encompasses grading, building, electrical, mechanical, landscaping, and other activ- ities. The County's review for ordinance standards is under- taken as part of this review.
	Encroachment Permit	Riverside County requires an Encroachment Permit for utility trenching within a public right-of-way. The proposed gen-tie line would be overhead when crossing roadways, however, driveway aprons for proposed access roads may require an encroachment permit.
		As part of the application for the Encroachment Permit, the Applicant must submit construction drawings and a traffic control plan for any work that would take place in public streets.
State or Regional App	rovals	
South Coast Air Quality Management District (SCAQMD)	Dust Control Plan	A dust control plan is required to be submitted and approved by the SCAQMD prior to initiation of ground disturbances activities associated with construction.
	Authority to Construct and Permit to Operate	Facility backup generator permits for Project operations, if required.
California Department of Transportation (Caltrans), District 8*	Encroachment Permit	An encroachment permit would be required for installation of ingress egress lane(s) along SR-177, and construction of the gen-tie line across SR-177.

Table 1-2.	Permits and Approvals for the Easley Renewable Energy Project
	remits and Approvals for the Easiey Kenewable Energy roject

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Agency	Permit	Applicability
CaliforniaLake and StreambedDepartment of FishAlteration Agreementand Wildlife (CDFW)		For compliance with Fish and Game Code 1602 for all peren- nial, intermittent, and ephemeral rivers, streams, and lakes in the state.
	Incidental Take Permit	For compliance with Section 2081 of the California Endangered Species Act.
Colorado River Basin CWA section 401 Water Regional Water Quality Quality Certification or Control Board (RWQCB) Waste Discharge Requirements		Regulates the discharge of dredged or fill material under section 401 of the Clean Water Act and the Porter-Cologne Water Quality Control Act.

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* A summary of the EIR analysis that supports Caltrans permitting is included in EIR Section 4.6 (California Department of Transportation CEQA Summary).

The Project is being pursued in accordance with land use plan amendments adopted by Riverside County. These include General Plan Amendment (GPA) 1080, which added Land Use Policy LU 15.15, stating: "[p]ermit and encourage, in an environmentally and fiscally responsible manner, the development of renewable energy resources and related infrastructure, including but not limited to, the development of solar power plants in the County of Riverside."

1.9.1. Related Federal Review and Consultation Requirements

Approximately 2,735 acres of the solar and energy storage facility would be located on public lands administered by BLM. The power produced by the Project would be conveyed to the statewide power grid via an overhead 500 kV gen-tie transmission line interconnecting to the Oberon <u>SubstationSwitchyard</u>, which is connected to the SCE Red Bluff Substation, an existing substation located south of Interstate 10 (I-10) on BLM-administered land. After exiting the onsite substation parcel, the 500 kV gen-tie transmission line would be located within a 175-foot ROW, <u>on an additional 139-acre corridor</u> across BLM-administered lands managed by the Palm Springs-South Coast Field Office. Construction, operation, and maintenance of the solar and energy storage facility and gen-tie line will be analyzed in this EIR and additionally in an Environmental Assessment (EA) under NEPA.

It is anticipated that BLM may rely upon the information contained in this EIR when it prepares the EA for its proposed actions under NEPA. However, such review would occur on a separate schedule. While the BLM is being consulted in preparation of this document, the BLM is not participating as a joint preparer of this document, and the BLM is not circulating this document for comments.

1.10. Primary Contact Person

The primary contact person for this EIR is Tim Wheeler and his contact information is listed below:

Tim Wheeler, Planner County of Riverside TLMA Planning Department 4080 Lemon Street, 12th Floor, Riverside CA, 92501 Phone: (951) 955-6060 Email: <u>TWheeler@rivco.org</u>

2. DESCRIPTION OF THE PROPOSED PROJECT AND ALTERNATIVES

2.1. Introduction

IP Easley I, LLC, IP Easley II, LLC, and IP Easley III, LLC (Applicant or Proponent), a-subsidiar<u>iesy</u> of Intersect Power, LLC, proposes to construct, operate and decommission the Easley Renewable Energy Project (Easley Project or Project), a utility-scale solar photovoltaic (PV) electrical generating and storage facility, and associated infrastructure to generate and deliver renewable electricity to the statewide electricity transmission grid.

The proposed Project application area is located on approximately 3,735 acres of private and BLM-administered land, in Riverside County north of Desert Center, California (see Figure 2-1). The Project would generate up to 400 megawatts (MW) of renewable electricity via arrays of solar photovoltaic (PV) panels, store up to 650 MW in a battery energy storage system (BESS), and include appurtenant facilities. A 6.7-mile 500 kilovolt (kV) generation-tie (gen-tie) line <u>(139 acres)</u> would mainly traverse across the Oberon Renewable Energy Project site (south of the Project site) and connect into an existing substation on the approved Oberon Project site. The Oberon Project is a solar PV and energy storage facility owned by Intersect Power. From the Oberon onsite substation, the power generated by the Easley Project would be transmitted to the Southern California Edison (SCE) Red Bluff Substation via the existing Oberon 500 kV gen-tie line (see Figure 2-2).

Public lands within the Project solar application area are lands designated as Development Focus Area (DFA) by the Desert Renewable Energy Conservation Plan (DRECP) and associated Record of Decision (ROD), and thus, have been targeted for renewable energy development. Because the proposed Project is partially located on federal land under management of the U.S. Bureau of Land Management (BLM), the BLM is the lead agency under the National Environmental Policy Act (NEPA), 42 U.S.C. section 4321 et seq.

Depending on the timing of the interconnection agreement, the Easley Project could be operational as early as late 2025. The Project would operate for a minimum of 35 years and up to 50 or more years. At the end of its useful life, the Project would be decommissioned, and the land returned to its pre-Project conditions. Revegetation would be conducted in accordance with the Decommissioning and Revegetation Plan.

2.1.1. Overview of Solar Technology

Solar cells, also called PV cells, convert sunlight directly into electricity. PV gets its name from the process of converting light (photons) to electricity, which is called the "photovoltaic effect." PV cells are located on panels, which are mounted at a fixed angle facing south or on a tracking device that follows the sun. Many solar panels on multiple rows combined together and controlled by a single motor create one system called a solar tracker. For large electric utility or industrial applications, hundreds of solar trackers are interconnected to form a utility-scale PV system.

2.1.2. Insolation

Insolation is a measure of solar radiation energy received on a given surface in a given time. It is commonly expressed as an average irradiance in watts per square meter (W/m2) or kilowatt-hours per square meter per day (kWh/m2/day). The region in which the proposed Project is located receives greater than 6.5 kWh/m2/day of solar radiation energy, giving it a higher degree of solar radiation than most areas within the United States.

2.2. Project Location and Surrounding Land Uses

The Easley Project is located in Riverside County, north of Interstate 10 (I-10) and approximately 2 miles north of the town of Desert Center, California. The Easley solar and energy storage facility is located on private and BLM-administered land, with the legal description by parcel presented in Table 2-1.

Figure 2-1 (Project Vicinity) illustrates the location of the proposed Project and its relationship to major highways, access roads, and communities. Figure 2-2 (Project Area) shows the Project area and the gentie line. Figure 2-3 (Project Layout) shows the Proposed Project's panel, substation and BESS layout with preliminary engineering. Nearby land uses include previously developed or developing solar facilities, transmission lines, fallow and active agriculture, and rural residences. The private parcels consist of primarily manmade features that include deciduous orchard/ fallow agriculture or developed areas.

The existing Desert Sunlight and Desert Harvest solar projects are north of the proposed Project, and the Athos Renewable Energy Project is located to the east, the Oberon Renewable Energy Project is located to the southeast. Solar Projects that are under construction nearby include the Oberon Renewable Energy Project to the southeast and the Arica and Victory Pass Solar Projects to the southeast. The Sapphire Solar Project, proposed by EDF Renewables, is adjacent to the northern area of the Easley Project. Figure 2-4 (Desert Center Solar Projects & DRECP Context) shows the proposed Easley Project in relation to other existing, approved, and proposed solar facilities in eastern Riverside County and illustrates the proposed consolidation of the gen-tie corridors. The Applicant is in negotiations with Metropolitan Water District (MWD) and EDF Renewables to ensure that there are no conflicts with existing or proposed easements across the Easley Project site.

Figure 2-5 (Easley Renewable Energy Project Site Photographs) includes ground-level photographs of the Project site.

Property Owner	APNs	Section(s)	Township & Range	USGS Quad
Private Parcels			-	· · · · ·
American Coal Liquefaction, LLC	808-023-005 808-030-002	Sec. 12 E1/2 SE1/4	T. 5 S., R. 15 E.	East of Victory Pass, Corn Spring
Benedicto M Estoesta & Divina Gracia A. Estoesta Trust	808-023-032 808-023-031	Sec. 2, SE1/4 and SW1/4	T. 5 S., R. 15 E.	Victory Pass
Cook, Robert H. Cook, Laurie M.	811-270-015	Sec. 6, NW1/4SW1/4	T. 5 S., R. 16 E.	East of Victory Pass
Dean Trust	811-141-011	Sec. 7, NW1/4, N1/2NE1/4, SW1/4NE1/4, and N1/2SW1/4	T. 5 S., R. 16 E.	East of Victory Pass, Corn Spring
Draskovich, Todd Culver Draskovich, John Steven	808-240-007	Sec. 1, SE1/4SE1/4	T. 5 S., R. 15 E.	East of Victory Pass
Fundlandoil, LLC	811-270-006	Sec. 6, SW1/4SE1/4	T. 5 S., R. 16 E.	East of Victory Pass
JC Investments	808-030-011	Sec. 12, SE1/4SE1/4 Sec. 7, SW1/4SW1/4	T. 5 S., R. 15 E. T. 5 S., R. 16 E.	Corn Spring
JMP Inc., a Nevada Corporation	808-023-018	Sec. 13, W1/2NW1/4	T. 5 S., R. 15 E.	Corn Spring, Desert Center
MiJo Investments, LP, Blowers Family Trust	808-280-004 808-280-005 808-280-006 808-280-007	Sec. 13, NE1/4 and SE1/4NW1/4	T. 5 S., R. 15 E.	Corn Spring

Table 2-1. Solar and Energy Storage Facility Parcels

Property Owner	APNs	Section(s)	Township & Range	USGS Quad
	808-280-008			
	808-280-002			
	808-280-003			
	808-280-001			
Spindle Top Bayou	811-270-001	Sec. 6, S1/2SE1/4 and S1/2SW1/4	T. 5 S., R. 16 E.	East of Victory Pas
Farm, Inc., a Texas	811-270-002			
Corporation	811-270-003			
	811-270-004			
	811-270-005			
	811-270-007			
BLM-Administered Parce	els			
Solar and BESS Facility				
USA 807	807-172-027	Sec. 34, NE1/4, SE1/4, E1/2NW1/4,	T. 4 S., R. 15 E.	Victory Pass
	807-172-015	and E1/2SW1/4;		
	807-191-029	Sec. 35		
USA 808	808-023-022	Sec. 2, N1/2SW1/4;	T. 5 S., R. 15 E.	Victory Pass,
	808-023-030	Sec. 3, E1/2NE1/4 and E1/2SE1/4;		Desert Center,
	808-023-024	Sec. 10, E1/4NE1/4, and		Corn Spring
	808-270-012	NE1/4SE1/4;		
	808-270-007	Sec. 11;		
	808-230-005	Sec. 12, NW1/4, NE1/4,		
	808-023-027	N1/2SW1/4, and NW1/4SE1/4;		
	811-122-005	Sec. 13, N1/2SW1/4, and		
		SW1/4SW1/4;		
		Sec. 14, NE1/4NE1/4		
USA 811	811-121-008	Sec. 5, W1/2SW1/4;	T. 5 S., R. 16 E.	East of Victory Pas
	811-121-007	Sec. 6, NE1/4 and NW1/4		
500 kV Gen-Tie Line				
USA 808	808-023-027	Sec. 13, W1/2SW1/4.	<u>T. 5 S., R. 15 E.</u>	Corn Spring,
	808-024-003	Sec. 14, SE1/4SE1/4.		Desert Center
	808-024-004	Sec. 23, N1/2NE1/4, SW1/4NE1/4,		
	808-054-003	SE1/4NW1/4, N1/2SE1/4 and		
	808-054-004	<u>SE1/4SE1/4.</u>		
	808-072-006	Sec. 24, S1/2SW1/4 and S1/2SE1/4.	<u>.</u>	
USA 811	<u>811-190-006</u>	Sec. 19, S1/2SW1/4 and S1/2SE1/4.	. <u>T. 5 S., R. 16 E.</u>	Corn Spring
	811-190-008	Sec. 20, S1/2SW1/4 and S1/2SE1/4.		<u>.</u>
	811-201-002	Sec. 28, N1/2NW1/4, W1/2NE1/4,	-	
	811-211-001	and NW1/4SE1/4.		
		Sec. 29, NE1/4NE1/4.		

2.3. Project Components

The proposed Project would consist of the following major components, which are described in greater detail in this section and illustrated on Figure 2-3 (Project Layout):

- Solar and Energy Storage Facility (990 acres of private land, 2,745 acres of BLM-administered land):
 - Solar array field, which may include thin-film PV panels, crystalline silicon panels, or any other commercially available PV technology. The proposed panel mounting system will depend on the PV panels ultimately selected but is expected to be single-axis trackers with a portrait module orienta-

tion. Either mono-facial or bi-facial modules could be used, and modules would either be mounted as single panels or stacked two high.

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- Power conversion stations on a concrete pad or steel skid for each 2 to 5 MW increment of generation, containing up to 6 inverters, a transformer, a battery enclosure, a switchboard 8 to 11 feet high, a shade structure (depending on meteorological conditions), and a security camera at the top of an approximately 20-foot wood or metal pole.
- System of 34.5 kV interior collection power lines located between inverters and <u>the</u> substations, located <u>either</u>-underground <u>or and</u> installed overhead on wood poles <u>for short segments due to</u> <u>engineering or other feasibility constraints</u>.
- At least one, and up to 2, oOnsite substation yards, each-with an onsite substation and associated equipment would require 25 acres within the Project site. Electrical transformers, switchgear, and related substation facilities would transform 34.5 kV medium-voltage power from the Project's delivery system to the 500 kV gen-tie line system.
- Upgrades to the Oberon <u>Substation</u><u>Switchyard</u>, including installation of a circuit breaker, disconnect switches, steel H-frame (transmission getaway), and controls upgrades, within its fenceline to accommodate interconnection of the Easley 500 kV gen-tie line.
- One oOperations and maintenance (O&M) building facilities near the main substation yard for Project security, employee offices, and parts storage separate buildings for substation and BESS operations. The O&M building would be constructed on a concrete foundation, approximately 6 feet by 20 feet in size and approximately 15 feet at its tallest point. The O&M facility would also include four to six 40 foot CONEX containers spaced about 15 feet apart with some of the space between covered by shade structures. The location of the O&M building within the Project site has not yet been determined, but it is anticipated to be near the main substation yard.
- 12 kV electrical distribution line would supply electricity to the O&M building and substation via a new overhead or underground 12 kV distribution line from the existing SCE distribution system adjacent to the solar facility site.³ In addition, approximately 0.25 mile of existing SCE 12 kV distribution line would need to be relocated to accommodate development of solar panels. The relocated distribution line would be located on BLM-administered land east of SR-177/Rice Road and would follow existing linear infrastructure.
- Supervisory Control and Data Acquisition System (SCADA) and telecommunications facilities to allow remote monitoring of facility operation and/or remote control of critical components. The fiber-optic or other cabling typically would be installed in buried conduit within the access road, leading to a SCADA system cabinet centrally located within the Project site or a series of appropriately located SCADA system cabinets constructed within the O&M building. External telecommunications connections to the SCADA system cabinets could be provided through wireless or hard-wired connections to locally available commercial service providers.
- Meteorological (MET) data collection system with up to <u>XX14</u> MET stations throughout the solar facility. Each MET station would be up to 10 feet tall with multiple weather sensors.
- Battery energy storage system (BESS), requiring up to 35 acres, located near the substation. Utilizing an AC-coupled battery or other similar storage system housed in electrical enclosures and capable of storing up to 650 MW of power for 2 to 4 hours. <u>The BESS could store power for up to 8 hours</u>, <u>depending on technology and final design</u>.

³ Electrical distribution systems carry power the last few miles from the transmission or sub-transmission grid to interconnect with consumers at a lower voltage. Distribution networks are distinguished from transmission networks by their voltage level and topology.

 <u>Standby power source</u>, if needed, is anticipated to be a diesel-powered backup generator rated at 45 kilowatts or approximately 61 horsepower, to power the site security system in the event of an outage.

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- Perimeter fencing would be installed around the boundary of the developed areas using chain-link perimeter fences.
- Newly constructed access roads from State Route (SR-) 177/Rice Road and throughout the interior of the Project limits. Ingress/egress would be accessed via locked gates located at multiple points.
- Nighttime security lighting limited to areas required for operation, safety, or security. Lighting would be directed away or shielded from major roadways or possible outside observers on adjacent properties. Lighting would be controlled by switches, motion detectors, etc., to light the areas only when required. Portable lighting may be used occasionally and temporarily for maintenance activities during operations.
- Site security system includes infrared security cameras, motion detectors, and/or other similar technology to allow for monitoring of the site through review of live footage 24 hours a day, 7 days a week. Such cameras or other equipment would be placed along the perimeter of the facility and/or at the inverters.
- New 500 kV Gen-tie Line (approximately 6.7 miles <u>[139 acres]</u>, within a 175-foot right-of-way [ROW] on BLM-administered land).

2.3.1. Photovoltaic Modules and Support Structures

The proposed solar facility would include several million solar panels; the final panel count would depend on the technology ultimately selected at the time of procurement. The ultimate decision for the panel types and racking systems described here would depend on market conditions and environmental factors, including the recycling potential of the panels at the end of their useful lives.

Types of panels that may be installed include thin-film panels, crystalline silicon panels, or any other commercially available PV technology. Solar thermal technology, in which solar energy is used to heat a liquid as an intermediate step to generating electricity, is not under consideration. The proposed panel mounting system will depend on the PV panels ultimately selected, but the Applicant is currently planning to use a single-axis tracker with a portrait module orientation. Either mono-facial or bi-facial modules could be used, and modules would either be mounted as single panels or stacked two high. A diagram of a typical single-axis tracker is shown in Figure 2-6 and 2-7.

The PV modules would be manufactured at an offsite location and transported to the Project site. Panels would be arranged in strings with a maximum reveal height of 14 feet at full tilt or slightly higher due to topography. Panel faces would be minimally reflective, dark in color, and highly absorptive.

For single-axis tracking systems, each row of panels would be up to 450 feet along a north/south axis. For fixed-tilt systems, a row consists of multiple tables (4 panels high by 10 panels wide, depending on design), each table approximately 65 feet along the east/west axis, with 1 foot spacing between each table. Spacing between each row would be a minimum of 4 feet. The solar panel array would generate electricity directly from sunlight, which would be collected, converted to alternating current, stored, and delivered to the on-site Project substation.

Structures supporting the PV modules would consist of steel piles (e.g., cylindrical pipes, H-beams, helical screws, or similar structures), which would be driven into the soil using pneumatic techniques such as a hydraulic rock hammer attachment on the boom of a rubber-tired backhoe excavator. The piles typically would be spaced 10 feet apart north-to-south, and 17 feet to 25 feet apart east-to-west with a 50% to 30% ground cover ratio (GCR). For a single-axis tracking system, piles typically would be installed to a

reveal height of approximately 4 feet above grade (but could be higher to compensate for terrain variations and clearance due to water/flooding). For single-axis tracking systems, following pile installation, the associated motors, torque tubes, and drivelines (if applicable) would be placed and secured. Some designs allow for PV panels to be secured directly to the torque tubes using appropriate panel clamps. For some single-axis tracking systems, a galvanized metal racking system, which secures the PV panels to the installed foundations, would be field-assembled and attached according to the manufacturer's guidelines. Tracking arrays would be oriented along a north-south axis with panels tracking east to west to follow the movement of the sun. The panels would be stowed at their maximum tilt (60 degrees) overnight. Panels may be temporarily stowed in a different angle position if needed due to mechanical or electrical maintenance or for high wind protection.

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Where excavations are required, the majority of proposed construction activities would be limited to less than 6 feet in depth; however, some excavations, such as those undertaken for the installation of the gentie structures and substation components, may reach depths of 45 feet or more.

2.3.2. Inverters, Transformers, and Electrical Collection System

The Project would be designed and laid out primarily in module blocks of 2 to 5 MW. Each module block would include a Power Conversion Station area measuring 40 feet by 25 feet. The color of the Power Conversion Station would be desert tan, depending on availability from the manufacturer, or treated BLM standard environmental color Carlsbad Canyon. As necessary, module blocks would be designed and sized as appropriate to accommodate the irregular shape of the Project footprint. The final module block sizes ultimately would depend on available technology and market conditions. Each 2 to 5 MW block would include a Power Conversion Station constructed on a concrete pad or steel skid centrally located within the PV arrays. Each Power Conversion Station would contain up to six inverters, a transformer, a battery enclosure, and an 8 to 11 feet high switchboard (see Figure 2-7 for the layout of a typical inverter skid). The pads would contain a security camera at the top of an approximately 20-foot wood or metal pole. If required based on site meteorological conditions, an inverter shade structure would be installed at each pad. The shade structure would consist of wood or metal supports and a durable outdoor material shade structure (metal, vinyl, or similar). The shade structure, if utilized, would extend up to 10 feet above the ground surface, and depending on the material used would be Carlsbad Canyon or a similar desert tan provided by the manufacturer.

Panels would be electrically connected into panel strings using wiring secured to the panel racking system. Underground cables would be installed to convey the direct current (DC) electricity from the panels via combiner boxes located throughout the PV arrays, to inverters located at the Power Conversion Station that would convert the DC to alternating current (AC) electricity. The output voltage of the inverters would be stepped up to the required collection system voltage at pad mount transformers located near the inverters within the Power Conversion Station.

The Applicant anticipates undergrounding the Easley 34.5 kV collector lines except for short segments where overhead lines may be required due to engineering or other feasibility constraints. The 34.5 kV collection cables would be buried underground in a trench about 4 feet deep, with segments installed overhead on wood poles to connect all of the solar facility development areas to the onsite substation, which would involve an overhead or underground crossing of SR-177/Rice Road to connect the solar panels located to the east of SR-177/Rice Road to the onsite substation. Thermal specifications require 10 feet of spacing between the medium-voltage lines, and in some locations closer to the onsite substation interconnection more than 20 medium-voltage AC lines could run in parallel.

If/where the collection system is installed overhead, up to approximately 30 wood poles located between 150 to 250 feet apart could be installed on the site in areas where several circuits would need to cross

each other. The typical height of the poles would be approximately 30 to 60 feet, with diameters varying from 12 to 20 inches (see Figure 2-9, Typical 34.5 kV Medium Voltage Line Structures).

2.3.3. Project Substation Yards

At least one, and up to 2, <u>A</u> Project substation yards would transform or "step up" the voltage from 34.5 kV to 500 kV. The area of each the substation and associated equipment would require approximately 25 acres within the Project site. The substation(s) would collect consolidated intermediate voltage cables from the medium voltage (MV) and PV collector system. Electrical transformers, switchgear, and related substation facilities would be designed and constructed to transform medium-voltage power from the Project's delivery system via the new gen-tie to the Oberon SubstationSwitchyard, at which point Easley solar-generated power would be transmitted to the SCE Red Bluff Substation via the <u>existing</u> Oberon 500 kV gen-tie line, which is currently under construction and anticipated to be online by the end of 2023 (see Figure 2-2).

The internal arrangement for each substation would include:

- Power and auxiliary transformers with foundations
- Pre-fabricated control buildings to enclose the protection and control equipment, including relays and low-voltage switchgear (each building is approximately 2<u>40</u> feet by 4<u>60</u> feet, and 10-20 feet high);
- Metering stand;
- Capacitor bank(s);
- Circuit breakers⁴ and disconnect switches;
- One microwave tower adjacent to the control building comprising a monopole structure up to 100 feet in height mounted with an antenna up to 5 feet in diameter;
- Dead-end structure(s) up to 199 feet in height to connect the Project substation to the grid; and
- One or more Control Buildings.

The substation area would be graded and compacted to an approximately level grade, although the substation pad may be elevated a few feet pending detailed hydrological study of the area. Concrete pads would be constructed on site as foundations for substation equipment, and the remaining area would be graveled to a maximum depth of approximately 12 inches. Because each of the substation transformers would contain mineral oil, the substation would be designed to accommodate an accidental spill of transformer fluid by the use of containment-style mounting. <u>Each-The</u> substation <u>area</u> would be surrounded by an up-to 7-foot-high chain-link fence topped with one foot of barbed wire <u>or an up to 7-foot-high</u> <u>concrete masonry unit (CMU), concrete, or brick wall</u>. Each of the dead-end structures would require foundations excavated to a depth of 20 feet or more.

2.3.4. 500 kV Gen-tie Transmission Line

The Project would include an approximate 6.7-mile 500 kV gen-tie line starting at the onsite substation located on private property (APN 808-023-018). Just south of the substation, the 500 kV gen-tie line would enter the Oberon Renewable Energy Project site and would be located on BLM-administered land for the remainder of the route. The gen-tie line would exit the substation and travel approximately 0.2-mile due south to cross SR-177/Rice Road, where it would turn southwest to parallel the eastern side of SR-177/Rice Road for 1.1 miles before turning east and then southeast for nearly 1 mile to meet BLM Open Route DC379. The line would parallel the north side of BLM Open Route DC379 and the existing Desert Sunlight

⁴ In accordance with CARB requirements, use of SF6 equipment will be avoided to the greatest extent feasible.

and Desert Harvest 230 kV gen-tie lines for 3.8 miles before turning south for 0.6 miles to interconnect to the Oberon SubstationSwitchyard.

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The Oberon Substation and Switchyard area was constructed by Intersect Power anticipating a potential future interconnection of other projects. In order for the Easley gen-tie line to interconnect, upgrades to the Oberon Switchyard would be required within its fence line to accommodate interconnection of the Easley 500 kV gen-tie line. The upgrades are expected to include installation of:

- 500 kV Circuit Breaker;
- 500 kV Disconnect Switches (2);
- <u>Steel H-Frame (transmission getaway); and</u>
- Controls Upgrades.

From the Oberon <u>SubstationSwitchyard</u>, the solar power generated by the Easley Project would be transmitted to the SCE Red Bluff Substation via the Oberon 500 kV gen-tie line. The Project 500 kV gen-tie line would be located within a 175-foot ROW, across BLM-administered lands. Conductor span lengths generally range from a minimum of 400 feet to a maximum of 2,200 feet for 500 kV lines.

The Project gen-tie line would be constructed with either-monopoles, lattice steel structures, or wooden H-frame poles. Gen-tie structures and would be on average 120 feet tall, with a maximum height up to approximately 199 feet where the proposed gen-tie line would cross above existing transmission lines. The total number of gen-tie support structures would be approximately 25-45 structures with the exact number to be determined by the final alignment of the gen-tie line. See Figure 2-10 for a depiction of typical 500 kV gen-tie line structures.

The BLM is coordinating with the Department of Defense (DoD) regarding concerns about potential interference of the 500 kV gen-tie structures with low-level military flight paths in the Project area. Depending on the outcome of the BLM-DoD consultation, infrared obstruction lighting may be installed on structures over 180 feet high that are located in areas where the new structures would be taller than existing nearby structures. While it is expected that all gen-tie structures would be under 180 feet, for the purposes of this environmental analysis, it is assumed that no more than 6 structures may require up to two infrared lights installed in a manner to ensure an unobstructed view of one or more infrared lights by a military pilot. Note, that because any required lighting would be infrared, it would not be visible to the human naked eye.

2.3.5. Operations and Maintenance Building Facilities

New O&M facilities would be constructed at the Project site. The facilities would be designed for Project security, employee offices, and parts storage with separate operations buildings for the solar facility and BESS. The O&M facility would include the following components: two O&M office buildings (which may share a wall), each approximately 3,000 square feet and 15 feet at the tallest point, up to 16 storage CONEX containers for spare parts covering a total area of approximately 7,500 square feet, laydown yards, and a parking area. The O&M area would also include a shade canopy not to exceed 20 feet in height. The O&M building would include a 60-foot by 20-foot building plus four to six 40-foot CONEX containers, each separated by 15 feet and with some of the spaces covered by a shade structure. The O&M building would be approximately 15 feet at its tallest point. The O&M buildings may be constructed on a concrete foundation. A diagram of a typical O&M building floor plan is shown in Figure 2-11.

2.3.6. SCADA and Telecommunications Facilities

The facility would be designed with a comprehensive Supervisory Control and Data Acquisition System (SCADA) system to allow remote monitoring of facility operation and/or remote control of critical compo-

nents. The fiber-optic or other cabling required for the monitoring system would typically be installed in buried conduit, leading to a SCADA system cabinet centrally located within the Project site or a series of appropriately located SCADA system cabinets constructed within the O&M building. External telecommunications connections to the SCADA system cabinets could be provided through wireless or hard-wired connections to locally available commercial service providers. The Project's SCADA system would inter-connect to this fiber-optic network at the onsite substation and may include an up to 50-foot telecom pole.

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The California Independent Systems Operator (CAISO) and Project's interconnecting utility, SCE, require that 500 kV power plant interconnection facilities contain three fiber-optic communications lines -- one primary and two redundant. They must be separate to ensure full and true redundancy.

Therefore, the Easley Project requires three paths of communication between the substations with at least 30 feet of separation between each line. As a result, two of those communication lines would be attached on the 500 kV gen-tie line transmission structures. A third fiber-optic line would be installed underground, likely in the gen-tie line access road to accommodate the separation requirements and minimize operational visual impacts. The underground fiber-optic line would be installed in a trench approximately 1 foot wide by 2 feet deep.

2.3.7. Battery Energy Storage System

Battery energy storage systems (BESS) can assist grid operators in more effectively integrating intermittent renewable resources into the statewide grid. The Project could include, at the Applicant's option, a battery or flywheel-storage system capable of storing up to 650 MW of electricity for 4 hours,⁵ requiring up to 35 acres that would be located near the substation or inverters (see Figure 2-12 for a photograph of a typical BESS enclosure). If provided, the storage system would consist of battery or flywheel-banks housed in electrical enclosures and buried electrical conduit. The battery system would be located near the Project switching station to facilitate interconnection and metering. Alternatively, smaller individual BESS systems may be located near each inverter.

Up to 300 Over 500 electrical enclosures ("Megapacks") would be installed in six 4-foot storage containers, each measuring approximately 40 feet by 8 feet by 8.5 feet high would be installed , on concrete foundations designed for secondary containment. The Project could use any commercially available battery technology, including but not limited to lithium ion, zinc, lead acid, vanadium, sodium sulfur, and sodium or nickel hydride.

Battery systems would require air conditioners or heat exchangers and inverters. In addition, a 10-<u>three</u> <u>15</u>,000-gallon water tank<u>s are is</u>-anticipated for each BESS unit/area to provide fire safety.

The BESS would comply with the current California Fire Code (CFC), which governs the code requirements to minimize the risk of fire and life safety hazards specific to battery energy storage systems used for load shedding, load sharing and other grid services (Chapter 12 Section 1206 of the 2019 CFC). In accordance with the CFC, the battery enclosure and the site installation design are all required to be approved by the State Fire Marshal.

In addition to the BESS containers, the BESS area would include one double-wide office trailer (60 feet by 24 feet) with a shade canopy (no more than 20 feet high), a staging area, a clearance area, and a parking area, which are discussed in Section 2.3.5 (Operations and Maintenance Facilities).

2.3.8. Meteorological Data Collection System

The Project would include a meteorological (MET) data collection system with up to 14 MET stations, such as a Soil Climate Analysis Network (SCAN) station or other applicable technology. Each MET station would

⁵ The BESS could store power for up to 8 hours, depending on technology and final design.

have multiple weather sensors: a pyranometer for measuring solar irradiance, a thermometer to measure air temperature, a barometric pressure sensor, and wind sensors to measure speed and direction. The 4-foot horizontal cross-arm of each MET system would include the pyranometer mounted on the lefthand side and the two wind sensors installed on a vertical mast to the right. The temperature sensor would be mounted inside the solar shield behind the main mast. Each sensor would be connected by cable to a data logger inside the enclosure.

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2.3.9. Access Roads

Figure 2-2 and Figure 3.18-1 (Project Roads and Access) illustrate the proposed driveways access roads to the solar facility site from SR-177/Rice Road and Kaiser Road, as well as interior dirt access roads within the solar facility site.

2.3.9.1. Main Access

Access to the Project site would be provided from SR-177/Rice Road through multiple primary and secondary driveway entrances and from Kaiser Road. BLM open routes and agricultural roads would also be improved. If building structures, such as the O&M Building, and associated access roadways would be within 1,320 feet of State Route 177, secondary access is not required by the Riverside County Fire Department.

All new and improved access roads would be at least 24 feet wide with a two-foot-wide shoulder on each side, for a total width of approximately 30 feet, including allowances for side slopes and surface runoff control. Construction of the access road segments would include compacting subsurface soils and placing a four-inch-thick layer of asphalt concrete over a 6-inch-thick layer of compacted aggregate base.

2.3.9.2. Internal Roadway System

The Project's on-site roadway system would include a perimeter road surrounding the solar panels within the development fencelines, access roads, and internal roads. Inverters are provided dedicated access roads for maintenance and emergency services, including turnarounds that would accommodate standard fire and emergency vehicle standards.

The perimeter road and main internal access roads and gates would be consistent with the California Building Code and County requirements. These roads would be surfaced with gravel, compacted dirt, or another commercially available surface and would provide a fire buffer, accommodate Project O&M activities, such as cleaning of solar panels, and facilitate on-site circulation for emergency vehicles.

Dust control would be implemented as necessary to mitigate dust plumes. If wildlife-friendly fencing is installed during operation and following substantial reestablishment of vegetation, the roadway system would be specially designed updated to accommodate the safe passage of desert tortoise and other wildlife across the site since desert tortoise exclusion fencing would be removed in those areas. If gravel is used for road surfaces, portions of road lengths would remain free of gravel in strategic locations to facilitate tortoise movement. Culverts may also be placed along internal roads.

2.3.10. Solar Facility Site Security, Fencing and Lighting

2.3.10.1. Controlled Access

Multiple points of ingress/egress would be accessed via locked gates located at multiple points. Each Project unit would have at least one point of access. The driveway aprons off of SR-177/Rice Road and approximately 100 feet of roadway (or as dictated by Caltrans) would be paved to prevent trackout.

2.3.10.2. Fencing

The solar facility would be enclosed with fencing that meets National Electric and Safety Code (NESC) requirements for protective arrangements in electric supply stations. The boundary of the Project components (i.e., solar arrays, substation, BESS) would be secured by at least 6-foot-high chain-link perimeter fences, likely topped with one foot of three-strand barbed wire. The fence would be set approximately 10 to 100 feet (average of 20 feet) from the edge of an array. Desert tortoise exclusion fencing would be constructed along the bottom of the security fence for Project construction. Desert tortoise exclusion fencing would remain in place during operations, except <u>it would be removed</u> in places where wildlife-friendly fencing may be implemented over a portion of the solar facility site, as described in Section 4.6 (Wildlife-Friendly Fencing).

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Project infrastructure would maintain 20-foot setbacks from external private land property boundaries, and internally, panel infrastructure would be set back 5 feet on the private side from public/private parcel boundaries. External fencing would be set back 5 feet from all external parcel boundaries. Linear features, such as fences, medium voltage collector line cabling, internal roadways, etc., may cross public/private property boundaries.

2.3.10.3. Lighting

Care would be taken to prevent undue light pollution from the nighttime security lighting. Lighting at high illumination areas is not required on a continuous basis so would be controlled by switches, motion detectors, etc., to light areas only when required. All lighting would be shielded and directed downward to minimize the potential for glare or spillover onto adjacent properties and major roadways.

To reduce offsite lighting impacts, lighting at the facility would be restricted to areas required for safety, security, and operation, such as the O&M building. Security lights would use motion sensor technology that would be triggered by movement at a human's height, as not to be triggered by smaller wildlife. The level and intensity of lighting during operations would be the minimum needed. Portable lighting may be used occasionally and temporarily during construction and for maintenance activities during operations, such as emergency work that must occur at night.

2.3.10.4. Other Security Measures

Nighttime activities are anticipated to be minimal during Project operations. Offsite security personnel could be dispatched during nighttime hours or could be on site, depending on security risks, emergency maintenance requirements, and operating needs. Infrared security cameras, motion detectors, and/or other similar technology would be installed to allow for monitoring of the site through review of live footage 24 hours a day, 7 days a week. Such cameras or other equipment would be placed along the perimeter of the facility, at the inverters, laydown areas and/or pre-fabrication areas. Security cameras located at the inverters would be posted on poles approximately 20 feet high.

2.3.11. Water Requirements During Construction

Water for construction needs and related dust control would be obtained from either an onsite or offsite groundwater wells or purchased off site. Water tanks would likely be set up by any groundwater wells and near the O&M building.

During the construction phase, it is anticipated that a total of up to $\frac{1,08}{00}$ acre-feet of water would be used for dust suppression (including truck wheel washing) and other purposes during the 20-month

construction timeframe.⁶ To reduce water usage, calcium chloride may be applied to dirt roadways for dust abatement purposes.

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During construction, restroom facilities would be provided by portable units to be serviced by licensed providers.

2.3.12. Waste Generation

Waste would be stored in a locked container within a fenced and secure temporary staging area. As there would be regulated hazardous materials on site, storage procedures would be dictated by a Hazardous Materials Plan that would be developed prior to construction. Spill prevention measures and secondary containment would be implemented as part of the Project where warranted; however, strict compliance under 40 CFR 112 or CWA Section 311 would not be required, because there would be no discharges to waters of the U.S. (i.e., navigable waterways or shorelines).

Trucks and construction vehicles would be serviced from offsite facilities. The use, storage, transport, and disposal of hazardous materials used in construction of the facility would be carried out in accordance with federal, state, and county regulations. No extremely hazardous substances (i.e., those governed pursuant to Title 40, Part 355 of the Code of Federal Regulations) are anticipated to be produced, used, stored, transported, or legally disposed of as a result of Project construction. Material Safety Data Sheets for all applicable materials present on site would be made readily available to on-site personnel.

Construction materials would be sorted on site throughout construction and transported to appropriate waste management facilities. Recyclable materials would be separated from non-recyclable items and stored until they could be transported to a designated recycling facility. Recycling would be in accordance with application California state requirements.⁷ Wooden construction waste (such as wood from wood pallets) would be sold, donated, recycled, or chipped and composted. Other compostable materials, such as vegetation, might also be composted offsite. Non-hazardous construction materials that cannot be reused or recycled would likely be disposed of at county landfills. Hazardous waste and electronic waste would not be placed in a landfill, but rather would be transported to a hazardous waste handling facility (e.g., electronic-waste recycling). All contractors and workers would be educated about waste sorting, appropriate recycling storage areas, and how to reduce landfill waste.

2.3.13. Fire Safety During Construction

Fire protection would be provided to limit risk of personnel injury, property loss, and possible disruption of the electricity generated by the Project. Fire protection would include minimizing flammable materials in the solar field, such as vegetation.

A Fire Management and Prevention Plan would be prepared for construction, operation, and decommissioning of the facility. The plan would include measures to safeguard human life, preventing personnel injury, preserve property and minimize downtime due to fire or explosion. Of concern are fire-safe construction, including during any welding, reduction of ignition sources, control of fuel sources, availability of water, and proper maintenance of firefighting systems.

Vegetation would be cleared for construction of the drainage controls, including berms if needed. Construction of the Project would involve preparation, installation, and testing of electrical components such as cables, inverters, wiring, modules, and a transformer. Wires would be buried at a minimum of 18 inches

⁶ The Applicant has updated its construction water requirements based on water usage data obtained following construction of other projects in the area, such as the Oberon Renewable Energy Project. The analysis in EIR Section 3.11 (Hydrology and Water Quality) and EIR Appendix G (Water Supply Assessment) conservatively still assumes use of 1,000 AF during construction.

⁷ As of January 1, 2020, CALGreen requires covered projects to recycle and/or salvage for reuse a minimum 65% of the <u>nonhazar-dous construction and demolition waste or meet a local construction and demolition waste management ordinance, whichever is more stringent.</u>

below grade, minimizing the potential for faulty wiring to ignite a fire. All electric inverters and the transformer would be constructed on concrete foundation structures or steel skids and tested prior to use to ensure safe operations and avoid fire risks. Prior to wire setup, work areas would be cleared of vegetation to reduce the risk of ignition from any vehicles or equipment. Small quantities of hazardous chemicals such as fuels and greases would be stored at the site during construction. Due to the remote location of the Project site, if on-site fuel tanks are utilized for equipment refueling, they are assumed to be no larger than 1,000 gallons each and they would comply with all applicable regulations. All hazardous chemicals would be stored in appropriate containers in an enclosed and secured location with secondary containment to prevent leakages and accidental fires.

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During construction, a fire-suppression system may be placed in service if required by the County or BLM Fire. Fire extinguishers and other portable fire-fighting equipment would be available onsite, as well as additional water for use at the O&M facility. These fire extinguishers would be maintained in accordance with local and federal Occupational Safety and Health Administration (OSHA) requirements.

Locations of portable fire extinguishers would include, but not be limited to, office spaces, hot work areas, flammable storage areas, and mobile equipment such as work trucks and other vehicles. Fire-fighting equipment would be marked conspicuously and be accessible. Portable equipment would be routinely inspected, as required by local and federal laws, ordinances, regulations, and standards, and replaced immediately if defective or needing charge.

2.4. Construction Activities

2.4.1. Construction Schedule and Workforce

Construction is anticipated to require approximately 20 months, depending on Power Purchase Agreement (PPA) and financing requirements. The on-site workforce would consist of laborers, craftsmen, supervisory personnel, supply personnel, and construction management personnel. The onsite workforce is expected to reach its peak of approximately 530 individuals with an average construction-related onsite workforce of 320 individuals.

Preconstruction surveys, including desert tortoise exclusion fencing installation and clearance surveys, would be conducted, followed by construction of the main access road, security fencing around solar facility site, clearing and construction of a laydown yard, site grading and preparation, construction of the O&M building, parking area, and pad mounts for transformers. Construction would continue with the installation of temporary power, construction of on-site roads, construction of the Project substation, and assembly and installation of panel blocks and wiring.

Construction would occur between the hours of 6:00 a.m. and 7:00 p.m. Monday through Friday for up to a maximum of 13 hours per day. During summer months, construction may begin earlier to minimize work during the hottest periods of the day. Likewise, limited, targeted night work may also be required by the interconnecting utility or for similar electrical work. Weekend construction work is not expected to be required on a regular basis, but may occur on occasion, depending on scheduling considerations.

2.4.2. Ground Disturbance

Table 2-2 provides the details of the ground disturbance required by construction, operation, and decommissioning of the solar and BESS facility, gen-tie line, and access roads on BLM and private land. Ground disturbance estimates would be refined during final engineering.

Component	Temporary Disturbance (acres)	Permanent Disturbance (acres)
Solar & BESS Facility	θ	2,050.5 <u>1,881.3</u>
Exterior Components (Roads & Collector/Distribution Lines)	θ	4 0.7 <u>71.8</u>
500 kV Gen-tie Line (monopole structures <u>, conductor pull and</u> tensioning sites, guard structures at road/line crossings, spur roads)	18	0.6-41.5 (175-ft ROW: 138.3 acres)
Conductor Pull & Tensioning Sites (outside of structure erection areas)	4 6	θ
Guard Structures at Road/Line Crossings	1.8	θ
Spur Roads	θ	0.04
TOTAL	65.8 acres	∼ 2,100 1,995 acres

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Table 2-2. Disturbance Estimates for Easley Renewable Energy Project

Ground Disturbance Assumptions

 Permanent disturbance at each 500 kV pole location would be ~0.03 acre. Up to approximately 20.45 gen-tie structures would be located on BLM-administered land within a 175-foot ROW. Final gen-tie line impact acreages will be less than the 175-footwide ROW shown in the table, as impacts would occur only at structures and spur roads. Furthermore, structures would be micro-sited to minimize impacts to sensitive habitats and resources to the maximum extent feasible.

• Span length for the 500 kV line would vary from 400 to 2,200 feet.

• Temporary structure erection is 200 feet by 200 feet (~0.9 acre) at each structure location.

• Temporary pull and tension sites: 600 feet long by 200 feet wide (~2.8 acre); Angle poles sites: 1,000 feet long by 200 feet wide (~4.6 acre) Temporary disturbance for pull and tensioning generally extends past each dead-end or angle structure. Necessary for conductor stringing equipment and placement of wire reels (approximately 10 wire pulling sites are needed, most of which are angle poles). For all but angle structures, temporary disturbance for pull and tensioning would occur within the 175-foot ROW or extend into the solar facility development footprint.

• New spur roads would typically have circle-type turnaround areas averaging 450 square feet around each structure location.

Guard Structures: 100 feet wide by 100 feet long (~0.23 acre). Placed on either side of existing roads, crossings of existing lower voltage distribution or transmission lines, or other obstacles to maintain vertical clearance during construction activities only (approximately 8 guard structures needed).

• Temporary trench width per 34.5 kV line: 40-foot width.

2.4.3. Pre-Construction Activities

Pre-construction activities at the Project site would be undertaken to prepare the site and crews for construction. These pre-construction activities are listed below.

2.4.3.1. Pre-Construction Surveys

Qualified biologists would conduct pre-construction surveys for sensitive species. Sensitive resource areas would be flagged or fenced so they are avoided or appropriately managed during construction. If necessary, wildlife, and certain types of qualifying cacti would be removed from the site and relocated so that construction and necessary conservation work may be conducted in the work area. Species relocation areas would be established in consultation with U.S. Fish and Wildlife Service (USFWS), California Department of Fish and Wildlife (CDFW), BLM, and County staff.

2.4.3.2. Geotechnical Evaluation

The Applicant would conduct a geotechnical evaluation to gather information on the physical properties of the soil and rock for incorporation into the design of the facility. Subsurface scientific testing and analysis would include geotechnical borings, trenching, and pile testing along the routes. Geotechnical work may be conducted in advance of issuance of an executed ROW Grant on BLM-administered land under a scientific collection permit from the BLM. In all cases, biological and cultural resources surveys would

occur in advance of any ground-disturbing activities, and environmental monitoring would occur during such activities.

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2.4.3.3. Construction Crew Training

Prior to construction, all contractors, subcontractors, and Project personnel would receive a County and BLM approved Worker Environmental Awareness Program (WEAP) training, which would emphasize the following:

- Appropriate work practices necessary to effectively understand and implement the environmental resource commitments in the project description;
- Implementation of the mitigation measures;
- Compliance with applicable environmental laws and regulations;
- How to avoid and minimize impacts; and
- Understanding the importance of environmental resources and the purpose and necessity of protecting them.

2.4.3.4. Surveying, Staking, and Flagging

Pre-construction field survey work would include identifying precise locations of the site boundary, security fence, and ROW boundary. These features would be subsequently staked in the field. No paint or permanent discoloring agents would be applied to rocks or vegetation to indicate survey or construction limits. All off-road vehicle travel across BLM-administered land would be monitored by qualified biologists, archaeologists, and tribal monitors, as appropriate.

2.4.3.5. Desert Tortoise Fence Installation

A desert tortoise exclusion fence, if required, would be installed per the USFWS protocol. The permanent desert tortoise fence would be integrated with the site security fence for maximum durability. Fence installation would be monitored by qualified biologists, archaeologists, and tribal monitors, as appropriate. Following installation, clearance surveys would be conducted.

2.4.3.6. Biological Clearance Surveys

Desert tortoise, mammal, and burrowing owl <u>pre-construction</u> clearance surveys would be conducted following within the fence right-of-way prior to fence installation, and clearance surveys would be conducted within the fenced construction area after the tortoise fence is enclosed to ensure no tortoises are in the work area. Mammals and owls would be passively relocated using one-way doors or other techniques. Desert tortoise individuals within the solar facility fence line would be actively <u>relocated or</u> translocated to an approved site pursuant to an approved Translocation Plan to be developed in consultation with USFWS and the CDFW.

Due to its low elevation, the Chuckwalla Valley historically becomes warmer much earlier than the majority of the desert tortoise range in higher elevation. Clearance surveys are challenging to complete within the limited temperature constraints during the protocol survey period since ambient temperatures often exceed 100 degrees Fahrenheit before the end of April and into October in Chuckwalla Valley. Therefore, temperature thresholds for clearance surveys may be up to 40 degrees C (104 degrees F) in areas that do not have a high modelled desert tortoise occupancy; and/or historical data did not have active desert tortoise sign within the area or in immediate adjacent areas; and/or are adjacent to SR-177/Rice Road, with a higher level of human disturbances. If a desert tortoise is found within the fenced areas during clearance surveys when temperatures are beyond 35 degrees C (95 degrees F), the desert tortoise would be observed for the day by a biologist (at a distance with binoculars) until dusk when it settles. It will be located at dawn again and observed until it can be handled within the proper temperature to affix a transmitter by an authorized biologist. Any handling of desert tortoises would always be below the temperature of 95 degrees F.

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2.4.3.7. Establishment of Construction Staging Area

Several staging areas would be established within the solar facility site boundaries for storing materials, construction and pre-fabrication equipment, and vehicles. The staging areas would be surveyed and monitored by qualified biologists, archaeologists, and tribal monitors, as appropriate.

2.4.4. Construction Phase 1: Site Preparation

2.4.4.1. Construction-Related Grading and Vegetation Management

Mass grading would not be conducted on the Project site. Several solar and storage facility locations would require specific ground treatments, but this represents a minority of the ground surface of the facility. The substation, storage container, O&M facility, laydown yards, pre-fabrication areas, and internal and external road locations would require mowing, grubbing, grading and compaction. Inverter station locations would require light grubbing. The solar array areas would require mowing and rolling of woody vegetation to a height of 12 inches in an effort to preserve vegetation and provide for better and faster post-construction site revegetation. In some locations, root balls would need to be removed, which would require light grading. Woody vegetation, such as palo verde trees, that are in areas adjacent to infrastructure where it does not impact solar panel performance would be partially cut, leaving the lower trunk intact to allow regrowth of branches and leaves. Certain areas of the site with highly irregular topography that provide important hydrologic functions to the site would be avoided by Project design. Other irregular areas would be leveled or smoothed to provide for construction access and installation.

Best management practices <u>(BMPs)</u> identified in the Project's Fugitive Dust Control Plan would be implemented during all grading and vegetation removal activities, including the possibility of using mulching. Additional best management practices (BMPs) for site preparation and construction are also listed in Section 2.7 (Applicant Proposed Measures and Best Management Practices) to address concerns raised during the Draft EIR comment period. To reduce water usage, calcium chloride or a similar soil binder may be applied to dirt roadways for dust abatement purposes.

The site cut and fill would be approximately balanced, as shown in Table 2-3 (final design may require slightly different volumes). The Project would require some import of non-native materials, but minimal import/export would be necessary. The substation and BESS would be graded to an elevation above the surrounding grade to avoid flooding and excavated soils (net export) would likely be used at the to create a balanced cut/fill for the project. On-site pre-assembly of trackers would take place in the staging area. Temporary laydown/prefabrication areas would be located within the solar facility footprint, gen-tie work areas, and/or Oberon Substation/Switchyard yard.

Project Component	Approximate Acreage	Cut/Fill (CY)	Comments
Solar Arrays, including Access Roads	~2,000	Balanced	The solar array areas would be mowed and grubbed, and more-or-less leveled or smoothed to provide for construction access and installation.
Substation	25	40,333 CY* Import	These sites would be graded and backfilled to an eleva- tion above the surrounding grade to avoid flooding. In

Table 2-3.	Estimated Cut and Fill Volumes	(Pending Final Engineering)
	Estimated cat and the volumes	

Project Component	Approximate Acreage	Cut/Fill (CY)	Comments
BESS	35	56,467 CY* Import	addition to imported base, excess soils from storm water basin excavations would be used as well.
0&M	10	Balanced	The O&M site would be graded and compacted.
Storm Water Basins	n/a	Export	Excavated soils would be relocated and used in the substation/BESS areas.
Temporary Parking & Laydown	5	Balanced	Temporary parking and laydown areas would be graded and compacted.

*Estimated base, assuming 12-inch depth.

2.4.4.2. Erosion and Sediment Control and Pollution Prevention

A Stormwater Pollution Prevention Plan (SWPPP) or SWPPP-equivalent document would be prepared by a qualified engineer or erosion control specialist, and once approved by the State Water Resources Control Board and a BLM hydrologist, would be implemented before and during construction. The SWPPP would reduce potential impacts related to erosion and surface water quality during construction activities and throughout the life of the solar and storage facility. It would include Project information and best management practices (BMPs). The BMPs would include stormwater runoff quality control measures, management for concrete waste, stormwater detention, watering for dust control, and construction of perimeter silt fences, as needed.

2.4.5. Construction Phase 2: Photovoltaic Panel System

Construction of the O&M building and the 12 kV distribution line connection <u>(including relocation of existing distribution line(s))</u> would be part of the initial solar facility development in tandem with the beginning of PV module construction. The construction activities associated with the distribution line would be similar to the medium-voltage collector lines described below. <u>Dismantling and removal of existing SCE distribution line for relocation would be similar to the process described for decommissioning.</u> The poles and conductor would be disposed of as described in Section 2.3.12 (Waste Generation). The site of the O&M building would be cleared and graded, followed by installation of a concrete foundation.

All or a portion of the PV panel arrays may be pre-assembled in a fabrication assembly plant located on site.

The structures supporting the PV module arrays would consist of steel piles (e.g., cylindrical pipes, H beams, or similar) driven into the soil using pneumatic techniques, similar to a hydraulic rock hammer attachment on the boom of a rubber-tired backhoe excavator. The piles typically are spaced 10 feet apart in the north-south direction and 22 feet apart in the east-west direction. For a single-axis tracking system, piles typically would be installed to a reveal height of approximately 4 to 6 feet above grade, while for a fixed-tilt system the reveal height would vary based on the racking configuration specified in the final design. For single-axis tracking systems, following pile installation the associated motors, torque tubes, and drivelines (if applicable) would be placed and secured. Some designs allow for PV panels to be secured directly to the torque tubes using appropriate panel clamps. For some single-axis tracking systems and for all fixed-tilt systems, a galvanized metal racking system, which secures the PV panels to the installed foundations, would be field-assembled and attached according to the manufacturer's guidelines.

2.4.6. Construction Phase 3: Inverters, Transformers, Substations, Electrical Collectors, & BESS

Direct current (DC) lines would be installed in conduits. The lines would be collected and combined and routed to the inverters to be converted to alternating current (AC) and stepped up to 34.5 kV via a pad-

mount transformer. Within the arrays this wiring would typically be hung from the racking equipment. Final sections would be connected to the inverters via an underground stub. Trenches for the collector lines would be run from the inverters to the onsite Project substation.

Electrical inverters would be placed on steel skids or concrete pads, elevated as necessary with steel piles to allow for runoff to flow beneath the inverter structures. Commissioning of equipment would include testing, calibration of equipment, and troubleshooting. The substation equipment, inverters, collector system, and PV array systems would be tested prior to commencement of commercial operations. Upon completion of successful testing, the equipment would be energized.

Medium-voltage (34.5 kV) cabling from the inverters to the 34.5 kV/500 kV substation would be installed either underground, or overhead along panel strings in a CAB⁸ system to avoid the need for underground cabling and trenching. At the combiner box, cables would be combined and routed overhead on wood poles roughly 30 to 50 feet high, depending on voltage.

Underground cables would be installed using direct-bury equipment and/or ordinary trenching techniques, which typically include a rubber-tired backhoe excavator or trencher. An underground 34.5 kV line would likely be buried at a minimum of 36 inches below grade, but could go as deep as 6 feet and include horizontal drilling to avoid environmental resources. Shields or trench shoring would be temporarily installed for safety to brace the walls of the trench, if required based on the trench depth. After the excavation, cable rated for direct burial would be installed in the trench, and the excavated soil would be used to fill the trench and compress to 90 to 95 percent maximum dry density or in accordance with final engineering.

For any overhead 34.5 kV line, pole foundations would be excavated to an average depth of approximately 10 feet. Installation would consist of the following basic steps:

- Deliver new pole to installation site;
- Auger new hole using line truck attachment to a depth of up to 35 feet and include concrete supports depending on final engineering;
- Pour concrete foundation;
- Install bottom pole section by line truck, crane, or helicopter; and
- Install top pole section(s) by line truck, crane, or helicopter, if required.

Once poles are erected, the 34.5 kV conductor would be strung generally using a wire truck, crane and/or helicopter, splicing rig and puller from conductor pull and tension sites at the end of the power line. Each conductor would be pulled into place at a pre-calculated sag and then tension-clamped to the end of each insulator using sag cat and static truck/tensioner equipment. The sheaves and vibration dampers and accessories would be removed once installation is complete.

Substation areas would be excavated for the transformer equipment and control building foundation and oil containment area. The site area for the substation would be graded and compacted to approximately level grade. Foundations for the substation would be formed with plywood and reinforced with structural rebar. Concrete pads would be constructed as foundations for substation equipment, and the remaining area would be graveled. Concrete for foundations would be brought on site from a batching plant in Blythe or would be produced by a portable batch plant on site as necessary.

The energy storage facility must be nearly level; therefore, the proposed BESS area would be cleared and graded. Site preparation also would include construction of drainage components to capture and direct stormwater flow around the BESS facility. Once the concrete foundations are in place for the BESS, the

⁸ Cambria Association for the Blind and Handicapped produces overhead cable management systems comprised of cable trays, hooks, and other devices. The sale of CAB Products helps support its services to persons with disabilities.

batteries, inverters, and other electrical equipment would be mounted and installed. Equipment would be delivered to the site on trucks.

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2.4.7. 500 kV Gen-tie Line Construction

The Project gen-tie line would be located within a 175-foot ROW, and would be primarily overhead, but undergrounding could be an option based on design constraints, existing utilities, and resources. The overhead gen-tie line structure foundations would be excavated to a depth of 45 feet or more and include concrete supports depending on final engineering. Gen-tie structures would be on average 120 feet tall but could be as tall as 199 feet where the proposed gen-tie line would cross above existing transmission lines and would be composed of lattice steel structures, steel H-frames, and-monopole steel structures. A 3-phase 500-kV bundled set of conductors would be strung along the structures, and the line would be used to support overhead construction. Drones may also be used to support gen-tie and medium voltage collector line construction, as described in Section 2.5.5 (Drone Use).

During stringing of the conductor, pull and tensioning and temporary work areas may be required outside of the 175-foot ROW. The temporary disturbance area for each structure is 200 feet by 200 feet on the generally flat terrain of the Project area. The average size of pull and tension sites is 600 feet long by 200 feet wide; however, angle poles sites can increase to 1,000 feet by 200 feet. Foundation sizes (permanent disturbance) would be 30 to 40 feet in diameter depending on topography.

The Applicant would also perform any required upgrades to the Oberon <u>Substation-Switchyard</u> during this time.

2.4.7.1. Helicopter Use

Helicopters would likely be used for wire stringing activities including hanging travelers, pulling conductor and optical ground wire (OPGW), dead-end activities, and the installation of bird diverters for the gen-tie line. There would be one Helicopter Landing Zone (HLZ), likely located within a disturbed area of the Project site, such as in the project substation laydown yard. A water truck would be onsite to water the HLZ prior to helicopter activities to prevent fugitive dust from rotor wash. Helicopter refueling will be done within the HLZ from a construction vehicle equipped as a fuel truck. Refueling may also occur at the Desert Center Airport or another regional airport, where the helicopter may be hangered overnight, before and/or after each day the helicopter is utilized. While the helicopter may land briefly within approved, existing disturbance areas on the gen-tie line to pick up equipment, materials, or personnel, no helicopter refueling will occur on BLM-administered land. Helicopter activities would occur over a temporary period within the proposed 2-year20-month construction of the Project and would occur within the typical construction hours Monday through Friday 7:00am to 7:00pm. It is estimated that helicopters would be used for up to 200 hours over approximately 40 days. The helicopter activities would reduce ground disturbance by eliminating certain on-the-ground equipment that is typically used for overhead gen-tie line construction, including cranes, backhoe, and trucks. Helicopter use would also reduce the total duration of gen-tie construction by approximately 10 to 15 days. A full-time avian monitor would be onsite for the full duration of helicopter activities to specifically monitor helicopter activities.

All helicopter operations would be in accordance with a County and BLM approved Helicopter Use Plan, and all aircraft, pilots, linemen, and mechanics would be in full compliance with applicable FAA requirements and standards.

2.4.8. Construction Access, Equipment, and Traffic

All equipment and materials for the Project's construction would be delivered by flatbed trailers and trucks. Most truck traffic would occur on designated truck routes and major streets. Project components

would be assembled on site. Traffic congestion resulting from construction activities would be temporary and could occur along area roadways as workers commute and materials move to and from the Project site. Helicopters and drones could be used to support construction activities and designated landing and refueling zones would be established. Materials deliveries during construction would travel up to 150 miles one way from sources to the Project site.

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During construction, an average of 320 workers per day would commute to the Project site with a maximum of 530 workers during peak construction. In addition, an estimated 80<u>60</u> round trips per day would be required to deliver materials and equipment to the Project site. Water for construction-related dust control and operations would be obtained from several potential sources, including <u>multiple_up to 2</u> onsite or offsite groundwater wells, and/or trucked from an offsite water purveyor.

Flagging operations at site access points may be implemented during construction if/when traffic control needs are indicated through either monitoring traffic operations during construction or determined to be required during construction stage planning.

2.4.9. Post-Construction Cleanup

Construction sites would be kept in an orderly condition throughout the construction period by using approved enclosed refuse containers. All refuse and trash would be removed from the sites and disposed of in accordance with BLM regulations. No open burning of construction trash would occur. All vegetation that may interfere with equipment would be trimmed and removed using manual non-mechanical means or sprayed with an approved herbicide, as necessary.

2.4.10. Construction Site Stabilization, Restoration, and Wildlife Monitoring

Following the completion of major construction, temporarily disturbed areas would be revegetated pursuant to an approved Restoration Plan. The Plan would describe the Applicant's strategy to minimize adverse effects on native vegetation, soils, and habitat. Where necessary, native re-seeding or vertical mulching techniques to alleviate compaction would be used. However, it is anticipated that many species will regenerate post-construction due to preservation of desert vegetation during the construction phase.

At the conclusion of restoration activities, and if determined beneficial by USFWS, CDFW, and BLM biologists, any previously relocated plants and wildlife would be reintroduced to the Project site and monitored for safety and health.

2.5. Operation and Maintenance Activities

Upon commissioning, the Project would enter the operations phase. The solar modules at the site would operate during daylight 7 days a week, 365 days a year. Operational activities at the Project site would include:

- Maintaining safe and reliable solar generation;
- Site security;
- Responding to automated electronic alerts based on monitored data, including actual versus expected tolerances for system output and other key performance metrics; and
- Communicating with customers, transmission system operators, and other entities involved in facility operations.

Site standby power would be provided by backup generator(s). The California Air Resources Board (CARB) requires stationary generator engines rated 50 brake-horsepower (bhp) (equivalent to 37 kW) or greater to obtain an air quality permit issued by the local air district. If backup generators for the substation are

50 MW or greater, then the Applicant would obtain necessary permits from the California Energy Commission as well.

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2.5.1. Operation and Maintenance Workforce

During operation of the proposed Project, up to 10 permanent staff could be on the site at any one time for ongoing facility maintenance and repairs. Alternatively, approximately 2 permanent staff and 8 Project operators would be located off site and would be on call to respond to alerts generated by the monitoring equipment at the Project site. Security personnel would be on call. The staff would be sourced from nearby communities in Riverside County. The O&M building would house the security monitoring equipment, including security camera feeds for monitoring the Project 24 hours per day.

2.5.2. Site Maintenance

The Project site maintenance program would be largely conducted during daytime hours. Equipment repairs could take place in the early morning or evening when the plant would be producing the least amount of energy. Key program elements would include maintenance activities originating from the on-site O&M facility.

Maintenance typically would include: panel repairs; panel washing; maintenance of transformers, inverters, energy storage system, and other electrical equipment; road and fence repairs; and vegetation and pest management. The Applicant would recondition roads up to approximately once per year, such as after a heavy storm event that may cause destabilization or erosion.

Revegetation would be the primary strategy to control dust across the solar facility site. Soil binders would be used to control dust on roads and elsewhere on the solar facility site, as needed.

On-site vegetation would be managed to ensure access to all areas of the site, reduce fire risk, and to assist in screening Project elements as needed. Onsite vegetation may be trimmed approximately once every three years, <u>or</u> as needed. For the first year, weed management and control would be performed quarterly.

Solar modules would be washed as needed (up to four times each year) using light utility vehicles with tow-behind water trailers to maintain optimal electricity production. No chemical agents would be used for module washing.

No heavy equipment would be used during normal operation. O&M vehicles would include trucks (pickup and flatbed), forklifts, and loaders for routine and unscheduled maintenance and water trucks for solar panel washing. Large heavy-haul transport equipment may be brought to the solar facility infrequently for equipment repair or replacement. No helicopter use is proposed during routine operations although they may be used for emergency maintenance or repair activities.

Long-term maintenance schedules would be developed to arrange periodic maintenance and equipment replacement in accordance with manufacturer recommendations. Solar panels are warrantied for 35 years or longer and are expected to have a life of 50 or more years, with a degradation rate of 0.5 percent per year. Moving parts, such as motors and tracking module drive equipment, motorized circuit breakers and disconnects, and inverter ventilation equipment, would be serviced on a regular basis, and unscheduled maintenance would be performed as necessary.

2.5.3. Fire Safety During Operation

Solar arrays and PV modules are fire-resistant, as they are constructed largely of steel, glass, aluminum, or components housed within steel enclosures. As the tops and sides of the panels are constructed from glass and aluminum, PV modules are not vulnerable to ignition from firebrands from wildland fires. In a

wildfire situation, the panels would be rotated and stowed in a panel-up position. The rotation of the tracker rows would be controlled remotely via a wireless local area network. All trackers could be rotated simultaneously in a hazard situation.

The BESS would comply with the current California Fire Code (CFC), which governs the code requirements to minimize the risk of fire and life safety hazards specific to battery energy storage systems used for load shedding, load sharing, and other grid services (Chapter 12 Section 1206 of the 2019 CFC). In accordance with the CFC, the battery enclosure and the site installation design are all required to be approved by the State Fire Marshal. If applicable, the BESS would be certified to UL 9540, the standard associated with control, protection, power conversion, communication, controlling the system environment, air, fire detection and suppression systems related to the functioning of the energy storage system. The battery would be tested to UL 9540A, a test method intended to document the fire characteristics associated with thermal event or fire and would confirm that the system will self-extinguish without active fire-fighting measures. The system would be designed such that, during a fire event, the results of the UL 9540A test would show that any internal fire is contained within the enclosure and not spread to the other parts of the facility. The results of this test are used to inform facility safety system design and emergency response plans which would be shared with first responders. If applicable, the system would use a chemical agent suppressant-based system to detect and suppress fires. If smoke or heat were detected, or if the system were manually triggered, an alarm would sound, horn strobes would flash, and the system would release suppressant, typically FM-200, NOVEC 1230 or a similar clean agent⁹ from pressurized storage cylinders. However, final safety design would follow applicable standards and would be specific to the battery technology chosen, including, but not limited to, National Fire Protection Association 855 (standard for the Installation of Stationary Energy Storage Systems) and Section 1206 of the California Fire Code.

During O&M activities, standard defensible space requirements would be maintained surrounding any welding or digging operations. Fire safety and suppression measures, such as smoke detectors and extinguishers, would be installed and available at the O&M facility, if required by the County and/or BLM.

As described above, a Fire Management and Prevention Plan will be prepared in coordination with the County, BLM Fire, or other emergency response organizations to identify the fire hazards and response scenarios that may be involved with operating the solar facility and BESS. This would include information on response to accidents involving downed power lines or accidents involving damage to solar arrays and facilities.

2.5.4. Wildlife-Friendly Fencing

The Applicant may elect to utilize wildlife-friendly fencing on portions of the proposed facility based on its success at the Oberon Project. If wildlife-friendly fencing is implemented, after vegetation is substantially reestablished <u>following the completion of construction</u>, temporary desert tortoise exclusion fencing <u>may-would</u> be removed <u>only in the area(s) of wildlife-friendly fencing after construction</u>. If wildlife-friendly fencing is implemented, it would likely be located in the portion of the solar facility within the Pinto Wash Linkage and/or areas adjacent to desert dry wash woodland that provide higher value wildlife habitat.

This would allow desert tortoise and other wildlife passage through portions of the Project site for the life of the Project. In areas where wildlife-friendly fencing is implemented, the security fence would leave a 6- to 8-inch gap between the lower fence margin (rail or mesh) and the ground. The bottom of the fence fabric (chain-link or similar material) would be wrapped upward so that no sharp edges are exposed along the lower fence margin. O&M safety practices, including worker training, fence inspections, and biological

⁹ Clean agents, including inert gases, are commonly used to suppress fires in machinery and electrical equipment, including occupied spaces, because they do not damage components and are considered safe for people and the environment.

monitoring of nesting, burrowing, or denning wildlife, would be implemented to maximize long-term safety of desert tortoises and other wildlife present at the site.

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2.5.5. Drone Use

Drones would be used to perform annual thermal and visual inspections of the gen-tie line and overhead medium-voltage collector line structures. The maximum drone operation heights would be restricted to 300 feet, which is higher than the maximum height of the gen-tie line structures.

Annual visual inspections are required by NERC FAC-003-4 Transmission Vegetation Management and utilized for preventative maintenance to reduce the risk of equipment malfunction or failure. Drone inspections would be performed once per year between September and November to avoid potential impacts to nesting native and migratory birds. A team of two Federal Aviation Administration (FAA) approved and Unmanned Aircraft System (UAS) certified pilots would drive a truck on gen-tie ROW access roads as close to the inspection sites as is safe and feasible, park on the road, and begin the inspection. The drones used would be battery-powered *Matrice 300 RTK or Matrice 200 series* drones or similar and would perform the inspections between approximately 76-300 feet above ground level (AGL). Operating hours for inspections would be between the hours of 10:00 a.m. and 3:00 p.m. The drone pilots would work in pairs with one flying and one spotting for safety. The use of drones for gen-tie infrastructure inspections would minimize the need for larger vehicles, such as bucket trucks, and no ground disturbance would occur during drone use.

2.5.6. O&M Water Requirements

During the operations and maintenance phase, water would be required for panel washing and maintenance and for workforce facilities. Substation restroom facilities would be located adjacent to the O&M building. If the septic system is not self-contained, an associated leach field would be required. The leach field would be permitted by Riverside County and would not be located within 0.25 mile of any drinking water well.

During operation, the solar array portion of the Project would require the use of a total of approximately 50 acre-feet of water annually for panel washing (which would occur up to four times per year) and other uses. No wastewater would be generated during panel washing as water would be absorbed into the surrounding soil or would evaporate. Water would be obtained from an onsite <u>or offsite groundwater well or purchased off site</u>.

2.6. Decommissioning and Repowering

The facility's equipment has a useful life of 30 to 50 years. At the end of the initial power purchase agreement's contract term of approximately 10 to 25 years, the Project would still be able to generate power. At that time, the facility would likely be optimized to increase the plant's efficiency by swapping out inverters for more efficient units, and potentially swapping out some of the facility's modules. Grounddisturbing work would not be necessary for optimization activities. The Project would be offline for several weeks or months during optimization activities but would subsequently continue delivering electricity to the wholesale market for many decades. Conditional Use Permit (CUP), Public Use Permit (PUP), and ROW renewals would be sought from the County and BLM, as necessary. Long-term operations would be the same as described above.

At the end of the Project's useful life, the solar arrays and gen-tie line would be decommissioned and dismantled per an agency-approved Closure and Decommissioning Plan. It is assumed that decommissioning would take approximately 20 months, similar to the construction duration, and would likewise use up to 1,000 AF of water for dust suppression (including truck wheel washing) and other purposes during

the 20-month period. It is unknown how much water would be used during decommissioning, but it is assumed that the Project would require approximately 100 AF (50 AF per year) due to advancements in efficiency and dust control technologies.

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Upon ultimate decommissioning, a majority of Project components would be suitable for recycling or reuse, and Project decommissioning would be designed to optimize such salvage as circumstances allow and in compliance with all local, State, and federal laws and regulations in effect at the time of decommissioning. Following removal of the above-ground and buried Project components as required in the Closure and Decommissioning Plan, the site would be restored to its pre-solar facility conditions, or such condition as appropriate in accordance with County and BLM policies at the time of decommissioning.

Decommissioning activities would require similar equipment, workforce, and duration (20 months) as construction, but would be substantially less intense. The following activities would be involved:

- Dismantling and removal of all above-ground equipment (solar panels, track units, transformers, inverters, substation, O&M buildings, switchyard, distribution lines, etc.)
- Excavation and removal of all above-ground cables
- Removal of solar panel posts
- Removal of primary roads (aggregate-based)
- Break-up and removal of concrete pads and foundations
- Removal of septic system and leach field
- Removal of 34.5 kV collector lines
- Dismantling of gen-tie line
- Scarification of compacted areas
- Revegetation of temporary disturbance areas, consistent with the Closure, Decommissioning, and <u>Reclamation Plan (Appendix Y).</u>

The panels could be sold into a secondary solar PV panel market. The majority of the components of the solar installation are made of materials that can be readily recycled. If the panels can no longer be used in a solar array, the silicon can be recovered, the aluminum resold, and the glass recycled. Other components of the solar installation, such as the tracker structures and mechanical assemblies, can be recycled, as they are made from galvanized steel. Equipment such as drive controllers, inverters, transformers, and switchgear can be either reused or their components recycled. The equipment pads are made from concrete, which can be crushed and recycled. Underground conduit and wire can be removed by uncovering trenches, removing the conduit and wire, and backfilling. The electrical wiring is made from copper and/or aluminum and can be reused or recycled, as well. It is estimated that 100 percent of copper components would be recycled and approximately 50 percent of aluminum and other components would be recycled.

Decommissioning of the aboveground portion of the gen-tie, and overhead medium voltage collector lines, and distribution lines consists of removal of the overhead conductors and removal of poles (risers). All steel would be recycled, and the overhead structure foundations removed to a depth of at least 2 feet below the ground surface. Aluminum from overhead conductors would be recycled. Procedures would be designed to ensure public health and safety, environmental protection, and compliance with all applicable laws, ordinances, regulations, and standards.

2.7. Applicant Proposed Measures, <u>Best Management Practices</u>, and <u>DRECP</u> <u>CMAs</u>

As part of the Project, the Applicant proposes to implement measures to ensure the Project would occur with minimal environmental impacts and in a manner consistent with applicable rules and regulations. These measures would be implemented during the design, construction, and operation of the Project.

2.7.1. Applicant Proposed Measures

The Applicant Proposed Measures (APMs) listed below are considered part of the Project and are considered in the evaluation of environmental impacts (see Section 3, Environmental Analysis). Project approval would be based upon the Applicant adhering to the Project as described in this document, including this project description and the APMs, as well as any mitigation measures that may be imposed as conditions of approval.

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- APM VIS-1 Weathering Coating of Security Fencing. To reduce operational visual impacts of the Project to the community of Lake Tamarisk, the Project owner will apply a weathering coating (Natina or substantially similar) to the Project security fencing located closest to the <u>c</u>=community. <u>The coating would reduce the occurrence of reflectance</u>, which would be visually distracting, and the <u>typically</u>-earth-tone color of the coating would reduce the industrial character of the fencing and help it to blend more effectively with the surrounding landscape. The total length of fencing that will be coated is approximately one mile and may be contiguous or <u>in</u> separate sections, depending on the final Project design and the location(s) of most visible security fencing.
- APM CULT-1 Native American Monitoring. The Applicant will enter into an agreement with interested culturally-affiliated and/or consulting tribe(s) to employ at least one Native American Monitor per archaeological monitor. A Native American monitor will be called immediately upon discovery of a cultural resource if a Native American monitor is not already present. In conjunction with the County- and BLM-approved archaeologist(s), the Native American Monitor will be invited to monitor all initial ground disturbing activities and excavation of each portion of the Project site including clearing, grubbing, tree removals, grading and trenching, as outlined in the Project's Cultural Resource Monitoring Plan (see Mitigation Measures [MMs] CUL-1 and TCR-1), and attend meeting(s) to discuss the significance of unanticipated find(s) and appropriate treatment of unanticipated resources. The Applicant will immediately alert interested culturally-affiliated and consulting tribes in the event of an unanticipated discovery. "Native American Monitor" means an individual who is presented as a representative of a tribal government for one of the culturally-affiliated or consulting tribes for the Easley Project and who has received specialized training approved by that tribal government to serve as a monitor.
- **APM NOISE-1 Construction Timing.** Applicant will avoid or minimize use of any impact hammer for pile driving or other equipment similarly capable of producing disruptive noise during construction activities within a one-mile radius from the residential parcel on the northeast corner of the Lake Tamarisk Desert Resort community during the winter months of highest residency (November 1 to March 31). If based on the final construction schedule, use of such equipment is necessary within this geographic area during the aforementioned time period, the Applicant will avoid or minimize this construction activity prior to 7:00am and after 6:00pm. The Applicant will also avoid nighttime equipment deliveries between 10:00pm and 7:00am.

Figure 2-13 depicts the one-mile radius described in APM NOISE-1.

2.7.2. Best Management Practices

In response to comments raised during the Draft EIR comment period, the Applicant also commits to the following project development best management practices (BMPs) during site preparation and construction. Additional BMPs identified in the Project's Fugitive Dust Control Plan would also be implemented during all grading and vegetation removal activities.

Utilize 'Overland Travel' as much as possible instead of high-impact methods like disk and roll or grading, grading only within fenced areas and other areas that have been previously inspected by tortoise clearance surveys.

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- Assemble as much of the racking material as possible in laydown areas, which minimizes travel along panel rows.
- Designate primary travel routes every few rows between panel arrays to minimize disturbance along other rows. Focus disturbance to few primary travel paths to avoid zigzagging, which in the long run reduces other impacts.
- Ensure that there are well-trained construction monitors on site focused on ensuring that construction/ vehicle trips impacts are minimized.
- Limit grading to specific areas roads, substation, O&M facilities, laydown areas, some equipment pads, and in discrete areas within the arrays due to structural design limitations.
- Utilize smaller rubber-wheeled vehicles, lightweight skid steers, small cranes, tractors, and rubber-tired forklifts where possible to minimize soil disturbance.
- Keep soils out of drainages, preserve protective buffers alongside washes, and maintain hydrologic flow patterns within the site.
- If possible, bend and pin temporary tortoise exclusion fencing instead of trenching it in, to minimize disturbance along the fence line.
- Incorporate propagule islands, patches of intact vegetation and soils that provide seeds and soil microbial propagules, to facilitate revegetation or recolonization of adjacent disturbed areas.
- Construct the project in phases, which reduces dust and allows areas to begin recovery sooner.
- Monitor vegetation recovery on site after construction by developing a <u>Vegetation Resources</u> <u>Management</u> <u>Restoration</u> Plan (EIR Appendix S). Use benchmarks and required restoration measures (if much disturbance has taken place) to ensure sufficient plant growth after construction.

2.7.3. DRECP Conservation and Management Actions

The BLM Desert Renewable Energy Conservation Plan (DRECP) is a collaborative, interagency landscapescale planning effort covering 22.5 million acres in seven California counties—Imperial, Inyo, Kern, Los Angeles, Riverside, San Bernardino, and San Diego. The DRECP has two primary goals. One is to provide a streamlined process for the development of utility-scale renewable energy generation and transmission in the deserts of southern California consistent with federal and state renewable energy targets and policies. The other is to provide for the long-term conservation and management of special-status species and desert vegetation communities, as well as other physical, cultural, scenic, and social resources within the DRECP Plan Area using durable regulatory mechanisms. DRECP planning decisions are "designed to both provide effective protection and conservation of important desert ecosystems, while also facilitating the development of solar, wind and geothermal energy projects in those unique landscapes." The DRECP Land Use Plan Amendment (LUPA) and supporting FEIS, identified lands within the California desert that would be appropriate for conservation and lands that would be appropriate for renewable energy development, called Development Focus Areas (DFA), and as noted above, such DFA lands are proposed for the Easley Project.

Approval of the Easley Project on public lands involves a federal action and is thus subject to the environmental analysis requirements of the National Environmental Policy Act (NEPA). Because the construction, operation, and decommissioning of the proposed Action would be conducted in accordance with DRECP Conservation and Management Actions (CMAs), an Environmental Assessment (EA) under NEPA is anticipated to be published in 2024. The EA would tier to the DRECP Final Environmental Impact Statement (FEIS).

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The FEIS supporting the DRECP ROD comprehensively evaluated utility-scale renewable energy development in the California desert including the DFAs where the Project is located. The FEIS considered impacts to all resources potentially impacted by renewable development. It included CMAs designed to reduce the effects of development on sensitive resources as well as highlighting other types of mitigation that might be required to further reduce impacts.

The Easley Project will fully comply with all applicable DRECP CMAs on BLM-administered land, and the Applicant has stated that the Easley Project will also voluntarily comply with all applicable DRECP CMAs on private lands. A detailed BLM Project consistency CMA analysis is provided in EIR Appendix CC.

2.8. Alternatives Analyzed in Detail

2.8.1. CEQA Requirements for Alternatives

Section 15126.6(a) of the State California Environmental Quality Act (CEQA) Guidelines states that an Environmental Impact Report (EIR) "shall describe a range of reasonable alternatives to the project, or to the location of the project, which would feasibly attain most of the basic objectives of the project, but would avoid or substantially lessen any of the significant effects of the project, and evaluate the comparative merits of the alternatives." Further, an EIR need not consider every conceivable alternative to a project. Rather, it must consider a reasonable range of potentially feasible alternatives that will foster informed decision making and public participation. An EIR is not required to consider alternatives that are infeasible. The CEQA Guidelines state that factors that may be considered when determining the feasibility of alternatives are "site suitability, economic viability, availability of infrastructure, general plan consistency, other plans or regulatory limitations, jurisdictional boundaries (projects with a regionally significant impact should consider the regional context) and whether the proponent can reasonably acquire, control, or otherwise have access to the alternative site (or the site is already owned by the proponent)" [CEQA Guidelines Section 15126.6(f)(1)].

Additionally, the No Project Alternative must be analyzed. The EIR must explain the rationale for selecting the alternatives to be discussed, identify those that were not carried forward because they were infeasible, and briefly explain why these were not carried forward. The "environmentally superior" alternative to the Project must be identified and discussed (see Section 5, Comparison of Alternatives). If the environmentally superior alternative is the No Project Alternative, the EIR must identify an additional "environmentally superior" choice among the other Project alternatives.

As presented below, a variety of alternatives to the Project were considered to determine potential alternatives which might produce fewer significant impacts, or reduce the severity of those significant impacts, than the proposed Project, including the No Project Alternative. Possible alternatives were assessed as to whether they would satisfy the following:

- The alternative is technically feasible;
- The alternative would avoid or substantially lessen any of the significant impacts of the proposed Project; and
- The alternative would attain most of the basic proposed Project objectives defined in Section 1.3.

Alternatives considered included the No Project Alternative and those associated with a revised configuration of the solar and BESS facility. The No Project Alternative and other alternatives carried forward for evaluation in Section 5.4 (Environmental Analysis) are presented in Section 2.7. An alternative comparison is provided in Section 5. Alternatives considered, but not carried forward for further analysis are presented in Section 2.8.

2.8.2. Alternative <u>A</u>**1**: No Project Alternative

2.8.2.1. No Project Alternative A1: No Build Alternative

<u>Consideration of t</u>The No Project Alternative is required by CEQA. Under the No Project Alternative, the construction of a solar generating facility and associated infrastructure would not occur. This alternative discusses existing conditions as well as what would be reasonably expected to occur in the foreseeable future if the Project is not approved and does not take place.

Under the No Project Alternative, the construction of the Easley Renewable Energy Project and associated infrastructure would not occur. Because no Project would be constructed, none of the construction, operation, or decommissioning impacts associated with the Project would occur to any of the resources identified and discussed in Section 3. Project-related offsite mitigation and contributions to cumulative impacts would not occur.

<u>Consistency with Project Objectives.</u> The No Project Alternative would not meet any of the Applicant's objectives for the Project and would not contribute to achieving any of the energy generation goals or GHG reduction goals under Senate Bill 350, Senate Bill 100, and AB 32. The DRECP ROD notes that "it is designed to both provide effective protection and conservation of important desert ecosystems, while also facilitating the development of solar, wind and geothermal energy projects in those unique landscapes."

Furthermore, Executive Order 14008, issued January 27, 2021, "Tackling the Climate Crisis at Home and Abroad," directs the Secretary of the Interior to identify steps that can be taken to increase renewable energy production on public lands and manage federal lands to support robust climate action (see sections 204 and 207).

If energy that would have been produced by the proposed Project is not replaced with energy provided from renewable sources, the alternative energy projects could result in greater emissions from, for example, the burning of fossil fuels. Such replacement projects would not contribute to meeting state or federal GHG reduction goals.

2.8.2.2. No Project Alternative A2: Uses Allowed by Right within Existing Land Designations

No Project Alternative A2 considers only uses that may occur on both Federal and County land that would not require discretionary approvals from the jurisdiction. Given this limitation, BLM lands would not be developed under Alternative A2, since any development on BLM lands requires a discretionary decision from the agency. In contrast, lands under County jurisdiction have various allowed uses as identified in the zoning code that do not require discretionary approval by the County. Parcels under County jurisdiction that fall within the Project boundary include lands zoned as A-1, W-2, and N-A., as described in County Ordinance No. 348.

- Under A-1 (Light Agricultural) zoning permitted uses include one-family dwellings, water works, a wide range of agricultural activities and structures, parks and playgrounds, mining, outside storage of farming equipment, and employee housing.
- Under W-2 (Controlled Development Areas) zoning permitted uses are largely similar to zone A-1 but distinguish between lots of one acre or greater and those less than one acre.
- Under N-A (Natural Assets) zoning permitted uses are limited and include one-family dwellings, guest dwellings, garages and accessory buildings, field and tree crops, and limited grazing.

Under the County zoning ordinance these properties could be developed or employed in any of the permitted uses without discretionary approval. In addition, the Riverside County Code of Ordinances (Sec.

<u>17.208.010</u>) provides for a public use permit in any zone, allowing a range of uses that includes educational institutions, energy storage or transmission facilities, hospitals, and public utilities.

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Under Alternative A2 BLM-administered lands would not be developed. For lands under County jurisdiction, a reasonable development scenario wcould include agricultural-related uses, construction of scattered rural residences, and/or development of facilities allowed under Sec. 17.208.010.

Consistency with Project Objectives. Similar to Alternative A1 (No Build), Alternative A2 would not meet any of the Applicant's objectives for the Project and would not contribute to achieving any of the energy generation goals or GHG reduction goals.

2.8.2.3. No Project Alternative A3: Other Renewable Energy Development within Existing Land Designations

Th<u>ise</u> No Project Alternative considers what would be reasonably expected to occur <u>on lands within the</u> <u>Project boundary</u> in the foreseeable future if the proposed Project is not approved and does not take place. The Project site is located on BLM-administered land within <u>a Development Focus Area (DFA)</u>, and on private lands adjacent to <u>the DFA</u> <u>Development Focus Area</u>. The Project area is near an existing substation with available capacity for additional energy transmission.

The BLM's DRECP LUPA defines 148,000 acres in Riverside County as a DFA with allowable technologies being "Solar, Wind, and Geothermal." The DFA lands are around Desert Center and in the area west and northwest of Blythe. There are no other defined acceptable uses for lands within a BLM DFA.

No wind or geothermal projects have been proposed in Riverside County DFAs, and the resources required to generate this power are not known to exist in the Desert Center area. However, since solar, wind, and geothermal are the only currently allowed technologies in a DFA, this alternative (A3) considers the potential that these lands could be subject to a successful land development application for any of these technologies if the proposed Project is not approved or constructed.

<u>Solar Generation by Other Developers.</u> If the Project were not constructed, it the DFA designation makes it-is highly likely that a different solar developer would apply to the BLM to construct a similar solar project at this location. If a different solar project were to be constructed in this location, the impacts of that solar project would be evaluated under CEQA and NEPA and may be similar to those identified for the proposed Project, as presented in Section 3 of this EIR.

Geothermal Generation. A typical geothermal project could generate about 150 MW on a site of 50 to 75 acres. Three to four of these facilities would be required to generate the 400 MW that would result from the proposed Project. Geothermal facilities generate electricity by producing steam from geothermal fluids in order to power turbines. They then inject the spent (cooled) fluids back into the ground. Facilities use high pressure systems to separate chemicals and solids from the geothermal fluids.

Geothermal projects require use of geothermal production wells, pipelines, fluid and steam handling facilities, a solids handling system, surface impoundment for wastewater, a service water pond, a stormwater retention basin, process fluid injection pumps, a power distribution center, borrow pits, and injection wells. Wells must be spaced apart from each other in order to produce adequate amount of steam.

The major operational components of a geothermal facility include a steam turbine generator system, geothermal fluid processing system, cooling towers, and well pads. Geothermal generation facilities also require onsite substations and gen-tie lines connected to the State or regional electrical grid.

The impact drivers for geothermal generation include the following:

Construction:

- <u>Grading and vegetation removal is required where all facilities are to be installed, with potential effects on biological and cultural resources and creation of wind-blown dust.</u>
- Pipeline construction extends across many acres, so pipeline rights-of-way are cleared around the site, along with access roads. Pipes are generally installed aboveground (on supports that are elevated above grade).
- <u>Construction of well pads around the site, sufficiently spaced to prevent interaction of the injection</u> <u>fluid with produced water.</u>
- Brine ponds are required for impoundment of operational fluids during upset conditions or other operational events.
- Steam turbine generator systems operate at high pressure to generate electricity. Turbines are installed within structures.
- Multiple-cell cooling towers are required to cool the circulated fluids after steam generation.
- Management systems are installed for hazardous and nonhazardous wastes.
- <u>Construction creates noise and vibration that varies in intensity depending on activities ongoing. The loudest activities include excavation, concrete pouring, steel erection (using derrick cranes and jack hammers), installation of mechanical equipment (using pneumatic tools and cranes). Pile driving or blasting may be required.</u>
- Operation:
 - Well drilling for both production of steam and for injection of spent geothermal fluids (up to 7,500 feet of depth). Geothermal fluids tend to have significant amounts of dissolved solids (zinc, manganese, iron, and silica).
 - <u>Reservoir fluids are at high temperatures and are corrosive.</u>
 - Well drilling requires drill rigs at dispersed well pads, operating 24 hours a day.
 - Industrial operations include facilities for solids dewatering, high- and low- pressure separators and scrubbers, tanks, gas removal systems, control room and maintenance building.
 - Cooling towers include components up to 50 feet high and joined into a single structure.
 - The mechanical systems complex includes facilities up to nearly 100 feet tall.
 - <u>Chemical handling is required for the solids that are produced with the geothermal fluids, including ammonium, sodium, magnesium, potassium, calcium, manganese, iron, chloride, and others.</u> <u>Similarly, spent geothermal fluids (to be reinjected into the ground) include high concentrations of sodium, potassium, calcium, and chloride. Hazardous solid wastes are generated and are disposed of at appropriate landfills.</u>
 - Water is required for power generation and facility services (drinking water, sanitary systems, etc.).
 - Air emissions result from particulates released from cooling towers and low concentrations of hydrogen sulfide (H2S) can be present.
 - Because the facility operates 24 hours per day, facility lighting is required for indoor and outdoor areas.

- An onsite substation and gen-tie lines would be constructed.
- Operations create substantial noise affecting wildlife and nearby populations due to steam venting ("steam blows") and upset conditions.

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Wind Generation. About 125 3.2 MW wind turbines (the average size in 2022) or 80 5 MW turbines would be required to generate the 400 MW of electricity the proposed Project would generate. Wind projects require an average of 85 acres of land per MW generated (though only about 1 acre per MW is permanently disturbed) so wind turbines installed on the Easley Project area within the solar and BESS facility (3,735 acres) could generate less than 50 MW (assuming wind speeds within typical wind project areas). The average height of turbines in 2022 was 98.1 meters (or 322 feet; 2024 DOE). Modern wind turbines have blades of over 170 feet long, and the largest turbines have blades over 350 feet long.

The impact drivers for wind generation include the following:

- Construction:
 - <u>Construction of access roads, tower foundation pads, construction laydown areas would be con-</u> structed, potentially affecting wildlife, plants, and cultural resources, and producing dust.
 - Assembly of towers, nacelles, and blades requires large cranes with associated noise and air emissions.
 - Installation of collector lines for turbine generation, construction of onsite substation, and construction of gen-tie line to offsite substation would require ground disturbance with similar effects for construction of other project components.
- Operation:
 - Operation of wind turbines can result in bird collision with blades, though there is newer technology to allow operation to be halted in areas of high raptor use.
 - <u>Turbine sound (noise made by moving blades) and visual impact of tall towers can affect nearby</u> residences.
 - <u>Under certain lighting conditions, turbines can create an effect known as "shadow flicker" that can be annoying to occupants in some nearby structures.</u>
 - <u>The Federal Aviation Administration requires installation of night lighting (red or white) for turbines</u> over 200 feet tall.

Consistency with Project Objectives. The renewable power generation that could occur with this alternative is consistent with the project objectives relating to climate change and renewable energy, but the wind component could generate only about 12% of the electricity of the proposed Project due to the larger land areas required for this technology. In addition, the geothermal and wind technologies that could be permitted on DFA-designated lands would have numerous significant impacts, conflicting with the objective of minimizing environmental impacts.

2.8.3. Alternative <u>B</u>2: Lake Tamarisk <u>Reduced Footprint</u> Alternative

The <u>Lake TamariskReduced Footprint</u> Alternative would be located within the proposed Project application area and has been developed in response to concerns expressed by the Lake Tamarisk Desert Resort community during the CEQA scoping process. The Alternative would be similar to the proposed Project but would remove approximately 30-<u>50</u> acres of solar panels closest to the community of Lake Tamarisk, such that the Project solar panels would be approximately 0.45 miles (2,350 feet) from the northeast corner of the Lake Tamarisk Desert Resort community compared to 750 <u>approximately 650</u> feet under the proposed Project. With this reduction in acreage, the electrical output would not be appreciably be reduced <u>by up to 10 MW (up to 390 MW)</u> compared to the proposed Project <u>(up to 400 MW)</u>.

In addition, in response to visual concerns, the onsite substation and BESS would be moved at least 0.7 mile to the northeast (farther from the community of Lake Tamarisk), on either BLM-administered land (Substation Alternative A) or private land adjacent to SR-177/Rice Road (Substation Alternative B) (see Figure 2-14). The alternative substation would be over 1.2 miles from the residences within Lake Tamarisk as opposed to approximately 0.6 mile under the proposed Project. The Applicant is in discussions with MWD and EDF Renewables to ensure that there are no conflicts with existing or proposed easements across the Easley Project site.

7-9

The 500 kV gen-tie line from both of the Alternative substation location options would exit the substation to the south and would cross SR-177/Rice Road before turning to the southwest to parallel the roadway on BLM land within the Easley site to rejoin the proposed route where it would cross SR-177/Rice Road onto the Oberon Project. The gen-tie line ROW under the proposed Project and Lake TamariskReduced Footprint Alternative would be 175 feet wide. At 7.5 miles, the length of the 500 kV gen-tie line under the Lake TamariskReduced Footprint Alternative would be approximately 0.8 miles longer than the proposed 500 kV gen-tie line (6.7 miles).

Consistency with Project Objectives. The Reduced Footprint Alternative would meet nearly all of the proposed Project's objectives. This alternative would remove approximately 50 acres of solar panels closest to the community of Lake Tamarisk. This alternative would also move the onsite substation and BESS farther from the community of Lake Tamarisk, and the 500 kV gen-tie line would be approximately 0.8 miles longer than the proposed 500 kV gen-tie line. The electrical output would be reduced by up to 10 MW compared to the proposed Project, and the impacts would be similar, therefore, it would meet most of the Project objectives.

2.8.4. Alternative C: Further Reduced Footprint Alternative with Berms

As requested in comments submitted by residents of the Lake Tamarisk Desert Resort, the Further Reduced Footprint Alternative with Berms (Alternative C) includes the following components, which are shown in Figure 2-15 (see EIR Appendix A) and described in greater detail below:

- Minimum buffer zone setback of one mile from the Lake Tamarisk Desert Resort borders, including the <u>"Phase II" expansion area.</u>
- Earthen berms at 2 locations.
- Onsite Substation/BESS/O&M Building and Associated Gen-Tie Line Relocation.

Community Setback. Under the Further Reduced Footprint Alternative with Berms, all panels would be removed within 1.5 miles to the east, 2 miles to the northeast, and 1 mile north of the nearest existing Lake Tamarisk Desert Resort. With the requested setback, approximately 530 acres would not be developed with solar panels compared to the proposed Project (up to 400 MW) and 480 acres would not be developed with solar panels compared to the Reduced Footprint Alternative (up to 390 MW). Underground medium voltage 34.5 kV lines may need to cross within the setback area to connect the solar facility development areas to the onsite substation. Additional acreage would also be lost to account for construction of two earthen berms and rerouting the gen-tie line across the solar facility site from the relocated substation site, as described below. Alternative C would therefore result in a reduction of at least 80 to 1100 MW compared to the proposed Project and would generate 290300 to 320 MW.

Unless BLM amends the California Desert Conservation Area (CDCA) and DRECP Land Use Plan Amendment (LUPA) to designate a portion of the Project area as a solar development exclusion zone, the vacant area within the buffer would remain designated as a Development Focus Area and may be developed for renewable energy in the future. **Earthen Berms.** Two 10-foot high earthen/sand berms, with a 1:1 slope, 20-feet across would be constructed at the locations shown in Figure 2-15. One berm would be positioned in an east-west direction north of the Lake Tamarisk community. The second berm would be positioned in a north-south direction at the eastern end of the one-mile buffer extending south to Rice Road.

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Onsite Substation/BESS/O&M Building Relocation. Under Alternative C, the substation, BESS, and O&M building would be relocated on private land (abandoned jojoba field) slightly farther from the Lake Tamarisk community. This substation/BESS/O&M building location would be within the Project footprint approximately 1.25 miles northeast of the proposed substation site and less than 0.5 miles northeast of the Reduced Footprint Alternative (Alternative B) substation yard options.

From the Alternative C substation location, the 500 kV gen-tie line route would need to be routed around a triangular-shaped private parcel that is not a part of the Project to connect with the Reduced Footprint Alternative gen-tie route to Oberon Switchyard. The Alternative C gen-tie line could follow two routes.

The first gen-tie option would be to travel along Rice Road to the southwest for approximately 0.5 mile to rejoin the Reduced Footprint Alternative gen-tie route. Routing the gen-tie line along Rice Road from the Alternative C substation site would not be feasible, because the Applicant does not have contiguous site control rights from the Alternative C site to rejoin the current gen-tie line alignment.

The second Alternative C gen-tie option, which has been incorporated into the Further Reduced Footprint Alternative with Berms Alternative, would be to route the gen-tie line west-northwest and then south on the Easley Project site to Rice Road to connect with the Reduced Footprint Alternative gen-tie line route (0.65 miles). Routing the gen-tie line across the Project site would increase the gen-tie length by 0.65 miles and would preclude installation of solar panels along its 175-foot-wide right-of-way. This would result in the loss of nearly 14 acres of the solar field. In order to make up that loss, the Applicant would need to consider three options: (1) condense its ground cover ratio, which if feasible, would decrease the megawatt-hour (MWh) energy output of individual solar panels due to shading; (2) result in a need for the Project to expand its footprint and ground disturbance elsewhere; and/or (3) reduce the solar generation output of the Project.

Overall, the Alternative C substation location would result in the 500 kV gen-tie line being 8.0 to 8.15 miles long, compared with 6.7 miles under the proposed Project and 7.5 miles under the Reduced Footprint Alternative.

Consistency with Project Objectives. This alternative would modify the proposed Project by establishing a minimum buffer zone setback of one mile from the resort border, installing earthen berms in two locations, and relocating the onsite substation and gen-tie line. Its electrical generation capacity would be reduced in comparison with the proposed Project, but most Project objectives would be met.

2.8.5. Alternative D: Offsite Alternative

Residents of the Lake Tamarisk Desert Resort submitted comments that requested consideration of alternatives east of State Route (SR-) 177/Rice Road on BLM-managed lands farther from the community of Lake Tamarisk Desert Resort, including installation of solar panels on lands that were originally included in the Applicant's application to BLM.

BLM-administered lands within the East Riverside DFA and located to the east of SR-177/Rice Road, were included in the original Easley Project application to BLM, which totaled 10,160 acres (8,338 acres of BLM-administered land and 1,822 acres of private lands). Multiple Standard Form (SF) 299 applications and amendments were submitted to BLM between November 2017 to 2022 as the Project area was refined.

Similar to the proposed Project, the Offsite Alternative would be located on approximately 4,620 acres and would involve the construction, operation, maintenance, and decommissioning of an up to 400 MW solar facility, up to 650 MW BESS, and a 500 kV gen-tie line within the Project area shown in Figure 2-16. This alternative would be located within the East Riverside DRECP DFA.

7-9

Under the Offsite Alternative, an onsite substation would be constructed in the southern area of the site and an approximately 1 mile 500 kV gen-tie line would connect the onsite substation into the existing Oberon Switchyard (similar to the proposed Project and Alternatives B and C), or would connect directly into existing SCE Red Bluff Substation on the south side of Interstate 10 (approximately 1.8 miles). The gen-tie line would be at least 5 miles shorter than the gen-tie line under the proposed Project, Reduced Footprint Alternative (Alternative B), and Further Reduced Footprint Alternative with Berms Alternative (Alternative C).

Consistency with Project Objectives. Development of an Offsite Alternative in the East Riverside DFA with similar solar generation and energy storage capacity would meet the Project objectives.

2.8.6. Alternative E: Distributed Commercial and Industrial Rooftop Solar Alternative

Alternative E, the Distributed Commercial and Industrial Rooftop Solar Alternative, would involve the development of a number of geographically distributed small to medium solar PV systems (100 kilowatt hours to 1 MW) within existing developed areas, typically on the rooftops of commercial and industrial facilities situated throughout Riverside County. Under this alternative, no new land would be developed or altered. However, depending on the type of solar modules installed and the type of tracking equipment used (if any), a similar or greater amount of acreage (i.e., greater than 3,735 acres of total rooftop area) may be required to attain the project's capacity of 400 MW of solar PV generating capacity. Because of space or capital cost constraints, many rooftop solar PV systems would be fixed-axis systems or would not include the same type of sun-tracking equipment that would be installed in a freestanding utility-scale solar PV project. As a result, they would not attain the same level of efficiency with respect to solar PV generation. Alternative E would generate 400 MW of electricity, but likely for onsite use only, and it would not include 650 MW battery storage capacity.

This alternative assumes that rooftop development would occur primarily on commercial and industrial structures due to the greater availability of large, relatively flat roof areas necessary for efficient solar installations. Installation would likely be allowed without CEQA documentation, requiring compliance with city of county permit requirements but not project-specific mitigation measures.

<u>Residential rooftops are not considered because they offer small areas, there is great variation in construc-</u> <u>tion types, and permitting processes would vary among local jurisdictions.</u>

Similar to the proposed Project, this alternative would be designed to operate year-round using PV panels to convert solar energy directly to electrical power. Power generated by such distributed solar PV systems would typically be consumed onsite by the commercial or industrial facility, and would not require the construction of a new electrical substation or transmission facilities. Under this alternative no CUPs or zone changes would be required.

Some challenges or concerns about this alternative are the following:

The 650 MW of Project energy storage would not be included, and the alternative would not provide a new source of energy storage that assists the state in achieving or exceeding its energy storage mandate. This challenge is clearly explained in a Washington Post article entitled "Rooftop solar panels are flooding California's grid. That's a problem."¹⁰

¹⁰ https://www.washingtonpost.com/climate-environment/2024/04/22/california-solar-duck-curve-rooftop/

• The additional solar generation would likely be installed over a much longer timeframe than that expected for the proposed Project.

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- <u>Given the distributed nature of such a network of facilities, construction, management, and main-</u> tenance would not be as efficient, and total capital costs would likely be higher.
- The Project proponent does not have immediate control or access to potential urban sites that could accommodate facilities to generate the solar power.
- A distributed system on the scale of the 400 MW project would be cost-prohibitive for one developer to implement due to reduced cost efficiency of distributed solar.
- This alternative theoretically has the potential to generate of up to 400 MW of electricity, but the electricity would be used on the sites generating the power and would not achieve the project objective of assisting California load-serving entities in meeting their obligations under California's RPS Program.
- Given the size of the proposed Project, the project objectives, and the need to arrange a suitable assemblage of participating commercial and industrial properties, it is impractical and infeasible for the Project proponent to construct a distributed generation project of this scale and still proceed within a reasonably similar timeframe.

Consistency with Project Objectives. This alternative would partially satisfy the project objective of assisting California in meeting its GHG emissions reduction goals. However, other important objectives would not be met. The Project's 650 MW of energy storage would not be constructed under this alternative, so the alternative would not meet project objectives related to extending renewable energy availability into the evening hours. It is also unlikely the alternative would have an average insolation value similar to or greater than that of the project site given the lack of efficiency of rooftop solar compared to solar tracking technology.

2.9. Alternatives Considered and Eliminated from Further Analysis

2.9.1. Federal Land Alternative

During scoping, community members at the Lake Tamarisk Desert Resort requested a 5-mile "Natural Desert Zone" buffer from the community to the nearest solar installation. The commenters also suggested an alternative east of State Route 177 stating that there only remains approximately 6,000 acres west of State Route 177 for solar development, while there is 130,000 acres available east of State Route 177 in the BLM DFA. In response, the Offsite Alternative (Alternative D) located on lands initially considered by the Applicant has been fully evaluated in this EIR (see Section 2.8.5). This Federal Land Alternative considers the remaining acreage in the DFA located east of State Route 177.

Similar to the proposed Project, an alternative site on BLM-managed lands farther from the community of Lake Tamarisk Desert Resort would involve the construction, operation, maintenance, and decommissioning of an up to 400 MW solar facility, up to 650 MW BESS, and 500 kV gen-tie line. This alternative would be located within the East Riverside DRECP DFA. Additionally, the Federal Land Alternative would be located less than 15 miles from the Red Bluff Substation. It is also assumed that this alternative would require a BLM Right-of-Way Grant to allow for the construction and operation of solar facilities within BLM-managed lands.

BLM-administered lands within the East Riverside DFA and located to the east of SR-177/Rice Road, were included in the original Easley Project application to BLM, which totaled 10,160 acres (8,338 acres of BLM-administered land and 1,822 acres of private lands). Based on the results of biological resources surveys, the parcels were identified as located within an active sand (aeolian) transport corridor and within habitat for Mojave fringe-toed lizard and rare plants (chapparal sand verbena and Harwood's wooly aster). In

addition, the areas had a higher sensitivity for cultural resources. The Applicant removed these parcels (3,847 acres) from the Project due to engineering challenges within the active sand transport corridor and significant biological resources development constraints from compliance with the DRECP Conservation and Management Actions (CMAs) and resource buffers. The remaining acreage was removed due to constraints with siting of the medium voltage collector lines from the parcels to the project substation and compliance with the DRECP CMAs.

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The Federal Land Alternative on BLM-managed lands would not likely reduce any potentially significant impacts from the proposed Project, as the proposed Project is sited primarily on previously disturbed private lands and BLM-administered lands within a DFA. This alternative would likely have impacts similar to those of the proposed site for many resource elements, such as air quality and traffic. However, it is likely to have more severe biological, cultural, and visual resource impacts, as it would likely be located on undisturbed lands and may be a greater distance to existing transmission infrastructure required for interconnection. Also, it may not be feasible to find an alternative site on BLM-managed lands, because most of the land within the DFA is in use, proposed for other solar energy projects, or within mountainous areas and areas with hydrological concerns. Difficulties with compliance with the DRECP CMAs would also trigger the need for a BLM Land Use Plan Amendment as part of project approval, which would create regulatory feasibility challenges.

Finally, site control is also an issue, given that the DRECP and BLM Rents and Bonds Policy require a competitive auction to secure land within DFAs and BLM has yet to conduct one for sites in Riverside County. The Federal Land Alternative would not present significant environmental advantages over the proposed Project and has thus been eliminated from consideration.

East of Lycan Solar Project. Commenters suggested consideration of alternative sites east of the Lycan Project or on other undeveloped lands surrounding the Lycan Project. This would not be feasible, because as shown on Figure 2-4 in EIR Appendix A, the lands surrounding the proposed Lycan Project are not designated as DFA in the DRECP LUPA. These lands are within the Palen Ford Area of Critical Environmental Concern (ACEC) and the Chuckwalla ACEC, both of which preclude development of solar facilities. In addition, a site east of the Lycan Project would require an additional or relocated 500 kV gen-tie line that would be over 20 miles long, which would create significant visual impacts along the Interstate 10 corridor and would be cost prohibitive.

2.9.2. Private Land Alternative

Commenters suggested an alternative site option west of State Route 177/Rice Road and north of the proposed Project that would be located on private land that is a currently operating fish farm called Lakeview Ranch. The Applicant was unable to obtain site control from the landowner. The remaining private parcels located east of the suggested area were considered by the Applicant, but these parcels are part of the Sapphire Solar Project currently under environmental review by Riverside County and BLM.

An alternative that would develop the solar facility on other private lands elsewhere was not considered further, because it is considered speculative and infeasible based on the number of landowners whose agreement would be required. In addition, another site, such as one farther from the community of Lake Tamarisk, would likely have environmental impacts equal to or greater than the proposed site, which is located on disturbed private land and BLM-administered land that is within a DRECP DFA, and thus, targeted for renewable energy development.

2.9.3. Alternative Solar Technologies

The following alternative solar technologies have been screened and are recommended for elimination from detailed analysis since they are considered infeasible or would have greater impacts.

2.9.3.1. Solar Power Tower Technology

Solar power tower technology is a concentrating solar power (CSP) technology that uses a flat mirror "heliostat" system that tracks the sun and focuses solar energy on a central receiver at the top of a high tower. The focused energy is used to heat a transfer fluid (to 800 to 1,000 degrees Fahrenheit [°F]) to produce steam and run a center power generator. The transfer fluid is super-heated before being pumped to heat exchangers that transfer the heat to boil water and run a conventional steam turbine to produce electricity. Although concentrated, solar power systems can store heated fluids to deliver electricity even when the sun is not shining. In areas of high solar insolation potential (i.e., desert environments), the land required to develop a CSP power tower facility is comparable to that required for a PV project.

This alternative was eliminated from consideration because no substantial reduction in impacts would occur under this alternative technology and visual impacts would likely be greater due to the height of the towers. In addition, due to the extent of the facility and the height of the power towers as well as a greater potential for glare, impacts to the Desert Center Airport would be potentially greater under this alternative. It has also been suggested that due to a phenomenon known as "solar flux," power tower projects pose a greater risk to avian species by creating an invisible zone where the concentrated solar power can singe feathers and interfere with flight. The fact that the nearby Palen Solar Energy Project was previously evaluated as a solar power tower project and struggled to secure approvals due to these same impacts before switching to PV solar technology further supports the conclusion that this technology is not feasible in this area.

2.9.3.2. Solar Parabolic Trough Technology

Parabolic trough technology is another CSP technology that uses large, U-shaped (parabolic) reflectors (focusing mirrors) that have fluid-filled pipes running along their center, or focal point. The mirrored reflectors are tilted toward the sun and focus sunlight on the pipes to heat the heat transfer fluid inside, similar to the solar power tower technology. The hot fluid is then used to boil water, which makes steam to run conventional steam turbines and generators.

Solar trough fields have stringent grading requirements, as parabolic troughs must be almost level along their troughs, and grades perpendicular to the troughs are generally benched to 2 percent or less. Therefore, most of the solar facility site would need to be graded and scraped free of vegetation. Use of solar trough technology would also likely require engineered drainage channels along the facility boundary to intercept any modeled offsite surface flows and convey them around and through the site for discharge.

Therefore, similar to solar power tower and other CSP technologies, parabolic trough technology has been eliminated from consideration because it would have the potential for more severe impacts than the proposed solar PV technology. These impacts would include more dramatic degradation of visual resources (due to use of mirrors), more extensive ground disturbance, increased industrial construction for the turbines and power blocks, and use of potentially hazardous heat transfer fluids.

2.9.3.3. Distributed Solar Technology

There is no single accepted definition of distributed solar technology. The 2011 Integrated Energy Policy Report defines distributed generation resources as "(1) fuels and technologies accepted as renewable for purposes of the Renewables Portfolio Standard; (2) sized up to 20 MW; and (3) located within the low-voltage distribution grid or supplying power directly to a consumer." Distributed solar facilities vary in size from kilowatts to tens of megawatts but do not require transmission to get to the areas in which the generation is used.

A distributed solar alternative would consist of PV panels that would absorb solar radiation and convert it directly to electricity. The PV panels could be installed on residential, commercial, or industrial building rooftops, parking lots or areas adjacent to existing structures such as substations. To create a viable alternative to the proposed Project, there would have to be sufficient newly installed panels to generate up to 400 MW of capacity, which would be similar in size to the proposed Project. Alternatives to the Project that involve rooftop installation of solar generating facilities would avoid the loss of carbon sequestration that would otherwise occur due to the land use change related to construction and operation of the Project in desert habitat.

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Although there is potential to achieve up to 400 MW of distributed solar energy in the greater California area, the limited number of existing facilities makes it unlikely to be feasible or present environmental benefits. Although the type of panel used for the proposed Project is not yet known, rooftop systems typically consist of less efficient fixed tilt systems that may not be oriented optimally towards the sun, meaning that developers would need to obtain more surface area for the project if constructed on a rooftop instead of on the ground. The transaction costs of obtaining multiple rooftops, the complexity of mobilizing construction crews across multiple projects including the transporting and deployment of construction materials in a less efficient manner, the additional work needed to prepare rooftops to support a solar installation, and the need to develop the deals to secure the same amount of PV-produced electricity make this type of alternative infeasible.

The fact that distributed generation projects might have fewer impacts on certain resources because they do not utilize substations and transmission facilities illustrates that distributed generation projects cannot meet one of the fundamental objectives of a utility scale solar project: to provide renewable energy to utility off takers and their customers. Rooftop systems that are not connected to the utility side of the electric grid only generate power for on-site consumption. At the same time, the difficulties in supplying a comparable amount of MWs of clean energy to the public through the utility sector has its own set of impacts due to failure to offset the impacts of counterpart fossil fuel energy sources.

Challenges associated with the implementation of a distributed solar technology include widely varying codes, standards, and fees; environmental requirements and permitting concerns; interconnection of distributed generation; inefficiencies; and integration of distributed generation. The significant barriers to consolidating power generated through a distributed network of sites would furthermore make it unlikely that the project could achieve its storage goals and provide energy when the sun is not shining. As a result, this technology was eliminated from detailed analysis as an alternative to the proposed Project.

2.9.4. Alternative Renewable Energy Technologies

Alternative renewable energy technologies, such as geothermal, biomass, tidal and wave power technologies, have been eliminated from consideration because they are not within the Applicant's area of expertise and would not be technically or economically feasible for the Applicant to implement. The BLM DFA lands within the Desert Center area have been targeted for solar energy development and are not within a wind energy zone. Given their height, installation of wind turbines would create greater operational visual impacts than the proposed Project, as well as noise concerns to the community of Lake Tamarisk and aviation safety concerns around the Desert Center Airport.

While not an alternative to the proposed Project, a scenario of development by other developer(s) of other types of renewable energy technologies in the Project area has been included under the No Project Alternative (Alternative A3) in Section 2.8.2.3 (Other Renewable Energy Development within Existing Land Designations).

2.9.5. Conservation and Demand-Side Management

This alternative is not technically feasible as a replacement for the proposed Project because California utilities are already required to achieve aggressive energy efficiency goals. Affecting consumer choice to the extent that would be necessary for a conservation and demand-side management solution would be beyond the BLM, Regional Water Quality Control Board, and/or the Applicant's control. Even if additional energy efficiency beyond that occurring in the baseline condition may be technically possible, it is speculative to assume that energy efficiency alone would achieve the necessary greenhouse gas reduction goals. With population growth and increasing demand for energy, conservation and demand management alone is not sufficient to address all of California's energy needs. Furthermore, conservation and demand-side management would not by themselves provide the renewable energy required to meet the California renewable energy goals, a stated Project objective. Therefore, conservation and demand-side management has been eliminated from detailed analysis because it is considered remote or speculative and would not meet the stated Project objectives.

2.9.6. Earthen Berms

During scoping, members of Lake Tamarisk Desert Resort requested installation of earthen berms to be used for visual screening of the solar and energy storage facility from the community. As described in Section 2.4.4.1 (Construction-Related Grading and Vegetation Management), mass grading is not proposed, and the onsite hydrology would be maintained to the maximum extent feasible. Installation of earthen berms would change stormwater flow on and offsite, which could affect surface water flow and flooding of adjacent parcels and could also alter vegetation patterns (Nichols et al., 2023). Furthermore, given the desert environment and sandy soil, an earthen berm would be difficult to stabilize with vegetation, and therefore, could become a source of erosion and sediment. The changed water flow paths due to adding berms would also have the potential to increase erosion due to water in new areas. Due to creation of greater hydrological and erosion concerns, use of earthen berms as a project design feature has been eliminated from consideration.

2.9.7. Underground 500 kV Gen-Tie Line

An underground 500 kV gen-tie line would meet most of the basic project objectives and would reduce visual impacts. However, undergrounding 500 kV conductors would need a very wide ROW due to the required separation of buried conductors. Transition stations would be required for overhead to underground transitions at each end of the line; they would be very large and highly visible.¹¹ In addition, an underground 500 kV line would increase the construction costs of these segments by more than 10 times that of overhead construction.

Ground Disturbance and Construction Disturbance. Construction of an underground gen-tie line would require substantially more construction activity and ground disturbance due to the continuous trenching required. In areas where spacing is limited, construction activities would have to occur outside of the existing roadway. Overhead transmission line construction would result in construction disturbance primarily at individual structure sites, located approximately every 400 to 2,200 feet along the alignment. Underground construction and trenching would involve much greater ground disturbance and construction-related impacts (traffic, air quality and dust, and noise) from a trench of up to 8 feet wide.

There is also a greater potential to encounter contaminated soils and cultural resources, and to impact biological resources and cultural resources due to the greater ground disturbance. Finally, the dust and equipment emissions associated from installation of a 500 kV underground line would greatly exceed the emissions of overhead tower construction.

¹¹ https://www.tdworld.com/intelligent-undergrounding/article/20969593/engineering-a-500-kv-underground-system

Transition Stations. Construction of the transition stations at both ends of the underground gen-tie line would each require a footprint of up to 3 acres, resulting in temporary and permanent biological, cultural, and visual resources impacts as well.

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Construction and Repair Time. The installation of an underground transmission line would require more time than construction of an equivalent length of overhead line because of the time required for excavating trenches, constructing the duct banks, fluid reservoirs, and/or stop joints. In addition, maintenance and restoration time in the event of an outage would also be more difficult and could result in longer outages and repair times. Accessing manholes will require traffic control if installed in an existing roadway. In addition, duct bank repair would require excavation, traffic control, and possible roadway closure. In addition, the close proximity of the underground circuits will likely cause mutual inductance. To maintain these circuits safely, it may be required to de-energize all underground circuits when doing maintenance on any one circuit, which would interrupt renewable energy generation. Although electric fields are reduced with increasing burial depth, magnetic fields above underground conductors are many times higher than from overhead lines due to closer proximity to the conductors to receptors just a few feet above the ground.

Conclusion. In summary, all underground construction of transmission lines requires a continuous trench in which to install duct banks that would carry the electrical cables. This amount of trenching would create much more significant impacts related to dust and vehicle emissions, soils/erosion, cultural resources, biological resources, as well as a longer construction time and the need for overhead-to-underground transition stations. Operational impacts would also be greater associated with maintenance and access to the lines. Repair times would be much longer as well. While visual resource impacts related to the tower structures would be eliminated, new impacts would be created for the large transition stations. Underground construction would cause much greater impacts to most issue areas than the proposed Project, even within an existing roadway, such as Oasis Road. Therefore, given the potential for increased significant environmental impacts associated with the construction, operation and maintenance of an underground 500 kV transmission line and the extremely high cost of the technology, undergrounding the gentie transmission line has been eliminated from further analysis.

3. ENVIRONMENTAL SETTING, IMPACTS, AND MITIGATION MEASURES

3.1. Introduction to Environmental Analysis

Section 3 identifies the environmental impacts of the proposed Project, in accordance with State CEQA Guidelines sections 15126 and 15126.2. It also presents and applies criteria used to determine whether an adverse impact is significant under CEQA and describes feasible mitigation measures, if any, that could minimize each significant adverse impact to a level of less than significant.

3.1.1. Introduction to Impact Analysis

Methodology for Analysis

This section provides an analysis of potential impacts on resource areas that Riverside County has determined could result in "significant impacts" based on the scoping activities undertaken in advance of preparing this EIR. Specifically, the environmental issue areas identified for further discussion include the following:

- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources and Tribal Cultural Resources
- Energy
- Geology, Soils and Mineral Resources
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials

- Hydrology and Water Quality
- Land Use and Planning
- Noise
- Paleontological Resources
- Population and Housing
- Public Services and Utilities
- Recreation
- Transportation
- Wildfire

Sections 3.1 through 3.19 discuss the environmental impacts that may result with approval and implementation of the Project, and where significant impacts are identified, recommends mitigation measures that, when implemented, would reduce those impacts to a less-than-significant level. The items addressed for each environmental issue area identified above are discussed in the following subsections.

3.1.1.1. Environmental Setting

This subsection presents the existing environmental conditions at the site and in the surrounding area as appropriate (i.e., the "baseline") that are relevant to the issues under evaluation, in accordance with section 15125 of the State CEQA Guidelines. The baseline conditions reflect the conditions around the time of the issuance of the NOP and are used for comparison to establish the type and extent of the potential environmental impacts. For purposes of these discussions, the term "Project area" refers to the site of the proposed Project, shown on Figure 2-2, and the immediate-vicinity around the Project where Project impacts could affect the environment. The extent of the affected environment can vary depending on the resource being considered and the nature and characteristics of the resource. For example, Aesthetics considers the entire viewshed, which is based on topography and distance, while Traffic and Transportation considers road characteristics and traffic volumes near the Project site. The Environmental Setting in each resource discussion identifies the extent of the area considered for that resource. Within the parcels comprising the Project area-parcels, the development footprint consists of the areas within the fenceline where the solar facility, on-site substation, and BESS would be constructed.

The information and data used to prepare the Environmental Setting were obtained from several sources including the Desert Center Area Plan, County of Riverside General Plan, and CDCA Plan, as

Amended. In addition, information was obtained from various BLM planning documents, research publications prepared by various federal and State agencies, and private sources pertaining to key resource conditions found within the Project area. The discussions in this section were also informed by the surveys and studies conducted for the Project, as noted throughout this section.

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3.1.1.2. Regulatory Framework

This subsection presents information on the laws, regulations, plans, and policies that relate to the issue area being discussed. Regulations originating from local, state, and federal levels are discussed as appropriate.

The information and data used to prepare the Regulatory Framework were obtained from the same sources listed above under Environmental Setting.

3.1.1.3. Methodology for Analysis

The Methodology for Analysis subsections describe the process of analyzing the effects of the Project. In assessing impacts, this EIR presumes that existing regulations and other public agency requirements that have been incorporated into the Project will be implemented.

3.1.1.4. Application of CEQA Significance Thresholds

The CEQA Significance Criteria subsection describes the criteria used to determine which impacts should be considered potentially significant. Significance thresholds are based on criteria identified in Appendix G of the State CEQA Guidelines (Cal. Code Regs. tit. 14, div. 6, chapter 3, §§ 1500-15387). Other federal, state, or local standards, such as significance criteria from the County of Riverside's Environmental Assessment form, are also taken into account when defining significance thresholds.

3.1.1.5. Impact Analysis

The Impact Analysis subsection presents an assessment of the identified direct and indirect impacts and discloses the level of significance for each impact. The analysis in Chapter 3 applies to the construction, operations, and decommissioning of the Project as a whole unless specifically stated. A significant impact is defined under CEQA as "a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project" (State CEQA Guidelines § 15382). The terms "effect" and "impact" used in this document are synonymous and can refer to effects that are either adverse or beneficial.

Direct effects	Effects caused by the proposed Project that occur at the same time and place as the proposed Project
Indirect effects	Effects caused by the proposed Project that occur later in time, or further in distance, but are still reasonably foreseeable
Residual impacts	Impacts that still meet or exceed significance criteria after application of mitiga- tion and, therefore, remain significant
Cumulative impacts	Impacts resulting from the proposed Project when combined with similar effects of other past, present, and reasonably foreseeable future projects, regardless of which agency or person undertakes such projects (cumulative impacts could result from individually insignificant but collectively significant actions taking place over time)

Short-term impacts	Impacts expected to occur during construction or decommissioning that do not have lingering effects for an extended period after the activity is completed
Long-term impacts	Impacts that would persist for an extended period of time

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The significance of each impact is determined based on an analysis of the impact, compliance with any recommended mitigation measures, and the level of impact remaining compared to the applicable significance criteria. Impacts are classified as one of the five categories listed below.

Significant and Unavoidable	A substantial or potentially substantial adverse change from the environmental baseline that meets or exceeds significance criteria, where either no feasible mitigation can be implemented, or the impact remains significant after implementation of mitigation measures			
Less than Significant with Mitigation	A substantial or potentially substantial adverse change from the environmental baseline that can be avoided or reduced to below applicable significance thresholds			
Less than Significant	An adverse impact that does not meet or exceed the significance criteria of a particular environmental issue area and, therefore, does not require mitigation			
Beneficial	An impact that would result in an improvement to the physical environmen relative to baseline conditions			
No Impact	A change associated with the project that would not result in an impact to the physical environment relative to baseline conditions			

The analysis in this EIR is prepared with the understanding that the Applicant would obtain all required permits and approvals from other agencies and comply with all legally applicable terms and conditions associated with those permits and approvals. Implementation of the Project, which is described in Section 2, Description of the Proposed Project and Alternatives, including implementation of mitigation measures and Applicant Proposed Measures (APMs) identified to reduce or avoid significant adverse impacts, would be monitored in accordance with a Mitigation Monitoring and Reporting Program (MMRP, summarized below).

3.1.1.6. Cumulative Impacts

The Cumulative Impacts subsection describes effects that may be individually limited but cumulatively considerable when measured along with other approved, proposed, or reasonably foreseeable future projects. Please refer to Section 3.1.2 for a detailed discussion regarding the cumulative impact approach and scenario.

3.1.1.7. Impacts of Alternatives

Pursuant to State CEQA Guidelines section 15126.6, an EIR must describe and evaluate a range of reasonable alternatives that would feasibly attain most of the project's basic objectives and would avoid or substantially lessen any of the significant impacts of the project as proposed. The range of alternatives is governed by the "rule of reason," that is, an EIR needs to describe and evaluate only those alternatives necessary to permit a reasoned choice and to foster informed decision-making and public participation. (State CEQA Guidelines, § 15126.6, subd. (f)) Section <u>54</u>, <u>Analysis and</u> Comparison of Alternatives, describes <u>analyzes the</u> alternatives to the proposed Project, <u>which are described in Section 2.8</u>, and includes the impact analysis for each alternative scenario considered, <u>compares the alternatives evaluated to the</u> <u>proposed Project</u>, and identifies the Environmentally Superior Alternative.

3.1.1.8. Mitigation Measures and Mitigation Monitoring and Reporting Program

An EIR is required to indicate the way any significant effects on the environment of a project can be mitigated or avoided; a governmental agency must prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives (discussed below) or mitigation measures when the agency finds the changes to be feasible. (CEQA, § 21002.1, subd. (a) & (b); State CEQA Guidelines, § 15002, subd. (a).) Implementation of multiple mitigation measures may be needed to reduce an impact to a less-than-significant level. Impacts that still meet or exceed significance criteria after application of mitigation measures are considered residual impacts that remain significant.

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Under CEQA, the lead agency must adopt a reporting or monitoring program for any changes made to the project or conditions of project approval adopted to mitigate or avoid significant effects on the environment (i.e., MMP). (CEQA, § 21081.6, subd. (a)(1).) The impact sections throughout Section 3, and the MMRP included in the Final EIR, identify all mitigation measures to reduce significant impacts. The County would ensure implementation of all mitigation measures.

3.1.1.9. Residual Impacts After Mitigation

The Significance after Mitigation subsection indicates the significance of the impact and whether impacts would remain even after application of the proposed mitigation measures. Any impacts that cannot be eliminated or reduced to a level of less than significant are considered residual impacts of the proposed Project.

3.1.2. Cumulative Impact Scenario

Within the framework identified above, the cumulative impacts scenario requires special consideration. This analysis takes into account a variety of parameters that the EIR must establish and further explain the reasons for selecting certain parameters (scope of the impact area, etc.). The following discussion explains the factors relied on to frame the cumulative impacts analysis in this EIR.

3.1.2.1. CEQA Requirements for Cumulative Impact Analysis

CEQA defines cumulative impacts as "two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts." (State CEQA Guidelines § 15355; see also Pub. Resources Code § 21083, subd. (b).) Stated another way, "a cumulative impact consists of an impact which is created as a result of the combination of the project evaluated in the EIR together with other projects causing related impacts." (State CEQA Guidelines § 15130, subd. (a)(1).)

State CEQA Guidelines section 15130 requires that an EIR discuss cumulative impacts of a project when the project's incremental effect is "cumulatively considerable." The definition of cumulatively considerable, provided in section 15065(a)(3), means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.

According to section 15130(b) of the State CEQA Guidelines: "[t]he discussion of cumulative impacts shall reflect the severity of the impacts and their likelihood of occurrence, but the discussion need not provide as great detail as is provided for the effects attributable to the project alone. The discussion should be guided by standards of practicality and reasonableness and should focus on the cumulative impact to which the identified other projects contribute rather than the attributes of other projects, which do not contribute to the cumulative impact."

For purposes of this EIR, the proposed Project would cause a cumulatively considerable and therefore significant contribution to a cumulative impact if:

- The cumulative effects of other past, current, and probable future projects without the Project are not significant and the Project's incremental impact is substantial enough, when added to the cumulative effects, to result in a significant cumulative impact; or
- The cumulative effects of other past, current, and probable future projects without the Project are already significant and the Project would result in a cumulatively considerable contribution to the already significant effect. The standards used herein to determine whether the contribution is cumulatively considerable include the existing baseline environmental conditions, and whether the project would cause a substantial increase in impacts, or otherwise exceed an established threshold of significance.

3.1.2.2. Methodology for Cumulative Impact Analysis

State CEQA Guidelines Section 15130 provides that the following approaches can be used to adequately address cumulative impacts:

- List Method A list of past, present, and probable future projects producing related or cumulative impacts, including, if necessary, those projects outside the control of the agency.
- Regional Growth Projections Method A summary of projections contained in an adopted general plan or related planning document, or in a prior environmental document which has been adopted or certified, which described or evaluated regional or area wide conditions contributing to the cumulative impact. Any such planning document shall be referenced and made available to the public at a location specified by the Lead Agency; or

This EIR uses the list method, identifying past, present, and probably future projects.

Consistent with CEQA, the cumulative analysis uses a two-step approach. The first step determines whether the combined effects from the proposed Project and other projects would be cumulatively significant. This was done by adding the proposed Project's incremental impact to the anticipated impacts of other probable future projects and/or reasonably foreseeable development. Where the analysis determines that the combined effect of the projects and/or projected development would result in a significant cumulative effect, the second step evaluates whether the proposed project's incremental contribution to the combined significant cumulative impact would be cumulatively considerable as required by State CEQA Guidelines section 15130, subdivision (a).

State CEQA Guidelines section 15064, subdivision (h)(4), states that "[t]he mere existence of significant cumulative impacts caused by other projects alone shall not constitute substantial evidence that the proposed project's incremental effects are cumulatively considerable." Therefore, it is not necessarily true that, even where cumulative impacts are significant, any level of incremental contribution must be deemed cumulatively considerable by the lead agency. If a proposed project's individual impact is less than significant; however, its contribution to a significant cumulative impact could be deemed cumulatively considerable depending on the nature of the impact and the existing environmental setting. If, for example, a proposed project is located in an air basin determined to be in extreme or severe nonattainment for a particular criteria pollutant, a project's relatively small contribution of the same pollutant could be found to be cumulatively considerable. Thus, depending on the circumstances, an impact that is less than significant when considered individually may still be cumulatively considerable in light of the impact caused by all projects considered in the analysis.

3.1.2.3. Cumulative Scenario

Geographic Scope

The geographic area affected by the Project and its potential to contribute to cumulative impacts varies based on the environmental resource. Generally, the geographic area associated with the environmental effects of the Project defines the boundaries of the area used for compiling the list of past, present and reasonably foreseeable future related projects considered in the cumulative impact analysis. The geographic scope of each analysis is based on the topography surrounding the Project area and the natural boundaries of the resource affected, rather than jurisdictional boundaries. The geographic scope of cumulative effects will often extend beyond the scope of the direct effects of a proposed project, but not beyond the scope of the direct and indirect effects of that proposed project. For example, the air quality analysis includes consideration of regional air emissions (e.g., reactive organic gases [ROG]/nitrogen oxides [NOx] and particulate matter [PM]) and therefore includes the entire air basin. Conversely, in the case of noise impacts, which are localized impacts, a smaller area surrounding the immediate site is appropriate for consideration. The geographic areas included within this analysis for purposes of determining whether the Project's contribution to a particular impact would be cumulatively considerable and therefore significant are:

- Aesthetics: One-mile area around the perimeter of the solar facilities and gen-tie line
- Agriculture and Forestry: Desert Center area
- Air Quality: Mojave Desert Air Basin
- Biological Resources: A large portion eastern Riverside County that consists of similar habitats as found in the Project site and immediate vicinity
- Cultural Resources: Desert Center area
- Energy: Global
- Geology, Soils, and Mineral Resources: Eastern Riverside County
- Greenhouse Gas Emissions: Global
- Hazards and Hazardous Materials, including Wildfire: Areas extending one mile from the boundary of the Project site
- Hydrology and Water Quality: Chuckwalla Hydrologic Unit
- Land Use and Planning: Eastern Riverside County
- Noise: Area extending 0.5 miles from the boundary of the Project site for noise and 200 feet from the boundary of the Project site for vibration
- Paleontological Resources: All projects on the same geologic units within Eastern Riverside County, including Holocene alluvium, Pleistocene alluvium, and dry desert washes
- Population and Housing: Areas within a 2-hour commute to the Project site
- Public Services and Utilities: The service areas of each of the providers serving the Project
- Recreation: 20-mile area around the perimeter of the solar and BESS facility
- Traffic and Circulation: The study roadways and intersections and I-10. For aviation safety, the geographic study area is 20,000 feet, because that is the area where there would be potential impacts to the Desert Center Airport.

Temporal Scope

This cumulative impact analysis considers other projects that have been recently completed, are currently under construction, or are reasonably foreseeable (e.g., for which an application has been submitted or known to be in preparation). Both short-term and long-term cumulative impacts of the proposed Project, in conjunction with other cumulative projects in the area, are evaluated in this section of the EIR.

The schedule and timing of the proposed Project and other cumulative projects is relevant to the consideration of cumulative impacts. Each project in a region will have its own implementation schedule, which may or may not coincide or overlap with the construction schedule for the Easley Project. This is a consideration for short-term impacts from the proposed Project. However, to be conservative, the cumulative analysis assumes that all projects in the cumulative scenario are built and operating during the operating lifetime of the proposed Project.

Cumulative Projects

Desert Center Area Plan. As part of the Riverside County General Plan Update (2015), the County updated the Desert Center Area Plan. The Desert Center Land Use Plan reflects the limited development potential in this region. The Area Plan designates most of the area Open Space-Rural, with some agriculture, rural residential, and other low-density residential and commercial opportunities. The Area Plan notes that future development on the private land should focus on infill and contiguous expansion of the existing communities at Desert Center and Lake Tamarisk but is likely to be limited (Riverside County, 2015). This information was taken into consideration by the authors when drafting the cumulative analysis, as it indicates limited development on private land.

Tables 3.1-1 and 3.1-2 include the list of cumulative projects in the Desert Center and Blythe region. These projects are shown on Figure 3.1-1.

Table 3.1-1.	Past and Present Projects or Programs in the Project Area
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ID	Project Name; Agency ID	Location	Ownership	Status	Acres	Project Description
1	West-wide Section 368 Energy Corridors	Riverside County, parallel to I-10	BLM, DOE, U.S. Forest Service	Approved by BLM & USFS, additional review of Region 1 ongoing.	N/A	Designation of corridors on federal land in the 11 western states, including California, for oil, gas, and hydrogen pipelines and electricity transmission and distribution facilities (energy corridors). One of the corridors runs along the southern portion of Riverside County.
2	Blythe PV Project	Blythe	Clearway Energy	Operational	200	21 MW solar PV project located on 200 acres outside of Blythe.
3	McCoy Solar Project	Blythe	NextEra	Operational	8,100	An up to 750 MW solar PV project located primarily on BLM administered land about 13 miles north of Blythe. Includes a 16-mile gen- tie line. 250 MW began operation in June 2016 but it does not have a schedule for the remaining 500 MW.
4	Genesis Solar Energy Project	North of I-10, 25 miles west of Blythe and 27 miles east of Desert Center	NextEra	Operational	1,950	250 MW solar trough project north of the Ford Dry Lake. Project includes six-mile natural gas pipeline and a 5.5-mile gen-tie line to the Blythe Energy Center to Julian Hinds Trans- mission Line, then east on shared transmis- sion poles to the Colorado River Substation.
5	Blythe Solar Power Project	Blythe	NextEra	Operational	4,100	485 MW solar PV project located 2 miles north of I-10 and 8 miles west of the City of Blythe on BLM land. A 230 kV gen-tie line connects the solar energy generating facility to the SCE Colorado River Substation.
6	Desert Sunlight Solar Project	6 miles north of Desert Center	NextEra	Operational	4,400	550 MW solar PV project located on BLM land. The project includes a 230 kV transmis- sion line that extends south from the site to interconnect with the Red Bluff Substation
7	SCE Red Bluff Substation	Southeast of Desert Center	SCE	Operational	75	220/500 kV substation to interconnect renew- able projects near Desert Center to the Devers–Palo Verde (DPV) transmission line.
8	Devers–Palo Verde No. 1 Transmission Line	Palo Verde, Arizona, to Devers Substation near Palm Springs	SCE	Operational	N/A	Existing 500 kV transmission line parallel to I-10 from Arizona to the SCE Devers Substation, near Palm Springs. DPV1 loops into the SCE Colorado River Substation which is located 10 miles southwest of Blythe.

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ID	Project Name; Agency ID	Location	Ownership	Status	Acres	Project Description
9	Devers–Colorado River Transmission Line	From Blythe to Devers Substation near Palm Springs	SCE	Operational	N/A	Existing 500 kV transmission line parallel to the I-10 from the SCE Colorado River Substation to the Devers Substation. ROW requires 130 feet on federal, state, and private land.
10	Blythe Energy Project Transmission Line	From Blythe to Julian Hinds Substation	Blythe Energy, LLC	Operational	N/A	Existing 230 kV transmission line.
11	SCE Colorado River Substation	Blythe	SCE	Operational	90	500/230 kV substation located east of Blythe. Includes 108-foot-high dead-end structures. Outdoor night lighting is designed to illumi- nate the switchrack when manually switched on.
12	NRG Blythe II	Blythe	Clearway Energy	Operational	150	20 MW solar PV facility next to Clearway's 21 MW Blythe Project that came online in spring 2017.
13	Desert Harvest Solar Project	North of Desert Center	EDF-RE	Operational	1,208	150 MW solar PV project located immediately south of the Desert Sunlight project. The gen- tie route would parallel the existing Desert Sunlight line to interconnect with the existing SCE Red Bluff Substation.
14	Palen Solar Project	East of Desert Center	EDF-RE	Operational	3,400	457 MW solar PV and energy storage facility located 11 miles east of Desert Center on BLM-administered land. Includes a 6-mile gen- tie line that connects into SCE Red Bluff Substation.
15	Desert Quartzite Solar Project	South of I-10, 8 miles southwest of Blythe	Desert Quartzite LLC (First Solar)	Operational	3,770	300 MW solar PV and 600 MWh energy storage facility with a project substation, access road, and transmission line, all located on BLM land.
16	Crimson Solar Project	South of I-10, 8 miles southwest of Blythe	Sonoran West Solar Holdings, LLC (Recurrent Energy)		2,500	350 MW solar PV project located on BLM land. The project interconnects to the SCE Colorado River Substation.
17	Blythe Mesa Solar Project	East of Blythe	Blythe Mesa Solar II, LLC	Operational	3,600	485 MW solar PV project located outside Blythe on private land. The gen-tie line crosses BLM land to reach the SCE Colorado River Substation.
18	Athos Renewable Energy Project	Desert Center	Soft Bank Energy	Operational	3,400	500 MW solar PV and energy storage facility project located on private land in unincorpor- ated Riverside County. Portions of the gen-tie line cross public land to reach the SCE Red Bluff Substation.

ID	Project Name; Agency ID	Location	Ownership	Status	Acres	Project Description
19	Oberon Renewable Energy Project	Northeast of Desert Center	IP Oberon, LLC	Operational	2,600	500 MW solar PV and energy storage facility on BLM-administered land. A 0.5-mile 500 kV gen-tie line connects into SCE Red Bluff Substation.
20	Ten West Link Transmission Line	From the Colorado River Substation in Blythe California west to Tonopah Arizona	Abengoa Transmission & Infrastructure, LLC, and Starwood Energy Group Global, Inc.	Approved by BLM in November 2019. Under construction.	N/A	500 kV transmission line from Tonopah, Arizona, to Blythe, California. It spans 114 miles, with all but 17 miles of the line in the Arizona counties of Maricopa and La Paz and - the remainder in Riverside County, CA.
21	Victory Pass Solar Project	4.5 miles east of Desert Center, adjacent to north side of I-10	Clearway Energy Group, LLC	Approved by BLM in December 2021. Under construction.	1,800	200 MW of solar energy with up to 200 MW of battery storage on BLM-administered land. A shared overhead 230 kV gen-tie line with Arica Solar Project connects to SCE Red Bluff Substation.
22	Arica Solar Project	Adjacent to north side of Victory Pass project, 5 miles east-northeast of Desert Center	Clearway Energy Group, LLC	Approved by BLM in December 2021. Under construction.	2,000	265 MW solar PV project with up to 200 MW of battery storage. A shared overhead 230 kV gen-tie line with Victory Pass Solar Project connects to SCE Red Bluff Substation.

1 - The data shown on Figure 3.1-1 for the Development Focus Areas, ACECs, and NLCS was taken from the DRECP Final EIS. Source: RWQCB, 2021.

Table 3.1-2. Probable Future Projects in the Project Area

ID	Project Name; Agency ID	Location	Ownership	Status	Acres	Project Description
A	Desert Southwest Transmission Line	118 miles primarily parallel to the Devers– Palo Verde 500 kV line	Imperial Irrigation District	Final EIR/EIS prepared in 2005, approved by the BLM in 2006.	N/A	~118-mile 500 kV transmission line from a new substation near the Blythe Energy Project to the existing Devers Substation located 10 miles north of Palm Springs, CA.
В	Palo Verde Mesa Solar Project	East of Blythe, near Neighbors Boulevard	Renewable Resources Group	Approved by Riverside County in August 2017.	3,250	465 MW PV solar plant on 50 parcels totaling 3,250 acres, primarily on agriculture land. Gen-tie line is approximately 11.8 miles to the Colorado River Substation.
С	Eagle Mountain Pumped Storage Project	Eagle Mountain iron ore mine, north of Desert Center	Eagle Crest Energy Company	FERC License <u>#13123</u> issued June 2014. Project approved by BLM in August 2018.	90	1,300 MW pumped storage project designed to store off-peak energy to use during peak hours. The off-peak energy would be used to
				On April 12, 2022, FERC issued an order granting an extension of project		pump water to an upper reservoir. The water is released to a lower reservoir through an underground electrical generating facility.

ID	Project Name; Agency ID	Location	Ownership	Status	Acres	Project Description
				construction deadlines to commence project construc- tion by June 19, 202 <u>8</u> 4, and the extended deadline to complete project construc- tion is June 19, 20 <u>31</u> 27 .		
D	Sapphire Solar Project	Adjacent to Easley Project; northeast of Desert Center	EDF-RE	Under review by BLM (CACA 59623) and Riverside County (SCH 2023-05-0303).	1,123	117 MW solar PV project on 1,082 acres private land. The gen-tie line and access roads would cross BLM-administered land to connect into Desert Harvest Substation/Red Bluff Substation.
E	Lycan Solar Project	South of I-10, southeast of Desert Center and west of Blythe.	EDF-RE	Under review by BLM (CACA 59265).	6,944	600 MW solar PV project on BLM- administered land that would connect into Red Bluff Substation
F	Calypso I Solar Project	South of I-10, west of Blythe	EDF-RE	Under review by BLM (CACA 059319).	3,271	300 MW solar PV project on BLM- administered land that would connect into the Colorado River Substation.
G	Calypso II Solar Project	South of I-10, southwest of Blythe	EDF-RE	Under review by BLM (CACA 059320).	2,133	300 MW solar PV project on BLM- administered land that would connect into the Colorado River Substation.
Н	Redonda Solar Project	East of Desert Center	Clearway Energy Group, LLC	Under review by BLM (CACA 059387).	3,483	250 MW solar PV project that would connect into the Arica and Victory Pass Substation.
I	Skybridge Eagle Moun- tain Hydrogen Project; Riverside County	7.5 miles northwest of Desert Center	Skybridge Energy, LLC	CUP Application filed with Riverside County in 2022.	133	50 MW solar PV facility to support 50 MW hydrogen electrolyzer generation.
l	Joshua Tree National Park Proposed Expansion	Adjacent to Joshua Tree National Park and northwest of Desert Center	Proposed by U.S. Rep. Raul Ruiz (25 th Congressional District)	Under congressional consi- deration as the Chuckwalla National Monument Estab- lishment and Joshua Tree National Park Expansion Act of 2023	17,000	Proposed expansion to Joshua Tree National to the east in the Eagle Mountain area.
К	Chuckwalla National Monument	Riverside and Imperial Counties	Proposed by U.S. Rep. Raul Ruiz (25 th Congressional District)	Under congressional consi- deration as the Chuckwalla National Monument Estab- lishment and Joshua Tree National Park Expansion Act of 2023	700,000	Proposed national monument along Joshua Tree National Park's southern boundary, stretching along I-10 from the edge of the eastern Coachella Valley to the Colorado River.

ID	Project Name; Agency ID	Location	Ownership	Status	Acres	Project Description
L	<u>Colorado River-Red Bluff</u> 500 kV #1 Line Upgrade	<u>Blythe to</u> Desert Center, CA	<u>Southern</u> <u>California</u> <u>Edison</u>	CAISO approved, expected in service 2027; pending filing California Public Utilities Commission (CPUC) application.	<u>N/A</u>	Increase to line rating found to be needed for the CPUC's resource portfolio, as studied in CAISO's 2022-2023 Transmission Plan (Board Approved May 18, 2023).
M	Devers-Red Bluff 500 kV #1 and #2 Lines Upgrade	<u>Desert Center to near</u> <u>Palm Springs, CA</u>	<u>Southern</u> <u>California</u> <u>Edison</u>	CAISO approved, expected in service 2030; pending filing CPUC application.	<u>N/A</u>	Increase to line rating found to be needed for the CPUC's resource portfolio, as studied in CAISO's 2022-2023 Transmission Plan (Board Approved May 18, 2023).

Source: RWQCB, 2021; CAISO, 2024.

3.2. Aesthetics

Aesthetics, as addressed in the California Environmental Quality Act (CEQA), refers to visual considerations in the physical environment. Specifically, such considerations include the elements of the landscape that contribute to the aesthetic and/or scenic character and quality of the environment. These elements can be either natural or man-made. Landforms, water, and vegetation patterns are among the natural landscape features that define an area's visual character and quality, whereas buildings, roads, and other structures reflect human modifications to the landscape. These natural and built landscape features are considered visual or aesthetic resources that contribute to the public's experience and appreciation of the environment.

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This section describes the regulatory framework, environmental setting, and aesthetic impacts associated with the proposed Project and alternatives. This section also identifies the mitigation measures necessary to avoid or reduce any significant adverse aesthetic impacts that would result from Project implementation. <u>An impact analysis and comparison of project alternatives is included in Section 5.</u> All figures referenced in this section are presented in sequence in Appendix I.

The following paragraphs review some of the key terms used in this section.

The term Aesthetics (as defined above) is generally considered interchangeable with the term Visual Resources. Throughout this section, the use of the term Aesthetics will generally be adhered to though, in a few cases, the term Visual Resources is also used for greater specificity. The reader can view these terms as interchangeable and equal.

The title of the project being analyzed is Easley Renewable Energy Project. In this section, the title is shortened to Project (typically used) and proposed Project (occasionally used) and are distinct from references to the alternatives. Again, the reader can view the terms Project and proposed Project as interchangeable and equal.

There are several locational or area terms that are used throughout this Aesthetics section. Regional Landscape generally refers to the arid desert of southeastern California within which the Chuckwalla Valley and surrounding mountains are located. This is the largest geographic area referenced in the section. The term Viewshed is discussed in greater detail in Section 3.2.1.3 but generally refers to all areas from which some component of the Project may be seen. For the Project, this generally means the western and central portions of the Chuckwalla Valley and the surrounding, Project-facing mountain slopes and ridges.

The terms Project area or Area are imprecise references to the land area from which the Project would typically be viewed. In the present case, the Project area or Area would generally consist of the broader central portion of the Chuckwalla Valley where the Project would be located. Immediate Project Area simply refers to the area(s) in close proximity or adjacent to the Project facilities.

The terms Project Site or Site refer to the collective location of the various land parcels and routes where Project facilities would be situated. These terms are interchangeable and equal.

The terms Solar Facilities, Solar Arrays, or Array Field(s) are used to refer to the collective locations of solar panels and associated facilities (but not the generation tie [gen-tie] line). These terms are interchangeable and equal.

3.2.1. Environmental Setting

3.2.1.1. Regional Landscape

The Project landscape is part of the Great Basin section of the Basin and Range physiographic province, a vast desert area of the western U.S. extending from eastern Oregon to western Texas, characterized by periodic north-south trending, highly eroded mountain ranges that rise sharply from, and are separated by, broad, flat desert valleys. The topography of the basin is relatively flat with occasional desert washes. The Project region marks the transition zone between the high elevation Mojave Desert to the north and the arid, lower elevation Sonoran Desert to the south and east. The Project is located in Chuckwalla Valley in eastern Riverside County. The Chuckwalla Valley is a broad, flat desert plain that includes scattered dry lakes and rolling sand dunes and is bordered by a number of rugged mountain ranges including the Eagle Mountains to the west and north, the Coxcomb and Granite mountains to the north, the Palen Mountains to the northeast, and the Chuckwalla Mountains to the south. The rugged ridges, angular forms, and bluish hue of the surrounding mountains provide a contrast of visual interest to the flat, light-colored, horizontal landform of the Chuckwalla Valley floor and Project site. Views within Chuckwalla Valley tend to be expansive in scope and capture a landscape that appears in transition from a predominantly natural-appearing desert landscape to that of a developed energy zone characterized by numerous solar energy projects and electric transmission lines.

3.2.1.2. Project Site

The Project <u>solar and BESS facility</u> site is located on approximately 3,735 acres of private land and public lands administered by the U.S. Department of Interior, Bureau of Land Management (BLM), collectively situated on both sides of State Route 177 (SR-177), approximately two miles north of Desert Center in Riverside County. The Project area is rural, non-urban in nature. The private parcels consist of primarily man-made features that include deciduous orchard/fallow agriculture or developed areas. The BLM-administered lands (the majority of the acreage) are primarily intact, consisting mainly of desert scrub (largely scattered creosote bushes). While the area surrounding the Project site is very lightly populated, and most of the lands making up the Project site are presently undeveloped, the Lake Tamarisk Desert Resort is located immediately to the west and south of the site and within 0.15 mile of the nearest proposed solar arrays. There are several desert washes that pass through or adjacent to the Project site, indicated primarily by associated vegetation (e.g., desert dry wash woodlands). While all lands have scenic value, areas with the most variety and most harmonious composition have the greatest scenic value. The relatively flat desert landscape of the Project site has a low level of variety and distinctiveness, exhibiting limited variation in form, line, color palette, and texture that is common to the region.

The vegetation on the Project site and in the Project area appears relatively non-descript and subdued in color. Although the distant mountain ranges that surround the Chuckwalla Valley provide backdrops of visual interest, the Project site's landscape is generally lacking in visual variety and scenic quality and is substantially influenced by the abundance of anthropogenic modifications in the Project area including several adjacent or nearby solar projects (either operational or under construction); numerous transmission lines; Red Bluff Substation; Interstate 10 (I-10); scattered residences and built structures; 4-wheel drive tracks and access roads throughout the area; and SR-177 that passes through the eastern portion of the Project site. Overall, the existing scenic quality of the Project site appears common to the region and would correspond to the BLM Visual Resource Management (VRM) Scenic Quality Classification C (i.e., low scenic value).

The BLM-administered public lands that would host solar arrays and associated facilities and the gen-tie line are located within a Development Focus Area (DFA) per the 2016 Desert Renewable Energy Conservation Plan (DRECP) Land Use Plan Amendment (LUPA), which allows activities associated with solar,

wind, and geothermal development, as well as operation and decommissioning (BLM, 2016). Therefore, the public lands hosting Project facilities have been assigned VRM Class IV under the BLM's VRM System since the LUPA assigns VRM Class IV to DFAs.

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As defined in BLM Manual H-8410-1 Visual Resource Inventory (BLM, 1986a), the VRM Class IV management objective is:

"...to provide for management activities, which require major modification of the existing character of the landscape. The level of change to the characteristic landscape can be high. These management activities may dominate the view and be the major focus of viewer attention. However, every attempt should be made to minimize the impact of these activities through careful location, minimal disturbance, and repeating the basic elements in the predominant natural features of the characteristic landscape."

3.2.1.3. Viewshed and Potentially Affected Viewers

The viewshed or area of potential visual effect (the area within which the Project could potentially be seen) is extensive and encompasses much of Chuckwalla Valley and the Project site-facing slopes and ridgelines of the surrounding mountains including areas within Joshua Tree National Park (JTNP). Figure 3.2-1A illustrates the visibility of the Project. However, this viewshed map is based solely on "line-of-site" terrain models that do not account for possible vegetation or structural screening. A notable feature of this flat desert landscape is the potential for large projects to be seen over great distances. This is due to the expansive areas of level topography and absence of intervening landscape features. However, due to the relatively low profile of the solar panels and the flat topographic character of Chuckwalla Valley, the majority of viewers would be located at elevations similar to that of the Project, and the views would typically be limited to the edges of the solar fields. The exception would be for the more elevated views available from Alligator Rock or portions of JTNP (see next paragraph) and other surrounding mountain ranges. Elevated (or superior) views from these locations would have the potential to see "into" the array fields. However, the typical viewing distance zone that most viewers would experience within the Project area is foreground/middleground (under five miles) due to the relatively close proximity of I-10, SR-177, and other Project area viewpoints to the Project facilities.

There are a number of sensitive land uses and protected areas within the expansive Project viewshed including Desert Lily Sanctuary Area of Critical Environmental Concern (ACEC), Palen Dry Lake and Sand Dunes Area, and Palen-McCoy Wilderness to the northeast; Palen Dry Lake ACEC and Ford Dry Lake Offhighway Vehicle Area to the east; Chuckwalla Mountains Wilderness to the south; Alligator Rock ACEC and Desert Center to the southwest; Lake Tamarisk Desert Resort to the south and west; and JTNP to the north and west.

Potentially affected viewers within the Project area include: (1) residential viewers in Lake Tamarisk Desert Resort and dispersed rural residences; (2) recreational visitors to ACECs, wilderness areas, and open public lands; and (3) travelers along the main transportation corridors (I-10 and SR-177). All three viewing groups are considered to have generally high visual sensitivity with high expectations for maintaining the existing landscape conditions. The introduction of new <u>or additional</u> features exhibiting industrial character would typically be perceived as an adverse visual change.

3.2.1.4. Representative Key Observation Points (KOPs) and Landscape Setting Assessments

Representative KOPs

KOPs are representative, stationary viewing locations selected for the purpose of analyzing and describing existing visual resources in the Project area and for preparing visual simulations and contrast rating analyses. KOPs were generally selected to be representative of the most critical or typical public viewing

locations from which the Project would be seen (see Section 3.2.1.3 above). KOP locations were selected at various vantage points based on their usefulness in evaluating existing landscapes and potential impacts on the affected viewing populations. Typical KOP locations for the Project include: (1) major or significant travel corridors or points of visual access; (2) residential areas; (3) significant recreation areas; (4) locations that capture both the solar arrays and the gen-tie line; and (5) locations that capture different viewing distances and view orientation. At each KOP, the existing landscape was characterized and photographed. With the exception of KOP 4, photographs are presented as 8.5" x 15.25" color images at "life-size scale" when viewed at a standard reading/viewing distance of 18 inches (i.e., when the image is held at a distance of 18 inches from the eye, all landscape features in the images would appear to be the same scale and size as they would appear in the field at the viewpoint location). A panoramic view is presented for KOP 4, resulting in an image size of 8.5" x 37".

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S<u>even</u>ix KOPs were selected to characterize the local setting and the visual contrast caused by the Project. KOP locations and view directions are shown on the KOP map presented as Figure 3.2-1B and are listed below.

- KOP 1: Eastbound I-10, approximately 1.6 miles west of the Desert Center/SR-177 overpass. This view to the north captures the western portion of the greater Chuckwalla Valley in the vicinity of SR-177 (see Figures 3.2-2A/2B).
- KOP 2: Westbound I-10, approximately 1.9 miles east of the Desert Center/SR-177 overpass. This view to the northwest captures the western portion of the greater Chuckwalla Valley in the vicinity of SR-177 (see Figures 3.2-3A/3B) but from a westbound perspective.
- KOP 3: Alligator Rock, just south of I-10 and approximately 0.5 mile southwest of Desert Center. This elevated view to the north captures the western portion of the greater Chuckwalla Valley in the vicinity of SR-177 (see Figures 3.2-4A/4B).
- KOP 4: Lake Tamarisk Desert Resort East, at the park and playground area near the eastern boundary of the resort. This view to the east captures much of the greater Chuckwalla Valley, though the view is partially screened from view by immediate foreground vegetation (see Figures 3.2-5A/5B).
- KOP 5: Northbound SR-177, approximately 1.5 miles northeast of Desert Center. This view up SR-177 captures the western portion of the greater Chuckwalla Valley in the vicinity of SR-177 (see Figures 3.2-6A/6B).
- KOP 6: Southbound SR-177, approximately five miles northeast of Desert Center. Though partially screened by roadside vegetation, this view to the southwest presents an expansive view of the western Chuckwalla Valley in the immediate vicinity of SR-177 (see Figures 3.2-7A/7B).
- KOP 7: Lake Tamarisk Desert Resort North, at the northern end of Shasta Drive along the northern boundary of the resort. This view to the north encompasses the northwestern portion of the greater Chuckwalla Valley east of Kaiser Road and west of SR-177 (see Figures 3.2-8A/8B in EIR Appendix I).

Landscape Setting Assessment

The following paragraphs describe the landscape setting viewed from each of the six seven KOPs.

KOP 1 – Eastbound I-10. This viewpoint is representative of the Project's views from eastbound I-10, which is a County Eligible Scenic Corridor. Figure 3.2-2A presents the existing view to the north from KOP 1, which is approximately 1.6 miles west of the Desert Center/SR-177 (Rice Road) overpass. The view presented in Figure 3.2-2A captures the western portion of the greater Chuckwalla Valley and most of the Project area between Kaiser Road to just east of SR-177 (Rice Road). This expansive view also captures several existing solar fields and a backdrop consisting of the horizontal angular forms of the Coxcomb and more distant Granite and Palen mountains, features that contribute visual interest to the views from I-10.

Landform colors range from light-tan to lavender and bluish hues at distance. Landform textures appear smooth to granular and coarse. Vegetation appears as patchy clumps to irregular and continuous forms at distance. Vegetation colors include tans and pale to golden yellow for grasses with muted greens, tans, and some reddish hues for shrubs. The most prominent structures in this view beyond the linear, diagonal form of I-10 are the noticeable foreground, vertical, wood utility poles and several existing solar fields that appear as dark horizontal streaks along the valley floor. From this viewing distance, the landscape of the Project site appears rather non-descript and generally lacking in visual variety, though the adjacent scenery (surrounding mountains) enhances the broader landscape scenic quality. The overall visual quality is low to moderate and common to the greater Chuckwalla Valley. The applicable VRM Class Rating is Class IV. The KOP 1 Contrast Rating Form is provided in Appendix I.

While motorists on I-10 heading east would enjoy scenic desert views across the western Chuckwalla Valley, motorists' views and sensitivity would be somewhat tempered by the Project's viewing context, which would include the discordant features of several solar projects that are either existing or under construction, as well as the associated gen-tie transmission lines. The resulting viewer concern would be moderate to high. Viewer exposure would be high given the high visibility of the Project site in the foreground-middleground, the high volumes of travelers on I-10, and the moderate to extended duration of view of the Project site. For viewers in the vicinity of KOP 1, combining the equally weighted low to moderate visual quality, moderate to high viewer concern, and high viewer exposure results in an overall rating of moderate to high for overall visual sensitivity of the visual setting and viewing characteristics.

KOP 2 – Westbound I-10. This viewpoint is representative of the Project's views from westbound I-10, which is a County Eligible Scenic Corridor. Figure 3.2-3A presents the existing view to the northwest from KOP 2, which is approximately 1.9 miles east of the Desert Center/SR-177 (Rice Road) overpass. The view presented in Figure 3A encompasses the western portion of the greater Chuckwalla Valley in the vicinity of SR-177. This expansive view also captures several existing solar fields (in the background) and gen-tie lines (in the foreground) backdropped by the horizontal to angular forms of the Eagle and Coxcomb mountains, features that contribute visual interest. Landform colors range from light tan to lavender and bluish hues at distance. Landform textures appear smooth to granular and coarse. Vegetation appears as patchy clumps to irregular and more continuous forms at distance. Vegetation colors include tans and pale to golden yellow for grasses with muted greens and tans with reddish hues for shrubs. The most prominent structures in this view beyond the roadside fencing adjacent to I-10 are the noticeable vertical, dark, rust-colored, tubular, Corten-steel, gen-tie poles associated with the existing solar projects that are also visible as dark horizontal streaks along the valley floor in the background. As noted previously, the landscape of the Project site is rather non-descript and generally lacking in visual variety, though the adjacent scenery (surrounding mountains) contributes visual interest to the views from westbound I-10 and enhances the broader landscape scenic quality. The overall visual quality is low to moderate and common to the greater Chuckwalla Valley. The applicable VRM Class Rating is Class IV. The KOP 2 Contrast Rating Form is provided in Appendix I.

While motorists on I-10 heading west would enjoy scenic desert views across the western Chuckwalla Valley, motorists' views and sensitivity would be somewhat tempered by the Project's viewing context, which would include the discordant features of several solar projects that are either existing or under construction, as well as the associated gen-tie transmission lines. The resulting viewer concern would be moderate to high. Viewer exposure would be high given the high visibility of the Project site in the foreground-middleground, the high volumes of travelers on I-10, and the moderate to extended duration of view of the Project site. For viewers in the vicinity of KOP 2, combining the equally weighted low to moderate visual quality, moderate to high viewer concern, and high viewer exposure results in an overall rating of moderate to high for overall visual sensitivity of the visual setting and viewing characteristics.

KOP 3 – Alligator Rock ACEC. This viewpoint is representative of the Project's views from the slightly elevated crest of Alligator Rock in the Alligator Rock ACEC. Figure 3.2-4A presents the existing view to the

north-northeast from KOP 3, on the crest of Alligator Rock. The view presented in Figure 3.2-4A overlooks the central portion of Desert Center and the western portion of the greater Chuckwalla Valley in the vicinity of SR-177, north of I-10. This expansive view also captures several existing solar fields (operational or under construction) and the associated gen-tie transmission lines, the Lake Tamarisk Desert Resort, and a backdrop consisting of the horizontal to angular forms of the Coxcomb and Granite mountains, features that contribute visual interest to the landscape. Landform colors range from light tan to lavender and bluish hues at distance. Landform textures appear smooth to granular and coarse. Vegetation appears as patchy clumps to irregular and continuous forms at distance. Vegetation colors include tan and pale to golden yellow for grasses and muted greens with reddish hues for shrubs. The most prominent built features in this view are the linear, diagonal forms of eastbound and westbound I-10 (lower portion of the image), the curvilinear form of SR-177 (heading northeast in the right-center of the image), and the numerous dark streaks along the valley floor that indicate the locations of existing solar projects. The landscape of the Project site visible from this location is rather non-descript and generally lacking in visual variety, though this expansive and somewhat elevated view incorporates adjacent scenery (surrounding mountains) that imparts a higher scenic quality of to the broader landscape. The overall visual quality is moderate and common to the greater Chuckwalla Valley. The applicable VRM Class Rating is Class IV. The KOP 3 Contrast Rating Form is provided in Appendix I.

Visitors to the Alligator Rock ACEC in general, and to the crest of Alligator Rock, specifically, enjoy panoramic desert views across the central Chuckwalla Valley that, from this location, exhibits a relatively natural appearance nearby to a developing renewable energy zone characterized by numerous solar energy projects and associated gen-tie transmission lines. Viewer concern would be high in that visitors to the ACEC and Alligator Rock would consider any increase in industrial character, structure prominence, or view blockage of higher value landscape features (valley floor, background sky, or mountains) an adverse visual change. Viewer exposure would be moderate to high given the high visibility of the Project site in the foreground-middleground viewing distance zone, the low number of viewers, and the extended duration of view of the Project site. For viewers in the vicinity of KOP 3, combining the equally weighted moderate visual quality, high viewer concern, and moderate to high viewer exposure results in an overall rating of moderate to high for overall visual sensitivity of the visual setting and viewing characteristics.

KOP 4 – Lake Tamarisk Desert Resort – East. This viewpoint is representative of the Project's views from the eastern portion of Lake Tamarisk Desert Resort. Figure 3.2-5A presents the existing panoramic view to the northeast through the southeast from KOP 4 at the east park and playground area near the eastern perimeter of the resort. This view captures a central portion of the Project site within the western Chuckwalla Valley backdropped by the rugged Coxcomb and Granite mountains to the northeast and Palen Mountains to the east. From this viewpoint, the landscape presents a predominantly natural appearance. Landform textures appear smooth to granular and coarse. Landform colors range from light tan to lavender and bluish hues at distance. Natural vegetation appears as patchy clumps to irregular and continuous forms at distance. Vegetation colors include tans and pale yellow for grasses with muted greens, tans, grays, and some reddish hues for shrubs. Very small portions of existing or under--construction solar facilities are visible in the distance as dark patches on the valley floor. Other built features visible from this view include the numerous gen-tie lines, Red Bluff Substation south of I-10, and two telecommunications towers. Much of the Project site landscape that would be otherwise visible from the resort is effectively screened from view by intervening vegetation. The overall visual quality is low to moderate and common to the greater Chuckwalla Valley. The applicable VRM Class Rating is Class IV. The KOP 4 Contrast Rating Form is provided in Appendix I.

Visitors to, and residents of, the Lake Tamarisk Desert Resort enjoy panoramic views across the central Chuckwalla Valley that, from this location, exhibit a relatively natural appearance. Viewer concern is high in that residents and visitors would consider any increase in industrial character, structure prominence, or view blockage of higher value landscape features (valley floor, background sky, or mountains) an

adverse visual change. Viewer exposure would be moderate to high given the moderate to high visibility of the Project site (which would be partially screened by intervening vegetation), the foreground-middleground viewing distance, the low number of viewers, and the extended duration of view. For viewers in the vicinity of KOP 4, combining the equally weighted low to moderate visual quality, high viewer concern, and moderate to high viewer exposure results in an overall rating of moderate to high for overall visual sensitivity of the visual setting and viewing characteristics.

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KOP 5 – Northbound SR-177. This viewpoint is representative of the Project's views from northbound SR-177 (Rice Road) when approaching the Project from the south. Figure 3.2-6A presents the existing view to the north-northeast from KOP 5, approximately 1.5 miles northeast of Desert Center. This expansive view of the western portion of the Greater Chuckwalla Valley is backdropped by the horizontal to angular forms of the Coxcomb and more distant Granite mountains that rise abruptly from the valley floor, providing features of visual interest. Landform colors range from light tan to lavender and bluish hues at distance. Landform textures appear smooth to granular and coarse. Vegetation appears as patchy to sequential clumps to irregular and continuous forms at distance. Vegetation colors include tans and pale to golden yellow for grasses with muted greens, tans, and some reddish hues for shrubs. The most prominent structure in this view, beyond the linear form of SR-177, is a wood-pole utility line paralleling the west side of SR-177. A distant communications tower on the east side of SR-177 is also faintly visible. In the distance to the north, two existing solar projects are visible as horizontal, medium-gray streaks along the valley floor. Although, travelers on SR-177 experience a predominantly natural desert landscape at this location, it should be noted that a considerable portion of the valley floor immediately adjacent to SR-177 is undergoing a transition from a predominantly natural-appearing desert landscape to that of a developed energy zone characterized by numerous solar energy projects that are either existing or under construction. Overall, the landscape of the Project site visible from this location is indistinct and appears similar to other portions of the valley floor. The overall visual quality is low to moderate and common to the greater Chuckwalla Valley. The applicable VRM Class Rating is Class IV. The KOP 5 Contrast Rating Form is provided in Appendix I.

Although travelers on SR-177 experience a predominantly natural desert landscape in this location, there are a number of existing or under-construction solar energy facilities that are screened from this view by vegetation <u>along</u> the highway. Also apparent are a few scattered rural residences and roadside commercial buildings, wood-pole utility lines, and an adjacent communications tower. As a result, the somewhat tempered viewer concern over an additional solar project would be moderate to high. Viewer exposure would be high given the high visibility of the Project in the immediate foreground of views from SR-177 and the relatively high volumes of travelers on SR-177 with moderate to extended duration of views. For viewers in the vicinity of KOP 5, combining the equally weighted low to moderate visual quality, moderate to high viewer concern, and high viewer exposure results in an overall rating of moderate to high for overall visual sensitivity of the visual setting and viewing characteristics.

KOP 6 – Southbound SR-177. This viewpoint is representative of the Project's views from southbound SR-177. Figure 3.2-7A presents the existing view to the southwest from KOP 6, approximately five miles northeast of Desert Center. This expansive view of the western portion of the Greater Chuckwalla Valley is backdropped by the horizontal to angular form of the Chuckwalla Mountains that rise abruptly from the valley floor, providing a feature of visual interest. Landform colors range from tan to lavender and bluish hues at distance. Landform textures appear smooth to granular and coarse. Vegetation appears as patchy to sequential clumps to irregular and continuous forms at distance. Vegetation colors include tans and pale to golden yellow for grasses with muted greens, tans, and some reddish hues for shrubs. The most prominent structures in this view, beyond the linear form of SR-177, is a wood-pole utility line paralleling the west side of SR-177 and a communications tower on the east side of SR-177. A new solar project is also visible in the distance to the east (left) side of SR-177 as a dark streak on the valley floor. Overall, the landscape of the Project site visible from this location is indistinct and appears similar to other portions

of the valley floor. The overall visual quality is low to moderate and common to the greater Chuckwalla Valley. The applicable VRM Class Rating is Class IV. The KOP 6 Contrast Rating Form is provided in Appendix I.

Travelers on SR-177 experience a predominantly natural desert landscape that is in transition to a more industrial appearance with the development of new solar projects. Also apparent are a few scattered rural residences and roadside buildings, wood-pole utility lines, agricultural fields, and an adjacent communications tower. As a result, the somewhat tempered viewer concern over an additional solar project would be moderate to high. Viewer exposure would be high given the high visibility of the Project in the immediate foreground of views from SR-177 and the relatively high volumes of travelers on SR-177 with moderate to extended duration of views. For viewers in the vicinity of KOP 6, combining the equally weighted low to moderate visual quality, moderate to high viewer concern, and high viewer exposure results in an over-all rating of moderate to high for overall visual sensitivity of the visual setting and viewing characteristics.

KOP 7 – Lake Tamarisk Desert Resort – North. This viewpoint is representative of the Project's views from the northern portion of Lake Tamarisk Desert Resort. Figure 3.2-8A in EIR Appendix I presents the existing view to the north from KOP 7 at the northern end of Shasta Drive along the northern perimeter of the resort. This image was obtained with an 8-foot camera elevation (above the ground) because it was thought to be more representative of the "porch-height" views that some of the private residences along the resort perimeter experience. The view presented in Figure 3.2-8A in EIR Appendix I encompasses the northwestern portion of the greater Chuckwalla Valley north of the resort and between Kaiser Road and SR-177 (Rice Road). This view also captures distant (approximately 3.4 to 6.9 miles to the north) existing solar fields and their associated gen-tie lines, backdropped by the horizontal to angular forms of the Eagle and Coxcomb mountains, features that contribute visual interest. Landform colors range from light tan to lavender and bluish hues at distance. Landform textures appear smooth to granular and coarse. Vegetation appears as patchy clumps to irregular and more continuous forms at distance. Vegetation colors include tans and pale to golden yellow for grasses with muted greens and tans with reddish hues for shrubs. The most prominent structures in this view are the noticeable vertical, dark, rust-colored, tubular Corten-steel gen-tie poles associated with the existing solar projects that are also visible as distant, dark, horizontal streaks along the valley floor in the background. Much of the Project site landscape that would be otherwise visible from the resort is effectively screened from view by intervening vegetation. The landscape of the Project site (visible from KOP 7) is rather non-descript and generally lacking in visual variety, though the adjacent scenery (surrounding mountains) contributes visual interest to the north views from the resort and enhances the broader landscape scenic quality. The overall visual quality is low to moderate and common to the greater Chuckwalla Valley. The applicable VRM Class Rating is Class IV.

Visitors to, and residents of, the Lake Tamarisk Desert Resort enjoy panoramic views across the northwestern Chuckwalla Valley that, from this location, exhibit a relatively natural appearance. Viewer concern is high in that residents and visitors would consider any increase in industrial character, structure prominence, or view blockage of higher value landscape features (valley floor, mountains, or background sky) an adverse visual change. Viewer exposure would be moderate given the moderate visibility of the Project site (which would be partially screened by intervening vegetation), the middleground viewing distance, the relatively low number of viewers, and the extended duration of view. For viewers in the vicinity of KOP 7, combining the equally weighted low to moderate visual quality, high viewer concern, and moderate viewer exposure results in an overall rating of moderate for overall visual sensitivity of the visual setting and viewing characteristics. Although the KOP 7 viewpoint is considered reasonably representative of publicly available Project views from the northern portion of the resort, it is acknowledged that some public views and private residential views within the resort may be more or less visually affected by the Project due to the presence of lesser or greater vegetative screening.

3.2.2. Regulatory Framework

3.2.2.1. Federal Laws, Regulations, and Policies

Federal Land Policy and Management Act

Section 102(a) of the Federal Land Policy and Management Act of 1976 (BLM, 1976) states that "...the public lands are to be managed in a manner that will protect the quality of scientific, scenic, historical, ecological, environmental, air and atmospheric, water resource, and archeological values." Section 103(c) identifies "scenic values" as one of the resources for which public land should be managed. Section 201(a) states, "the Secretary shall prepare and maintain on a continuing basis an inventory of all public lands and their resources and other values (including scenic values)." Section 505(a) requires that "each ROW shall contain terms and conditions which will ...minimize damage to the scenic and esthetic values."

The Federal Land Policy and Management Act applies to the Project because a majority of the Project would be located on public lands administered by the BLM Palm Springs-South Coast Field Office.

BLM Visual Resource Management (VRM) System

BLM uses the VRM System to inventory and manage scenic values on lands under its jurisdiction. Guidelines for applying the system are described in the BLM Manual Section 8400 et seq (BLM, 1984). VRM classes are assigned through Resource Management Plans (RMPs). The assignment of VRM classes is based on the management decisions made in the RMPs. The 2016 DRECP LUPA assigned a VRM Class IV to the DFA that contains the Project site. The VRM Class IV management objective is the least restrictive classification and provides for management activities (projects) that require major modifications of the existing character of the landscape. The level of change allowed may be high and may dominate the view and be the major focus of viewer attention.

California Desert Conservation Area (CDCA) Plan and Northern and Eastern Colorado Desert Coordination Management Plan

The Recreation Element of the CDCA Plan specifies that VRM objectives and the contrast rating procedure be used to manage visual resources (BLM, 1980). VRM objectives provide the visual management standards for future projects and for rehabilitation of existing projects. Activities within the landscape are designed or evaluated using contrast ratings (BLM, 1986b)

3.2.2.2. Local Laws, Regulations, and Policies

The Project is located partially on BLM-administered public land and partially on private lands subject to the County land use plans and ordinances. Therefore, local plans were reviewed to comply with CEQA Guidelines.

County of Riverside General Plan Land Use Element (LU)

The following policies of the General Plan Land Use Element are applicable to aesthetics/visual resources and the Project:

- Policy LU 4.1: Require that new developments be located and designed to visually enhance, not degrade the character of the surrounding area through consideration of the following concepts:
 - a) Compliance with the design standards of the appropriate area plan land use category.
 - b) Require that structures be constructed in accordance with the requirements of Riverside County's zoning, building, and other pertinent codes and regulations.

- o) Preserve natural features such as unique natural terrain, arroyos, canyons, and other drainage ways, and native vegetation, wherever possible, particularly where they provide continuity with more extensive regional systems.
- Policy LU 7.1: Require land uses to develop in accordance with the General Plan and area plans to ensure compatibility and minimize impacts.
- Policy LU 9.1: Provide for permanent preservation of open space lands that contain important natural resources, cultural resources, hazards, water features, watercourses including arroyos and canyons, and scenic and recreational values.
- Policy LU 9.2: Require that development protect environmental resources by compliance with the Multipurpose Open Space Element of the General Plan and federal and state regulations such as CEQA, NEPA, and Clean Air Act, and the Clean Water Act.
- Policy LU 14.1: Preserve and protect outstanding scenic vistas and visual features for the enjoyment of the traveling public.
- Policy LU 14.3: Ensure that the design and appearance of new landscaping, structures, equipment, signs, or grading within Designated and Eligible State and County scenic highway corridors are compatible with the surrounding scenic setting or environment.
- Policy LU 14.4: Maintain an appropriate setback from the edge of the right-of-way for new development adjacent to Designated and Eligible State and County Scenic Highways based on local surrounding development, topography, and other conditions.
- Policy LU 14.5: Require new or relocated electric or communication distribution lines, which would be visible from Designated and Eligible State and County Scenic Highways, to be placed underground.
- Policy LU 21.1: Require that grading be designed to blend with undeveloped natural contours of the site and avoid an unvaried, unnatural, or manufactured appearance.
- Policy LU 21.3: Ensure that development does not adversely impact the open space and rural character of the surrounding area.
- Policy LU 26.1: Require that development be designed to blend with undeveloped natural contours of the site and avoid an unvaried, unnatural, or manufactured appearance.
- Policy LU 26.3: Ensure that development does not adversely impact the open space and rural character of the surrounding areas.

County of Riverside General Plan Circulation Element I

The following policies of the General Plan Circulation Element are applicable to aesthetics/visual resources and the Project:

- **Policy C 19.1**: Preserve scenic routes that have exceptional or unique visual features in accordance with Caltrans' Scenic Highway Plan.
- Policy C 25.2: Locate new and relocated utilities underground when possible and feasible. All remaining utilities shall be located or screened in a manner that minimizes their visibility by the public.

County of Riverside General Plan Multipurpose Open Space Element (OS)

The following policies of the General Plan Multipurpose Open Space Element are applicable to aesthetics/ visual resources and the Project:

Policy OS 21.1: Identify and conserve the skylines, view corridors, and outstanding scenic vistas within Riverside County. Policy OS 22.1: Design developments within designated scenic highway corridors to balance the objectives of maintaining scenic resources with accommodating compatible land uses.

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Policy OS 22.4: Impose conditions on development within scenic highway corridors requiring dedication of scenic easements consistent with the Scenic Highways Plan, when it is necessary to preserve unique or special visual features.

County of Riverside General Plan Desert Center Area Plan (DCAP)

The following policies of the Desert Center Area Plan are applicable to aesthetics/visual resources and the Project:

- Policy DCAP 2.3: Assure that the design of new land uses subject to discretionary review visually enhances, and does not degrade, the character of the Desert Center Region.
- Policy DCAP 4.1: When outdoor lighting is used, require the use of fixtures that would minimize effects on the nighttime sky and wildlife habitat areas, except as necessary for security reasons.
- Policy DCAP 8.1: Protect the scenic highways within the Desert Center Area Plan from change that would diminish the aesthetic value of adjacent properties through adherence to the policies found in the Scenic Corridors sections of the General Plan Land Use, Multipurpose Open Space, and Circulation Elements.

Table 3.2-2 (Consistency with Regulatory Plans, Policies, and Standards) in Section 3.2.5 under Impact AES-5 addresses Project consistency with County policies, plans, and standards.

3.2.3. Methodology for Analysis

This section provides a discussion of the methodology used to assess impacts to aesthetic resources that could occur as a result of construction, operation, and decommissioning of the Project. The potential aesthetic, light, and glare impacts are evaluated on a qualitative basis. The methodology used to assess the potential Project effects is derived from the BLM's VRM System. Under the VRM System's visual contrast rating (VCR) method (BLM 1986b, 1984), a project (and alternatives) is analyzed for its effects on aesthetic or visual resources by comparing the landscape characteristics that would be created by the project to the existing landscape characteristics and arriving at an assessment of visual contrast that would result from changes in landforms and water, vegetation, and structures. The degree of contrast can range from none to strong and essentially evaluates a project's consistency with the visual elements of form, line, color, and texture already established in the landscape. In a sense, visual contrast indirectly indicates a particular landscape's ability to absorb a project's components and location without resulting in an uncharacteristic appearance. In other words, the amount of visual contrast between a project and the existing landscape character directly determines the degree to which a project would adversely affect the visual quality of an existing landscape.

Other elements that are considered in evaluating visual contrast include the degree of natural screening by vegetation and landforms; placement of structures relative to existing vegetation, landforms, and other structures; observer's angle of view relative to the project; distance from the point of observation; viewing duration/spatial relationships; atmospheric conditions; season of use; lighting conditions; and relative size or scale of a project. These contrast determinations are made from the representative KOPs identified in Section 3.2.1.4.

Once the degree of anticipated contrast is determined, a conclusion on the overall level of change is made (ranging from very low to high) and either:

(a) compared to the applicable VRM Classification to determine conformance with the established VRM Class Management Objectives for lands administered by the BLM (approximately 2,747 acres), or

(b) considered within the context of the existing landscape's overall visual sensitivity (which is a summation of the three contributing and equally weighted factors of visual quality, viewer concern, and overall viewer exposure – see Section 3.2.1.4) to arrive at an impact significance conclusion for the facilities on private lands (approximately 980 acres). These impact significance conclusions for private lands are based on the CEQA impact significance criteria presented in Section 3.2.4.

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3.2.3.1. Visual Simulations

Digital techniques were used to produce simulations of the Project as it would appear from each of the s<u>evenix</u> KOPs. The simulations were compared to "pre-Project" photographs in order to predict future visual effects of the Project for each KOP and were utilized to complete contrast rating forms. The paired images (existing view and visual simulation) for each of the <u>six-seven</u> KOPs are presented in Appendix I.

3.2.3.2. Assessment of Visual Contrast

As previously discussed, the degree of visual contrast that could result from changes in landforms and water, vegetation, and structures can be none, weak, moderate, or strong and evaluates a project's consistency with the visual elements of form, line, color, and texture already established in the landscape. Since there are no notable water features affected by the Project, this factor is not considered further. The VCRs are generally defined as follows:

- None The element of contrast is not visible or perceived;
- Weak The element of contrast can be seen but does not attract attention;
- Moderate The element of contrast begins to attract attention and begins to dominate the characteristic landscape; and
- Strong The element of contrast demands the viewer's attention and cannot be overlooked.

The assessment of visual contrast was done in the field from the sevenix representative KOPs (see Figure 3.2-1B – KOP Map). To aid the analysis, a visual simulation was prepared for each KOP. The six seven proposed Project VCR Data Sheets are presented in Appendix I, and the major components of the VCR Data Sheets are summarized in the following paragraphs.

Landform Contrast

Landform contrast is the contrast that ground-disturbing activities would create with the existing landscape. Soil exposure and grading, blading roads, and other activities that alter the ground or landforms create changes in color, shape, and slope that can contrast with the existing landscape. For example, depending on baseline conditions, even minimal grading on a flat site can expose soil and create a noticeable level of color contrast.

Vegetation Contrast

Vegetation contrast is the contrast that vegetation clearing would create with the vegetation in the existing landscape. Vegetation contrast considers just the change in vegetation and does not consider structures that are part of the Project. Depending on baseline conditions, removal of, or damage to, sparse vegetation or vegetation that is low-growing and/or is quickly restored, such as agricultural land, disturbed bare ground, and grasslands, would typically result in a weak level of contrast with the existing landscape. Removal of low, woody vegetation (brush or bushes) would typically result in a moderate level of contrast with the existing landscape, and removal of overstory vegetation (trees) would typically result in a strong level of contrast with the existing landscape. In an arid/desert landscape, unnatural lines of demarcation in vegetation resulting from grading or removal can cause visual contrast that persists over years due to the typical slow pace of its recovery.

Structure Contrast

Structure contrast is the contrast of the built or structural components of a project with the existing landscape. A strong level of contrast typically results from the introduction of a new structure(s) into a landscape absent structures of a similar design and scale. A moderate level of contrast typically exists when new structures are built near similar but smaller existing structures. A weak level of contrast typically exists when structures are built near similar structures of a similar or larger scale.

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Project Dominance and View Blockage or Impairment

Two additional factors that contribute to the contrast determinations are project dominance and view blockage or impairment. Project dominance is a measure of a project feature's apparent size relative to other visible landscape features in the viewshed. A feature's dominance is affected by its relative location and the distance between the viewer and the feature. The level of dominance can range from subordinate to dominant. View blockage or impairment is a measure of the degree to which a project would obstruct views of higher value and previously visible landscape features due to the project's position and/or scale. Blockage of aesthetic landscape features or views can cause adverse aesthetic/visual impacts.

3.2.3.3. Determining Overall Visual Change and Visual Impact Significance

Once the degree of anticipated contrast for landform, vegetation, and structures is determined (by comparing the post-Project landscape characteristics with the existing landscape characteristics) and is documented in the contrast matrix of the VCR Data Sheet for each KOP (see Appendix I), the overall visual change can be qualitatively determined (ranging from very low to high). Under the VRM System for Project facilities on BLM-administered lands, the overall visual change conclusion enables a consistency determination with the applicable VRM Class management objective (in this case, Class IV, as defined in Section 3.2.1).

For the Project facilities on private lands, the overall visual change conclusion is combined with determinations of overall visual sensitivity at each KOP to arrive at visual impact significance conclusions as presented in Table 3.2-1 and defined as follows:

- No Impact represents impacts that are generally imperceptible to the casual viewer or are beneficial because they reduce visually discordant characteristics in the landscape, thereby improving visual quality.
- Less than Significant impacts are perceived as negative but are minor and do not exceed environmental thresholds.
- Potentially Significant impacts are perceived as negative and may exceed environmental thresholds depending on project- and site-specific circumstances. However, with feasible mitigation, significant impacts may be reduced to less-than-significant levels or avoided altogether.
- Likely Significant impacts are perceived as negative and likely exceed environmental thresholds even with mitigation. While mitigation may potentially reduce impacts to less than significant levels or avoid them altogethersome degree, the resulting severity and/or scale of the impacts is such that the availability of successful mitigation is considered unlikely. Without mitigation or avoidance measures, significant impacts they would still likely exceed environmental thresholds.

While the interrelationships presented in Table 3.2-1 below are intended as guidance only, it is reasonable to conclude that lower visual sensitivity ratings paired with lower visual change ratings will generally correlate with lower degrees of impact significance. Conversely, higher visual sensitivity ratings paired with higher visual change ratings will tend to result in higher degrees of visual impact.

Implicit in this rating methodology is the acknowledgment that for a visual impact to be considered significant, two conditions generally exist: (1) the existing landscape is of reasonably high quality and is relatively valued by viewers, and (2) the perceived incompatibility of one or more project elements or characteristics tends toward the higher extreme, leading to a substantial reduction in visual quality.

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Visual	Visual Change						
Sensitivity	Low	Low to Moderate	Moderate	Moderate to High	High		
Low	No impact ¹	No impact ¹ No impact ¹ Less Th Significa		Less Than Significant ²	Less Than Significant ²		
Low to	No impact ¹		Less Than	Less Than	Potentially		
Moderate			Significant ²	Significant ²	Significant ³		
Moderate	Less Than	Less Than	Less Than	Potentially	Potentially		
	Significant ²	Significant ²	Significant ²	Significant ³	Significant ³		
Moderate	Less ThanLess ThanSignificant2Significant2		Potentially	Potentially	Likely		
to High			Significant ³	Significant ³	Significant ⁴		
High	High Less Than Potentially		Potentially	Likely	Likely		
	Significant ² Significant ³		Significant ³	Significant ⁴	Significant ⁴		

 Table 3.2-1.
 General Guidance for Consistency Review of Adverse Impact Significance

1 - No Impact – Impacts are generally imperceptible to the casual observer or beneficial because they reduce visually discordant characteristics in the landscape, thereby improving visual quality

2 - Less Than Significant – Impacts are perceived as negative but do not exceed environmental thresholds.

3 - Potentially Significant – Impacts are perceived as negative and may exceed environmental thresholds depending on the implementation of effective mitigation measures.

4 - Likely Significant – Impacts are perceived as negative and will likely exceed environmental thresholds even with mitigation.

3.2.3.4. Daytime Glare

The following paragraphs summarize the method of analysis and types of glare assessed for the Project. The full Glare Assessment report is presented in Appendix I. As solar projects became more prevalent in the nation, potential glare from projects that could affect pilots approaching airports was a concern of the <u>Federal Aviation Administration (FAA)</u>. The FAA initially believed that solar energy systems could introduce a novel glint and glare effect to pilots on final approach to airports. FAA has subsequently concluded that in most cases, the glint and glare from solar projects to pilots on final approach is similar to glint and glare pilots routinely experience from water bodies, glass facade buildings, parking lots, and similar features. Current FAA guidance applies to on-airport solar facilities at airports that have received federal support and have an Air Traffic Control Tower.

For the Easley Renewable Energy Project (Project), glare was modeled using ForgeSolar (2023) glare analysis tools. While the exact model of the <u>photovoltaic (PV)</u> panels has not been finalized, the parameters of the First Solar Series 7 technology were used as a best-guess technology to run the model to predict any potential impacts to pilots on approach to Desert Center or operators of motor vehicles in the Project area in eastern Riverside County. <u>To determine whether military pilots in the area could experience</u> <u>adverse effects</u>, the glare analysis (2024) also includes segments of two low-level military training routes (MTR), identified as ID-217 and ID-296, that intersect the airspace above the Project. The model assumed the use of single-axis rotation tracking solar PV panels with a portrait module orientation made of smooth glass without anti-reflective coating, and it used default direct normal irradiance (DNI), which varies and peaks at 1,000 Watts per square-meter (W/m2). In addition, the model considered variations in panel reflectivity with respect to the position of the sun. The following assumptions regarding the solar panel configuration for all PV panel arrays analyzed were also used:

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- Tracking axis orientation: 180.0 degrees (tracker rows oriented north/south with tracking direction from east to west)
- Tracking axis tilt: 0 degrees (system on flat, level ground would have axis tilt of 0 degrees)
- Tracking axis panel offset: 0.0 degrees
- Maximum tracking angle: 60.0 degrees
- Resting angle: 60.0 degrees
- Height above ground: 5 feet

Default observer eye characteristics were used for glare analysis, as follows:

- Analysis time interval: 1 minute
- Ocular transmission coefficient: 0.5
- Pupil diameter: 0.002 meter
- Eye focal length: 0.017 meter
- Sun subtended angle: 9.3 milliradians
- Vertex Parameters:
- Latitude: 33°N
- Longitude: 115°W
- Elevation: approximately 550 to 720 feet
- Total Elevation (sum of height above ground and elevation): approximately 555 to 725 feet

Green glare is defined as glare with a low potential to cause an after-image, or flash blindness, when observed prior to a typical blink response time. Yellow glare is defined as glare with a potential to cause an after-image when observed prior to a typical blink response time. Overall, there is a possibility of green glare that could result from the Project PV arrays. However, there is no yellow glare that would result from the solar panels.

3.2.4. CEQA Significance Criteria

The criteria used to determine the significance of potential aesthetics/visual resources impacts are based on Appendix G of the State CEQA Guidelines. Individual Project impacts (e.g., AES-1) are addressed in Section 3.2.5. The proposed Project is in a non-urbanized area and would result in a significant impact under CEQA if it would:

- In non-urbanized areas, substantially degrade the existing visual character or quality of views of the site and its surroundings (public views are those that are experienced from publicly accessible vantage points). In an urbanized area, conflict with applicable zoning and other regulations governing scenic quality (see Impact AES-1).
- Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area (Impact AES-2).

The County of Riverside's Environmental Assessment Form includes additional significance criteria, which were also used in the analysis. The additional criteria indicate that a project could have potentially significant impacts if it would:

- *Result in the creation of an aesthetically offensive site open to public view (Impact AES-3).*
- Expose residential property to unacceptable light levels (Impact AES-4).

Two additional impact significance criteria used in the analysis include:

• Would Project construction, operation, or decommissioning result in an inconsistency with regulatory plans, policies, and standards applicable to the protection of aesthetics (Impact AES-5).

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Would Project decommissioning result in long-term aesthetic effects resulting from increased visual contrast (since Project decommissioning would result in impacts similar to Project construction, see Impact AES-1, Section 3.2.5.1, Project Construction, as it pertains to long-term effects of ground surface disturbance and vegetation removal).

The following CEQA significance criteria from Appendix G were not included in the analysis and are not discussed further beyond this summary:

• Have a substantial adverse effect on a scenic vista.

The Riverside County General Plan does not designate the Project area as an important visual resource, and no scenic vistas were identified in the aesthetics/visual resources Project area. Therefore, no impacts would occur under this criterion. Impacts to views from I-10, which has been identified by the County of Riverside as eligible for designation as a scenic corridor, are addressed under Impact AES-1.

 Substantially damage scenic resources, including but not limited to trees, rock outcroppings, and historic buildings within a state scenic highway.

There are no scenic resources at the Project sites and there are nor designated \underline{Ss} tate scenic highways in the Project area. Therefore, no impacts would occur under this criterion. Impacts to views from I-10, which has been identified by the County of Riverside as eligible for designation as a scenic corridor, are addressed under Impact AES-1.

• Interfere with nighttime use of the Mt. Palomar Observatory, as protected through Riverside County Ordinance No. 655.

The proposed Project area is located approximately 89 miles east of the Mt. Palomar Observatory, which far exceeds the distance to the Observatory's areas of sensitivity (Zone A at a 15-mile radius and Zone B at a 45-mile radius from the Observatory). The Project is expected to use minimal nighttime lighting during construction and operation, and such uses would be limited. The Project may also deploy hazard lighting on the tallest gen-tie structures at road crossing locations due to safety concerns with low-level military flights in the area. However, by utilizing an infrared lighting system, the hazard lighting impact would be substantially mitigated. Therefore, bBased on the Project area's distance to the observatory,-Project lighting would result in no impacts to astronomical observation and research at the Mt. Palomar Observatory.

3.2.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to aesthetics/visual resources. Those concerns involved the proximity of the solar panels to the <u>Lake Tamarisk community being an eyesore</u>; the reduction in quality of life for the residents <u>of the</u> <u>Lake Tamarisk Desert Resort</u>; the light and glare reflecting off of the solar panels; the light pollution from the Project affecting the dark skies environment; and general visual impacts on Desert Center and JTNP. Concerns were also expressed about the visual impacts of fencing and the debris that gets caught in it as well as the glare affecting pilots in the area. The remainder of this section will address these, and other potential aesthetics/visual resources impacts per the four CEQA Appendix G impact criteria, the three Riverside County significance criteria, and the two additional significance criteria identified above.

Applicant Proposed Measure

APM VIS-1 Weathering Coating of Security Fencing. To reduce operational visual impacts of the Project to the community of Lake Tamarisk, the Project owner will apply a weathering coating (Natina or substantially similar) to the Project security fencing located closest to the <u>c</u>€ommunity. The coating would reduce the <u>occurrence of</u>-reflectance, which would be visually distracting, and the typically earth-tone color of the coating would reduce the industrial character of the fencing and help it to blend more effectively with the surround-ing landscape. The total length of fencing that will be coated is approximately one mile and may be contiguous or <u>in</u> separate sections, depending on the final Project design and the location(s) of most visible security fencing.

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Impact AES-1. In non-urbanized areas, would the Project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points). If the Project is in an urbanized area, would the Project conflict with applicable zoning and other regulations governing scenic quality?

The Project is in a non-urbanized area of Riverside County and the majoritymost of the Project's impacts fall into the Impact AES-1 category. Degradation of visual character or quality results from the introduction of noticeable visual contrast, which relates to spatial characteristics, visual scale, form, line, color, and texture. Degradation also results from Project dominance and the blockage of views to higher value landscape features (e.g., mountains and ridgelines). The aesthetic impacts associated with Project construction and Project operations and maintenance (O&M) are described in the following paragraphs. Project decommissioning impacts would be the same as those described under Project construction and are, therefore, not addressed further.

Less THAN SIGNIFICANT WITH MITIGATION, CONSTRUCTION AND DECOMMISSIONING. Construction and decommissioning activities could cause short-term direct and indirect aesthetic impacts from the visible presence of equipment, materials, vehicles, and workforce at the sites of the proposed solar facilities and along the gen-tie right-of-way; from visible contrast associated with vegetation removal; from visible fugitive dust; from construction night lighting (on an occasional basis); and from increased vehicle traffic on roadways beyond the immediate Project area (indirect effect).

The aesthetic <u>effects-impacts</u> caused by the temporary presence of equipment, materials, and workforce would occur throughout the Project site (solar facilities and gen-tie line). Construction and decommissioning would involve the use of cranes and heavy equipment, temporary storage and office facilities, and temporary laydown/staging areas. Construction activities would include site clearing and grading, assembly of solar arrays, erection of transmission structures, conductor stringing and pulling, and site cleanup and restoration. These activities would be visible from I-10, SR-177, Desert Center, the Lake Tamarisk Desert Resort residential area, the few rural residences in the area, and the surrounding wilderness areas. Throughout the construction period, the industrial character of the activities would cause visual contrast and visual change, which would constitute adverse aesthetic <u>effects-impacts</u> when viewed by the general public. However, since the construction and decommissioning activities would be temporary in nature, they would not result in a substantial long-term visual <u>effection pacts</u>, and no mitigation is <u>recommended proposed</u>.

Areas of ground surface disturbance and vegetation removal (characterized by high color, line, and texture contrasts) could remain visible from various vantage points for an extended period after the conclusion of construction because revegetation in the desert region is difficult and generally of limited success. However, the vast majority of the areas of ground disturbance would be occupied by permanent facilities, and since most foreground/middleground views of the disturbed areas would be at similar elevations (at grade), much of the contrast associated with unnatural vegetative patterns and/or lines would be

screened from view by intervening vegetation and the new facilities. However, this longer-term visual contrast could appear prominent from some viewing locations and cause moderate to high levels of visual change. Although this would still be consistent with the BLM's VRM Class IV Management Objective, it would result in a significant aesthetic/visual resources impact under CEQA if not successfully mitigated. <u>MM BIO-5 and DRECP CMA LUPA-BIO-7 would result in the revegetation of temporarily disturbed areas</u>, which would reduce the visual contrast associated with the lighter color of exposed soils and unnatural lines of demarcation in areas that have been cleared of vegetation.

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Grading activities for the construction of the solar facilities and access roads and vehicle travel on unpaved surfaces have the potential to generate short-term dust clouds, which can cause moderate levels of visual contrast and moderate overall visual change, as well as be visually distracting. Although this occurrence would be consistent with the VRM Class IV management objective, it would result in a significant aesthetic/visual resources impact if not controlled properly. The Fugitive Dust Control Plan required in MM AQ-1 and DRECP CMA LUPA-AIR-5 would reduce fugitive dust emissions from construction activities through the application of soil stabilizers, weighting agents, or water, and the implementation of other construction management approaches discussed in MM AQ-1 in Section 3.4 (Air Quality).-

It is anticipated that some construction activity could occasionally take place at night, which could result in substantial adverse night lighting visual <u>effects-impacts</u> (contrast) given the general lack of any significant night lighting at the Project site. The resulting moderate visual contrast would be consistent with the VRM Class IV management objective but would result in a significant aesthetic/visual resources impact if not effectively controlled. <u>MM AES-3 and DRECP CMA LUPA-BIO-13 would require the implementation of</u> <u>a Night Lighting Management Plan such that: (a) lamps and reflectors are not visible from beyond the</u> <u>Project site, including any off-site security buffer areas; (b) lighting does not cause excessive reflected</u> glare; (c) direct lighting does not illuminate the nighttime sky, except for required FAA aircraft safety lighting; (d) illumination of the Project and its immediate area is minimized; and (e) it complies with local policies and ordinances.

In addition to the direct aesthetics/visual resources effects, construction of the Project would also result in the indirect visual effect of increased vehicle traffic. Although there would be an increase in vehicle trips on regional roads (I-10 and SR-177) associated with construction-related vehicles, it is not expected that in the context of existing non-Project-related traffic, the increased traffic would be noticed by the casual observer, particularly in the major travel corridors (I-10 and SR-177) outside of the immediate construction area. To the extent that a casual observer or local resident perceives any increase in traffic, the duration of the effects would be short-term. Further, in that there are other solar projects under construction, any perceived increase in traffic would be incremental to an impact that is already occurring. Therefore, the resulting visual effect would be less than significant, and no mitigation is proposed.

Mitigation Measures for Construction and Decommissioning under Impact AES-1

The Project's visible contrast associated with temporary ground disturbance and vegetation removal can be reduced to levels that would be less than significant through the implementation of Biological Resources Mitigation Measure (MM) BIO-5, which would include revegetation of disturbed areas and retention of existing vegetation such that visual contrast and visual access is reduced:

MM BIO-5 Vegetation Resources Management Plan. See full text in Section 3.5 (Biological Resources).

The Project's visible contrast associated with temporary fugitive dust during construction can be reduced to levels that would be less than significant through the implementation of Air Quality MM AQ-1, which would include the reduction of fugitive dust emission through stabilization of soils with non-toxic soil stabilizers, soil weighting agents, or water:

MM AQ-1 Fugitive Dust Control Plan. See full text in Section 3.4 (Air Quality).

The Project's visible contrast associated with temporary uncontrolled night lighting during construction can be reduced to levels that would be less than significant through the implementation of MM AES-3, which would include lighting management and control systems that would result in reduced night lighting impacts on dark sky viewing, nearby and adjacent roads (motorists), and nearby residences:

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MM AES-3 Night Lighting Management Plan. See full text in Section 3.2.93.2.7 (Mitigation Measures).

As summarized above and described in EIR Appendix CC, DRECP CMAs LUPA-BIO-7, LUPA-AIR-5, and LUPA BIO-13 would similarly reduce impacts associated with Project facilities located on BLM-administered land.

Significance After Mitigation

Construction impacts would be less than significant with effective implementation of the identified mitigation measures.

SIGNIFICANT AND UNAVOIDABLE, OPERATIONS AND MAINTENANCE. As described in Section 3.2.1.4 and depicted in Figure 3.2-1B, sevenix representative KOPs were selected from the identified sensitive viewpoints and corridors to assess the Project's O&M impacts on the existing visual character and scenic quality of the landscape. The O&M effects impacts would typically be direct effects. Therefore, they are addressed as such for each KOP listed below unless otherwise noted.

KOP 1 – Eastbound I-10. Figure 3.2-2A presents the existing view from KOP 1 on eastbound I-10. The view illustrated in Figure 3.2-2B presents a visual simulation that illustrates the introduction of solar arrays and a gen-tie line into the valley landscape. Specifically, the simulation depicts a majority of the Project between Kaiser Road and just east of SR-177. Viewing distances to the various Project components range from approximately 2.5 miles to approximately 5.6 miles. In this view, the Battery Energy Storage System (BESS) and substation would be substantially obscured from view by vegetation. The gen-tie line (visible in the right-center of the image) would be perceptible as it parallels SR-177 to the south. As shown in the simulation, the Project would present as a visually significant built feature introduced into a desert valley landscape that is already characterized by the increasing presence of energy infrastructure. The open landscape along this portion of I-10 would enable extended view durations of the Project for travelers on I-10 crossing Chuckwalla Valley. Portions of the Project's solar arrays would be visible as continuous, linear, horizontal, medium- to dark-gray to bluish-black patches on the valley floor partially screened from I-10 views by intervening vegetation. The gen-tie line paralleling SR-177 would become increasingly prominent as the I-10 traveler approaches Desert Center. However, the Oberon Project, which began commercial operation in fall 2023, would be located south and southeast of the proposed Project and would appears in the foreground of views from I-10.

In the context of an existing landscape that includes not only the natural landforms, vegetative patterns, and earth-tone colors and textures of a desert valley but also the industrial characteristics of several solar projects in the immediate vicinity of the Project site, the Project would result in various degrees of visual contrast. Specifically, the Project's prominent linear form and horizontal to vertical lines associated with the solar arrays and gen-tie poles would cause moderate contrast with the horizontal to angular and irregular forms of the existing landforms and patchy, irregular forms of the valley vegetation. The Project would cause moderate to strong contrast with the irregular and-lines of the existing landforms and the patchy and irregular forms and lines of the-valley vegetation. However, the Project's form and line contrast would be consistent with the adjacent solar facilities and gen-tie lines already established in the landscape. The Project's dark array panels would result in <u>moderate to</u> strong contrast with the lighter earth tones of the valley's soils and rock but minimal contrast with the existing solar facilities. The gen-tie poles would cause moderate contrast with the lighter earth tones of the valley's soils and rock but mo contrast with the existing and adjacent gen-tie lines. The Project's smooth, manufactured surfaces would

cause weak contrast with adjacent solar facilities but moderate contrast with the matte to coarse textures attributable to valley soils, rock, and vegetation. Therefore, the Project's overall visual contrast would be moderate to high.

The Project would constitute a foreground to middleground, visually co-dominant feature in the landscape and would attract the attention of the casual observer. View blockage of higher value landscape features (e.g., valley floor and vegetation) would be moderate to high. Combining the equally weighted moderate to high visual contrast, co-dominant project dominance, and moderate to high view blockage results in a moderate to high rating for overall visual change, which would degrade the existing visual character and quality of the landscape as viewed from KOP 1 and similar locations along eastbound I-10. Although the resulting visual effect would be adverse, the moderate to high level of visual change would be allowed under the VRM Class IV management objective that applies to the portion of the Project that would be located on BLM-administered lands (see KOP 1 Contrast Rating Data Sheet in Appendix I).

In the context of the existing landscape's moderate to high visual sensitivity, the moderate to high visual change would result in a significant aesthetics impact under significance criterion AES-1. Implementation of MMs AES-1 (Surface Treatment of Project Structures and Buildings) and AES-2 (Project Design) and compliance with DRECP CMAs DRECP CMA LUPA BIO-7, DFA-VPL-VRM-2, and DFA-VPL-VRM-3 are recommended as they would reduce the visual contrast associated with visually discordant structural features and industrial character, though not sufficiently to reduce the aesthetic impact to a level that would be less than significant. Therefore, the resulting visual impact would remain significant and unavoidable.

KOP 2 – Westbound I-10. Figure 3.2-3A presents the existing view from KOP 2 on westbound I-10, approximately 1.9 miles east of the Desert Center/SR-177 exit. Figure 3.2-3B presents a visual simulation that illustrates the introduction of the Project's solar arrays and a gen-tie line into the valley landscape. Specifically, the simulation depicts a majority most of the Project between Kaiser Road and just east of SR-177. Viewing distances to the various Project components would range from approximately 0.4 mile (foreground gen-tie line) to approximately five miles (most distant solar arrays). As shown in the simulation, the Project would present as a visually significant built feature introduced into a desert valley landscape with an increasing presence of energy infrastructure. The open landscape along this portion of I-10 would enable extended view durations of the Project for travelers on I-10 crossing Chuckwalla Valley. Portions of the Project's solar arrays would be prominently visible as continuous, linear, horizontal, medium- to dark-gray to bluish-black patches on the valley floor partially screened from I-10 views by intervening vegetation. The BESS and substation would be substantially obscured from view by intervening vegetation. The gen-tie line paralleling SR-177, and then I-10, would be a visually prominent feature in the foreground views from this and similar locations along I-10 where the line parallels the freeway. However, the Oberon Project, which began commercial operation in fall 2023, would be is located south and southeast of the proposed Project and would appears in the foreground of views from I-10.

In the context of an existing landscape that includes not only the natural landforms, vegetative patterns, and earth-tone colors and textures of a desert valley but also the industrial characteristics of several solar projects in the immediate vicinity of the Project site, the Project would result in varying degrees of visual contrast. Specifically, the Project's prominent linear form and horizontal to vertical lines associated with the solar arrays, BESS, and gen-tie poles would cause moderate contrast with the horizontal to angular and irregular forms and lines of the existing landforms (valley floor and background mountains) and the patchy and irregular forms and lines of the valley vegetation. However, the Project's form and line contrast would be consistent with the adjacent solar facilities and gen-tie lines already established in the land-scape. The Project's dark array panels would cause moderate contrast with the lighter earth tones of the valley's soils and rock but minimal contrast with the existing solar facilities. The dark-brown gen-tie poles would cause moderate contrast with the lighter with the lighter earth tones of the valley's soils and rock, background landforms, and sky but no contrast with the existing and adjacent gen-tie lines. The resulting overall level of color contrast would be moderate. The Project's smooth, manufactured surfaces would cause weak

contrast with adjacent solar facilities but moderate contrast with the matte to coarse textures attributable to valley soils, rock, and vegetation. Therefore, the Project's overall visual contrast would be moderate.

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The Project would constitute a foreground to middleground, visually co-dominant feature in the landscape and would attract the attention of the casual observer. View blockage of higher value landscape features (e.g., valley floor and vegetation) would be moderate. Combining the equally weighted moderate visual contrast, co-dominant project dominance, and moderate view blockage results in a moderate rating for overall visual change, which would degrade the existing visual character and quality of the landscape as viewed from KOP 2 and similar locations along westbound I-10. Although the resulting visual effect would be adverse, the moderate level of visual change would be allowed under the VRM Class IV management objective that applies to the portion of the Project that would be located on BLM-administered lands (see KOP 2 Contrast Rating Data Sheet in Appendix I).

In the context of the existing landscape's moderate to high visual sensitivity, the moderate visual change would result in a significant aesthetics impact under significance criterion AES-1. Implementation of MMs AES-1 (Surface Treatment of Project Structures and Buildings) and AES-2 (Project Design) and compliance with DRECP CMAs LUPA BIO-7, DFA-VPL-VRM-2, and DFA-VPL-VRM-3are recommended as they would reduce the visual contrast associated with visually discordant structural features and industrial character, though not sufficiently to reduce the aesthetic impact to a level that would be less than significant. Therefore, the resulting visual impact would remain significant and unavoidable.

KOP 3 – Alligator Rock ACEC. Figure 3.2-4A presents the existing view from KOP 3 on the crest of Alligator Rock, approximately 0.5 mile southwest of Desert Center. As shown in the KOP 3 visual simulation presented in Figure 3.2-4B, the approximately 3- to 5.6-mile distant solar arrays would present as visually codominant, dark- to light-colored patches (depending on panel orientation and time of day) extending across the floor of Chuckwalla Valley, east and west of SR-177 and north of I-10. Inset within this dark mass would be the prominently white, linear area of the BESS adjacent to the cluster of gray, vertical, structural elements comprising the substation (only faintly visible in this view). The dark, rust-colored vertical poles of the gen-tie line would also be noticeable as the line parallels the east side of SR-177 before turning east to parallel other existing gen-tie lines. The panoramic view from this elevated vantage point on Alligator Rock would enable extended view durations of the solar fields, BESS, substation, and gen-tie. However, it should be noted that the Oberon Project, which began commercial operation in fall 2023, would-bejs located south and southeast of the proposed Project and would-appears in the foreground of views from Alligator Rock ACEC.

In the context of an existing landscape that includes not only the natural landforms, vegetative patterns, and earth-tone colors and textures of a desert valley but also the industrial characteristics of several solar projects in the immediate vicinity of the Project site, the Project would result in varying degrees of visual contrast. Specifically, the Project's prominent linear form and horizontal to vertical lines of the solar arrays, BESS, and gen-tie line would cause moderate contrast with the horizontal to angular and irregular forms and lines of the existing landforms (valley floor and background mountains) and the patchy and irregular forms and lines of the valley vegetation. The faintly visible substation and O&M building would contribute no meaningful contrast, and the Project's overall form and line contrast would be consistent with the adjacent solar facilities and gen-tie lines already established in the landscape, resulting in overall weak to moderate form and line contrast. The Project's dark array panels and white BESS would cause moderate to strong contrast with the lighter earth tones of the valley's soils and rock but no contrast with the existing solar facilities. At this viewing distance and angle of view, the dark brown color of the gen-tie poles would cause weak contrast with the lighter background sky and earth-tone colors of soils but would be consistent in color with the adjacent and nearby existing utility poles. The resulting overall level of color contrast would be moderate. At this viewing distance, the Project's smooth, manufactured surfaces would cause no contrast with adjacent solar facilities but weak contrast with the matte to coarse textures attributable to valley soils, rock, and vegetation resulting in an overall weak level of texture contrast. Therefore, the Project's overall visual contrast would be low to moderate.

The Project would constitute a foreground to middleground, visually co-dominant feature in the landscape and would attract the attention of visitors to Alligator Rock. View blockage of higher value landscape features (e.g., valley floor and vegetation) would be moderate. Combining the equally weighted low to moderate visual contrast, co-dominant project dominance, and moderate view blockage results in a moderate rating for overall visual change, which would degrade the existing visual character and quality of the landscape as viewed from KOP 3 and similar elevated locations in the Alligator Rock ACEC. Although the resulting visual effect would be adverse, the moderate level of visual change would be allowed under the VRM Class IV management objective that applies to the portion of the Project that would be located on BLM-administered lands (see KOP 3 Contrast Rating Data Sheet in Appendix I).

In the context of the existing landscape's moderate to high visual sensitivity, the moderate visual change would result in a significant aesthetics impact under significance criterion AES-1. Implementation of MMs AES-1 (Surface Treatment of Project Structures and Buildings) and AES-2 (Project Design) and compliance with DRECP CMAs LUPA BIO-7, DFA-VPL-VRM-2, and DFA-VPL-VRM-3 are recommended as they would reduce the visual contrast associated with visually discordant structural features and industrial character, though not sufficiently to reduce the aesthetic impact to a level that would be less than significant. Therefore, the resulting visual impact would remain significant and unavoidable.

KOP 4 – Lake Tamarisk Desert Resort – East. Figure 3.2-5A presents the existing view from KOP 4 at the <u>east park and playground-play</u> area near the eastern boundary of the Lake Tamarisk Desert Resort. The visual simulation presented as Figure 3.2-5B encompasses an approximate 105^o viewing arc that extends from 26^o northeast to approximately 135^o southeast. Both of these figures are based on a setting image captured in December 2022 with an <u>85</u>.5-foot camera elevation (above the ground). <u>This slightly elevated</u> view is considered to be more representative of the "porch-height" views that some of the residences along the eastern resort perimeter experience. Although KOP 4 is considered reasonably representative of available Project views from the eastern portion of the resort, it is acknowledged that some public views and private residential views within the resort may be more or less visually affected by the proposed Project due to the presence of lesser or greater vegetative screening.

While much of the Project shown in Figure 3.2-5B would be screened from view by intervening vegetation, portions of the solar arrays along the valley floor would be visible to the northeast and east, with viewing distances ranging from approximately 0.3 to 1.5 miles. The arrays would present as a visually prominent, dark- to light-colored horizontal band extending across the valley floor (depending on panel orientation and time of day). Portions of the white-colored BESS would be partially visible approximately 0.7 mile to the east. The visible portions of the BESS would present as a visually prominent but intermittent bright white horizontal band along the valley floor. While most of the Project's substation (approximately 0.7 mile to the east) and all of the O&M building would be screened from view by intervening vegetation, the proposed gen-tie line that would connect to the substation would present noticeable, dark, rust-colored, vertical structures (at viewing distances ranging from approximately 0.8 to 0.9 mile for the four structures shown) as the line extends to the south and then east to connect with the existing Red Bluff Substation. The open landscape would enable extended view durations of the Project from the resort.

In the context of an existing landscape that is predominantly natural appearing from this location, the Project would result in varying degrees of visual contrast. Specifically, the prominent linear form and horizontal to vertical lines associated with the Project's solar arrays, BESS, and gen-tie line would result in moderate to strong contrast with the horizontal to angular and irregular forms and lines of the existing landforms (valley floor and background mountains) and the patchy and irregular forms and lines of the valley vegetation. The substantially obscured substation and O&M building would contribute no meaningful contrast. The Project's dark array panels and white BESS, which are substantially screened by

intervening vegetation when viewed from the eastern portion of the resort, would also-result in moderate <u>to strong</u> contrast with the lighter earth tones of the valley's soils and rock. At this viewing distance, the Project's smooth, manufactured surfaces would cause weak texture contrast with the matte to coarse textures attributable to valley soils, rock, and vegetation. Therefore, the Project's overall visual contrast would be moderate to strong.

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The Project would constitute a foreground to middleground, visually co-dominant feature in the landscape and would attract the attention of residents of, and visitors to, the resort. View blockage of higher value landscape features (e.g., valley floor, background mountains, and sky) would be low to moderate given the low profile of the solar arrays and substantial screening by intervening vegetation. Combining the equally weighted moderate visual contrast, co-dominant project dominance, and low to moderate view blockage results in a moderate rating for overall visual change, which would degrade the existing visual character and quality of the landscape as viewed from KOP 4 and similar locations in the eastern portion of the resort. Although the resulting visual effect would be adverse, the moderate level of visual change would be allowed under the VRM Class IV management objective that applies to the portion of the Project that would be located on BLM-administered lands (see KOP 4 Contrast Rating Data Sheet in Appendix I).

In the context of the existing landscape's moderate to high visual sensitivity, the Project's moderate visual change would result in a significant aesthetics impact under significance criterion AES-1. Implementation of MMs AES-1 (Surface Treatment of Project Structures and Buildings) and AES-2 (Project Design) and compliance with DRECP CMAs LUPA BIO-7, DFA-VPL-VRM-2 and DFA-VPL-VRM-3are recommended as they would reduce the visual contrast associated with visually discordant structural features and industrial character, though not sufficiently to reduce the aesthetic impact to a level that would be less than significant when viewed by the residents and visitors to Lake Tamarisk Desert Resort. Therefore, the resulting visual impact would remain significant and unavoidable.

In addition to the above two KOP 4 figures from December 2022 (Figures 3.2-5A and 5B), a second series of images (Figures 3.2-5D and 5E) was captured in October 2023 but with an 8-foot camera elevation (above the ground). This slightly elevated view was obtained and evaluated because it was thought to be more representative of the "porch-height" views that some of the private residences along the eastern resort perimeter experience. The Existing View image presented in Figure 3.2-5D captures essentially the same landscape features that are shown in the same frame of view presented in the original existing view presented in Figure 3.2-5D was captured almost a year later following substantial rain events. As a result, some vegetation is noticeably greener, and some vegetation growth has occurred providing a very slight increase in screening in some portions of the image. Also, additional solar facilities have been installed in the landscape since the December 2022 set of images.

Figure 3.2-5E presents a panoramic visual simulation of the proposed Project as viewed with a camera height of 8 feet (i.e., approximate porch height view). As shown in the simulation, there is a very slight increase in visibility of some project features due to the ability to "see over" some of the intervening screening vegetation. However, in other cases, the increased camera (viewing) height has been offset somewhat by additional vegetation growth that has occurred over the past year. Regardless, the overall visual change captured by the two different camera (viewing) heights is similar and would not change the overall impact conclusion. Although the KOP 4 viewpoint is considered reasonably representative of publicly available project views from the eastern portion of the resort, it is acknowledged that some public views and private residential views within the resort may be more or less visually affected by the proposed Project due to the presence of lesser or greater vegetative screening.

<u>KOP 5 – Northbound SR-177</u>. Figure 3.2-6A presents the existing view of the central portion of Chuckwalla Valley from KOP 5 on northbound SR-177, approximately 1.5 miles northeast of Desert Center. Figure 3.2-6B presents a visual simulation that encompasses a portion of the Project in the vicinity of SR-177. While

much of the Project would be screened from view by intervening vegetation (at this and similar viewing locations), portions of the solar arrays along the valley floor would be visible with viewing distances ranging from approximately 0.9 mile to approximately 3 miles. The arrays would present as a visually noticeable, dark- to light-colored horizontal band extending across the valley floor (depending on panel orientation and time of day). The Project substation (a termination point for the gen-tie line) and O&M building would be partially visible to the west of SR-177 (left in this image) at a viewing distance of approximately 0.7 mile. A portion of the BESS, which would be white in color, would be partially visible behind and beyond the substation and O&M building at a viewing distance ranging from approximately 0.7 to 0.9 mile. The proposed gen-tie line would present as dark, rust-colored, vertical structures at viewing distances (from this location) ranging from approximately 140 feet to approximately 0.7 mile (where it connects to the substation). The gen-tie line would be the most visually prominent Project feature from KOP 5 as it extends south from the substation before turning southwest to parallel the east side of SR-177, and it would exhibit visual characteristics similar to the existing pole line on the opposite side of the road.

In the context of an existing landscape that includes not only the natural landform, vegetative patterns, and earth-tone colors and textures of a desert valley, but also the industrial characteristics of several solar projects in the immediate vicinity of the Project site, the Project would result in varying degrees of visual contrast. Specifically, the Project's prominent linear form and horizontal to vertical lines associated with the solar arrays, BESS, substation, and gen-tie line would result in moderate contrast with the horizontal to angular and irregular forms and lines of the existing landforms (valley floor and background mountains) and the patchy and irregular forms and lines of the valley vegetation. However, the Project's form and line contrast would be consistent with the nearby solar facilities and utility lines already established in the landscape, including the wood-pole utility line that parallels the west side of SR-177. The Project's dark array panels would result in moderate to strong contrast with the lighter earth tones of the valley's soils and rock and even vegetation but minimal contrast with the existing solar facilities and repaved roadway. The white color of the BESS would result in moderate contrast with the darker vegetation. The dark brown color of the gen-tie poles would result in moderate to strong contrast with the lighter background sky and earth-tone colors of soils and background landforms but would be consistent in color with the adjacent and nearby existing utility poles. The resulting overall color contrast would be moderate to strong. At this viewing distance, the Project's smooth, manufactured surfaces would cause weak contrast with the matte to coarse textures attributable to valley soils, rock, and vegetation and weak contrast with adjacent solar facilities. Therefore, the Project's overall visual contrast as experienced at KOP 5 and similar locations along SR-177 would be moderate.

The Project would constitute a foreground to middleground, visually co-dominant feature in the landscape and would attract the attention of travelers on SR-177. View blockage of higher value landscape features (e.g., valley floor, background mountains, and sky) would be moderate given the impairment of views to distant mountains caused by the gen-tie line. Combining the equally weighted moderate visual contrast, co-dominant project dominance, and moderate view blockage results in a moderate rating for overall visual change, which would degrade the existing visual character and quality of the landscape as viewed from KOP 5 and similar locations along SR-177. Although the resulting visual effect would be adverse, the moderate level of visual change would be allowed under the VRM Class IV management objective that applies to the portion of the Project that would be located on BLM-administered lands (see KOP 5 Contrast Rating Data Sheet in Appendix I).

In the context of the existing landscape's moderate to high visual sensitivity, the Project's moderate visual change would result in a significant aesthetics impact under significance criterion AES-1. Implementation of MMs AES-1 (Surface Treatment of Project Structures and Buildings) and AES-2 (Project Design) and compliance with DRECP CMAs LUPA BIO-7, DFA-VPL-VRM-2, and DFA-VPL-VRM-3 are recommended as they would reduce the visual contrast associated with visually discordant structural features and industrial

character, though not sufficiently to reduce the aesthetic impact to a level that would be less than significant. Therefore, the resulting visual impact would remain significant and unavoidable.

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<u>KOP 6 – Southbound SR-177</u>. Figure 3.2-7A presents the existing view to the southwest from KOP 6 on southbound SR-177, approximately five miles northeast of Desert Center. This view encompasses the western portion of the greater Chuckwalla Valley in the vicinity of SR-177. This viewpoint is representative of the immediate foreground views of the Project area located immediately adjacent to both sides of SR-177. As illustrated in the KOP 6 visual simulation presented in Figure 3.2-7B, the Project would present as a visually significant built feature introduced into a desert valley landscape with an increasing presence of energy infrastructure.

In the context of an existing landscape that includes not only the natural landform, vegetative patterns, and earth-tone colors and textures of a desert valley, the Project would result in varying degrees of visual contrast. Specifically, the prominent linear form, horizontal lines, and dark color of the solar arrays would all exhibit strong visual contrast compared to the angular and irregular forms and lines of the existing landforms (valley floor and background mountains), the patchy and irregular forms and lines of the valley vegetation, and lighter earth tones of the valley's soils, rock, and vegetation, though the dark array panels would cause minimal contrast with the existing repaved roadway. At this viewing distance, the arrays' smooth, manufactured surfaces would cause moderate contrast with the matte to coarse textures attributable to valley soils, rock, and vegetation. The gen-tie line would be barely discernible in the distance, and the BESS, substation, and other components would be substantially screened from view by the arrays and existing vegetation and would contribute no meaningful contrast. Therefore, the Project's overall visual contrast as experienced at KOP 5 and similar locations along SR-177 would be strong (high) and is primarily associated with the solar arrays.

The Project would appear as a visually dominant feature in the landscape and would attract the attention of the casual observer. View blockage of the valley floor and vegetation would be high, while view blockage of the Chuckwalla Mountains and sky would be moderate. Therefore, the overall view blockage would be moderate to high. Combining the equally weighted high visual contrast, dominant project dominance, and moderate to high view blockage results in a high rating for overall visual change, which would degrade the existing visual character and quality of the landscape as viewed from KOP 6 and similar locations along SR-177. Although the resulting visual effect would be adverse, the high level of visual change would be allowed under the VRM Class IV management objective that applies to the portion of the Project that would be located on BLM-administered lands (see KOP 6 Contrast Rating Data Sheet in Appendix I).

In the context of the existing landscape's moderate to high visual sensitivity, the Project's high visual change would result in a significant aesthetics impact under significance criterion AES-1. Implementation of MMs AES-1 (Surface Treatment of Project Structures and Buildings) and AES-2 (Project Design) and compliance with DRECP CMAs LUPA BIO-7, DFA-VPL-VRM-2, and DFA-VPL-VRM-3are recommended as they would reduce the visual contrast associated with visually discordant structural features and industrial character, though not sufficiently to reduce the aesthetic impact to a level that would be less than significant. Therefore, the resulting visual impact would remain significant and unavoidable.

KOP 7 – Lake Tamarisk Desert Resort – North. Figure 3.2-8A in EIR Appendix I presents the existing view from KOP 7 at the northern end of Shasta Drive along the northern boundary of the Lake Tamarisk Desert Resort. The visual simulation presented as Figure 3.2-8B in EIR Appendix I encompasses the western portion of the Project site located north of the resort, which would contain only solar arrays. As previously noted, both of these images are based on an 8-foot camera elevation (above the ground). This slightly elevated view was obtained and evaluated because it was thought to be more representative of the "porch-height" views that some of the private residences along the resort perimeter would experience. While much of the Project shown in Figure 3.2-8B in EIR Appendix I would be screened from view by intervening vegetation, portions of the solar arrays along the valley floor would be partially visible. Where

visible, the arrays would present as a visually noticeable, medium-gray to dark-colored horizontal band (depending on panel orientation and time of day) extending across the valley floor. The open landscape would enable extended view durations of the Project from the resort. In contrast to the closest arrays visible from KOP 4 (approximately 0.24 mile distant), the north array groups closest to KOP 7 range from 0.5 to 0.85 mile distant. Thus, the arrays present as much less visually prominent and more screened by vegetation compared to the closest arrays visible from KOP 4.

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In the context of an existing landscape that is predominantly natural appearing from this location, the Project would result in varying degrees of visual contrast. Specifically, the noticeable linear form and horizontal line associated with the Project's solar arrays would result in weak to moderate (form) to moderate (line) contrast with the horizontal to angular and irregular forms and lines of the existing landforms (valley floor and background mountains) and the patchy and irregular forms and lines of the valley vegetation. The Project's dark array panels, which would be substantially screened by intervening vegetation when viewed from the northern portion of the resort, would also result in moderate contrast with the lighter earth tones of the valley's soils and rock. At this viewing distance, the Project's smooth, manufactured surfaces would cause weak texture contrast with the matte to coarse textures attributable to valley soils, rock, and vegetation. Therefore, the Project's overall visual contrast would be moderate.

The Project would constitute a middleground, visually subordinate to co-dominant feature in the landscape and would attract the attention of residents of, and visitors to, the resort. View blockage of higher value landscape features (e.g., valley floor, background mountains, and sky) would be low to moderate given the low profile of the solar arrays and substantial screening by intervening vegetation. Combining the equally weighted moderate visual contrast, subordinate to co-dominant project dominance, and low to moderate view blockage results in a low to moderate rating for overall visual change, which would degrade the existing visual character and quality of the landscape as viewed from KOP 7 and similar locations in the northern portion of the resort. Although the resulting visual effect would be adverse, the low to moderate level of visual change would be allowed under the VRM Class IV management objective that applies to the portion of the Project that would be located on BLM-administered lands.

In the context of the existing landscape's moderate visual sensitivity, the Project's low to moderate visual change would result in a visual impact that would be perceived as negative but would still be a less-thansignificant aesthetics impact under significance criterion AES-1 in that the solar arrays visible from KOP 7, while visually adverse, would not substantially degrade the existing visual character or quality of the site and its surroundings. The general relationship between Visual Sensitivity and Visual Change in assessing impact significance is illustrated in Table 3.2-1. Although the resulting impact would be less than significant, implementation of MMs AES-1 (Surface Treatment of Project Structures and Buildings) and AES-2 (Project Design) as well as compliance with DRECP CMAs LUPA BIO-7, DFA-VPL-VRM-2, and DFA-VPL-VRM-3 would reduce the visual contrast associated with visually discordant structural features and industrial character that would be visible to the residents and visitors to Lake Tamarisk Desert Resort.

Mitigation Measures for Operation and Maintenance under Impact AES-1

The Project's visible contrast associated with visually discordant structural features and industrial character can be reduced through the implementation of MMs AES-1 and AES-2:

MM AES-1 Surface Treatment of Project Structures and Buildings. See full text in Section <u>3.2.93.2.7</u> (Mitigation Measures).

This measure would result in the surface treatment of select Project components such that their colors and finishes would: (a) blend better with the existing landscape colors; (b) minimize reflectance and glare; and (c) be consistent with local policies and ordinances. This measure would help to reduce overall visual contrast.

MM AES-2 Project Design. See full text in Section <u>3.2.93.2.7</u> (Mitigation Measures).

This measure would include several techniques to reduce the visual contrast that the Project would cause to the existing landscape. Specifically, vegetation would be retained to the extent possible in order to screen the development from public viewing. The number of structures would be minimized to the extent possible, and natural, self-weathering treatments would be employed to reduce color contrast. The amount of disturbed area would be reduced, and the disturbed areas would be blended into the characteristic landscape.

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<u>Compliance with DRECP CMAs LUPA BIO-7, DFA-VPL-VRM-2, and DFA-VPL-VRM-3 would place</u> <u>substantially similar requirements on Project development on BLM-administered land as those included</u> <u>in MMs AES-1 and AES-2, and would therefore, similarly reduce impacts. DRECP CMAs are described in</u> <u>EIR Appendix CC.</u>

Significance After Mitigation

The O&M impacts would remain significant and unavoidable even with implementation of mitigation when viewed from <u>all-six of the seven KOPs</u>.

Impact AES-2. Would the Project create a new source of substantial light or glare, which would adversely affect day or nighttime views in the area?

Visible Night Lighting

LESS THAN SIGNIFICANT WITH MITIGATION. The Project would be located in an area with few existing structures, and the use of uncontrolled or excessive lighting would be noticeable to nearby motorists on I-10 and SR-177 and residents of Desert Center and the Lake Tamarisk Desert Resort. Nighttime lighting would also affect the nighttime experience for dispersed recreational users in the surrounding wilderness. Project operation would require on-site nighttime lighting for safety and security.

As described in MM AES-3 and consistent with DRECP CMA LUPA BIO-13, in order to reduce off-site lighting impacts, lighting at the facility would be restricted to areas required for safety, security, and operation. Security lights would be motion sensitive, and all lighting would be shielded and directed downward to minimize the potential for glare or spillover onto adjacent properties. Low-pressure sodium lamps and fixtures of a non-glare type would be specified. Switched lighting would be provided for areas where continuous lighting would not be required for normal operation, safety, or security. The implementation of these measures would minimize the amount of lighting potentially visible to viewers of the site at night.

However, adverse effects of solar facilities lighting are not necessarily limited to views of the site itself. Excessive lighting can also cause an adverse effect to viewers of the night sky via sky glow, which diminishes the visibility of the nighttime sky and stars. Prevention of off-site light spillage for ground observers does not necessarily prevent back-reflected light (i.e., light reflected off the ground and/or structures from down-directed lamps) from diminishing the visibility of the night sky. Normally, the contribution of project-related lighting is negligible when in an environment with abundant light sources; however, the Project area is highly valued in terms of the quality of its nighttime skies. This is attributable to the scarce and scattered nature of existing light sources in the surrounding area and the prevalence of federally administered land in the region, which limits opportunities for development. While the level of use in the surrounding wilderness is considered to be low, the high visibility of the nighttime sky and stars is an important component of the wilderness experience for many backcountry users and is highly valued by residents of the area. JTNP, which is located to the west and north of the Project, is known throughout the National Park System (NPS) for its significant Dark Sky resource. To serve a substantial public interest in Dark Sky observation, JTNP offers a variety of Night Sky Programs. In the immediate Project area, Dark Sky visitors access the east end of the Pinto Basin through a gate at the north end of Chuckwalla Valley. Although some <u>D</u>dark <u>S</u>sky viewing locations in the Pinto Basin do not have direct line-of-site to the Project due to intervening terrain, there are portions of the Pinto Basin, particularly in the northeast of the Basin, with slightly higher elevations that do have direct line-of-sight to the <u>proposed</u>-Project site. Because any light source in the desert contributes to ambient light pollution, and all light sources are adversely cumulative in terms of the impact on human dark adaptation and the dwindling availability of Dark Sky observation areas, it is essential that substantial steps be taken to ensure that additional night sky light pollution does not occur from implementation of the Project.

It is estimated that the contribution of the Project's lighting to sky glow would be minor. Light sources in the Chuckwalla Valley currently include motorists on I-10; street lamps, residences, and other commercial/service land uses in the communities of Desert Center and Lake Tamarisk; lighting associated with the former Desert Center Airport (now a private, special-use airport); motorists on local roads; and widely scattered homesteads on private land in the region. Additionally, there are several solar projects that are either existing or under construction. Despite the presence of these existing and eminent light sources, the area remains highly valued for the quality of its night sky. Because permanent lighting would not be required for the arrays of photovoltaic panels, operational lighting would be confined to a small portion of the Project site that contains O&M facilities and the switchyard and is unlikely to be totally out of character with other existing lighting sources found scattered throughout the Chuckwalla Valley. Further, MM AES-3 includes standards that light intensity must be the minimum necessary to ensure worker safety and facility security, that direct lighting not illuminate the nighttime sky, and that Project night lighting does not adversely affect the Ddark Ssky viewing program at JTNP because it requires review and approval of the Project Lighting Mitigation Plan prepared under MM AES-3 by the NPS Night Sky Program Manager. This review would ensure that the Project meets the stricter night lighting specifications of the NPS Night Sky Viewing Program, and that lighting exposure levels (based on a Lumen Analysis) do not exceed the action threshold for NPS lands nor adversely affect JTNP's Night Sky Viewing Program.

Additionally, hazard lighting may be required for the tallest gen-tie structures at crossing locations due to safety concerns with low-level military flights in the area. If installed, these lights would be infrared, and therefore, not visible to the human naked eye, and thus, would not create night lighting or Dark Sky impacts.

Because the impacts associated with nighttime lighting would be limited in nature and reduced by MM AES-3 and compliance with DRECP CMA LUPA BIO-13, the night lighting impact is considered significant but mitigable under the AES-2 impact criterion.

Daytime Glare

LESS THAN SIGNIFICANT WITH MITIGATION. Daytime glare from the Project solar PV panels could adversely affect travelers, including pilots in the area, and may affect daytime views from Desert Center and the Lake Tamarisk Desert Resort. Quantification of the glare effect to pilots and travelers on the major roads of the area provides details on the duration and type of glare for these receptors. The The following paragraphs summarize the results of the Glare Assessment, which is presented in full (with all attachments) in Appendix I.

Modeled observation points included two route receptors, <u>representing ground-level travelers</u> along <u>State Route (SR) SR-</u>177/Rice Road and R2/Kaiser Road, and one flight path receptor at the Desert Center Runway Approach. <u>Modeled receptors also include two low-level military training routes that intersect</u> <u>the airspace above the Project. Receptors are modeled for flight along MTR ID-217 at a low altitude limit</u> of 200 feet above ground level, and along MTR ID-296 at 300 feet above ground level. Additionally, model runs were conducted for U.S. FAA 2013 and the 2021 Policy Adherence. There are no Air Traffic Control Towers (ATCTs) within two miles of the Project; therefore, there were no ATCT receptors assessed. According to the model results, no the flight path receptors on the Desert Center Runway Approach would not be impacted by glare from the solar panels; however, some portions of the ground-level routes and MTR receptors have a low potential of being impacted by any glare.

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Green glare is predicted for the route receptor <u>representing ground-level travelers</u> along SR-177/Rice Road from the Project PV arrays adjacent to the road for 313,668 minutes (5,227 hours) of the year. Any potential glare impacts for this route receptor would occur year-round approximately between 5:30 a.m. and 12:30 p.m. Additionally, mid-March through the end of September, there is a potential for glare between the hours of 2:00 p.m. and 7:00 p.m.

Similarly, green glare is predicted for the route receptor <u>representing ground-level travelers</u> along R2/ Kaiser Road from the Project PV arrays east of Kaiser Road for 45,249 minutes (754 hours) of the year. Any potential glare impacts for this route receptor would occur from January to mid-May and from mid-July to December, with an approximate maximum duration of 12:00 p.m. to 5:00 p.m. From May to August, potential glare impacts would occur from 6:00 p.m. to 7:00 p.m.

Modeled glare along Kaiser Road is rather limited and is focused along the parts of the road where panels are immediately adjacent to the roadway. Based on the modeling results along Kaiser Road, it is expected that any glare to the Lake Tamarisk community would be along the immediate western edge of the solar facility array field that is located northeast of the community. Since the community is set back farther from panels compared to modeled portions of Kaiser Road, glare impacts would be less than along Kaiser Road and similarly less than significant.

The Aviation Reports to analyze U.S. FAA policy adherence relative to the 2013 and 2021 policies concluded that there would be no glare of any kind for ATCTs, and that there would be no yellow glare for any the Desert Center Runway Approach flight path receptors within two miles. <u>Military pilots at the low</u> <u>altitude limits of MTR in the area could receive green glare at a total annual rate of up to 322,336 minutes</u> (5,372 hours), depending on location. The total annual green glare reported by the model for each receptor may include duplicate times of glare from multiple reflective surfaces.

In conclusion, green glare, having a low potential for temporary after-image, is predicted at various levels along area roadways, <u>MTR ID-217 at 200 feet above ground level</u>, and <u>MTR ID-296 at 300 feet above ground level</u>, as a result of the Project. There is no yellow glare predicted.

Implementation of MMs AES-1 (Surface Treatment of Project Structures and Buildings) and AES-2 (Project Design) and compliance with DRECP CMAs LUPA BIO-7, DFA-VPL-VRM-2, and DFA-VPL-VRM-3 would reduce glare through use of glare-reducing surface treatments and retention of vegetation to screen the Project and reduce visible reflectance. With implementation of these MMs and compliance with these CMAs, any potentially significant glare impacts would be reduced to less than significant. The Project would not be a substantial source of glare for travelers, including pilots in the area. The impact of daytime glare to views from Desert Center and the Lake Tamarisk Desert Resort would not be significant. It is expected that such glare impacts would be substantially less than that associated with other solar technologies because photovoltaic panels are less reflective, and it is anticipated that the resulting visual impact would be less than significant under significance criterion Impact AES-2. Actual impacts to pilots and travelers on the major roads of the area may vary from these representative model results depending on the final types of PV arrays selected and their configurations within the Project parcels.

Mitigation Measures under Impact AES-2

The Project's visible contrast associated with uncontrolled night lighting during construction, O&M, and decommissioning can be reduced through the effective implementation of MM AES-3:

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MM AES-3 Night Lighting Management. See full text in Section <u>3.2.93.2.7</u> (Mitigation Measures).

The Project's visible contrast associated with daytime structural glare can be reduced through the implementation of MMs AES-1 and AES-2:

MM AES-1 Surface Treatment of Project Structures and Buildings. See full text in Section <u>3.2.93.2.7</u> (Mitigation Measures).

MM AES-1 would result in the treatment of structural surfaces such that they do not create excessive glare from surface brightness. As a result, MM AES-1 would reduce structural surface glare and help the Project structures blend better with the surrounding landscape.

MM AES-2 Project Design - Retention of Roadside Vegetation. See full text in Section <u>3.2.93.2.7</u> (Mitigation Measures).

<u>Vegetation management under Project Design would retain existing vegetation, particularly along</u> <u>roadsides in order to intersect sightlines from public vantage points such that overall Project visibility,</u> <u>visible reflectance, and glare would be reduced.</u>

<u>Compliance with DRECP CMAs LUPA BIO-7, DFA-VPL-VRM-2, and DFA-VPL-VRM-3 would place</u> <u>substantially similar requirements on Project development on BLM-administered land as those included</u> <u>in MMs AES-1 and AES-2, and would therefore, similarly reduce impacts. DRECP CMAs are described in</u> <u>EIR Appendix CC.</u>

Significance After Mitigation

The night lighting and glare impacts would be reduced to levels that would be less than significant with implementation of mitigation when viewed from all KOPs.

Impact AES-3. Would the Project result in the creation of an aesthetically offensive site open to public view?

LESS THAN SIGNIFICANT WITH MITIGATION, CONSTRUCTION AND DECOMMISSIONING; SIGNIFICANT AND UNAVOIDABLE, OPERATIONS AND MAINTENANCE. As with impacts discussed under Criterion AES-1, the Project's high visual change would result in a significant aesthetics impact under significance criterion AES-3. Additionally, the O&M impacts would remain significant and unavoidable even with implementation of mitigation and DRECP CMA compliance. The aesthetic effects visible to the public are assessed from representative viewpoints and are discussed under Impact Criterion AES-1 above. The reader is referred to that the discussion and associated mitigation under Impact AES-1.

Impact AES-4. Would the Project expose residential property to unacceptable light levels?

Less THAN SIGNIFICANT WITH MITIGATION. The Project's night lighting effects are discussed under Impact Criterion AES-2 above. The reader is referred to that discussion.

Impact AES-5. Would Project construction, operation, or decommissioning result in an inconsistency with regulatory plans, policies, and standards applicable to the protection of aesthetics?

LESS THAN SIGNIFICANT WITH MITIGATION. As presented in Section 3.2.1.2 (Local Laws, Regulations, and Policies), the Project would be subject to federal and local regulatory plans, policies, and standards

applicable to the protection of aesthetics. Table 3.2-2 (Consistency with Regulatory Plans, Policies, and Standards) describes the Project's consistency with applicable regulatory requirements.

Table 3.2-2.	Consistency with Regulatory Plans, Policies, and Standards
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	olicies/Standards Description	Consistency Analysis
Federal	Land Policy and Management Act / CDCA F	Plan / BLM VRM System – Gen-Tie Line
	Scenic values are to be considered in management actions and VRM objec- tives and Contrast Rating procedures are to be used to manage visual resources.	Consistent . Contrast Rating data sheets were prepared for the BLM for each KOP and used to evaluate the Project on BLM-administered public lands. In all cases, the levels of change were found to be consistent with the levels of change allowed by the applicable VRM Class IV management objective.
Riversid	e County General Plan Land Use Element (
LU 4.1	 Require that new developments be located and designed to visually enhance, not degrade the character of the surrounding area through consideration of the following concepts: a. Compliance with the design standards of the appropriate area plan land use category. b. Require that structures be constructed in accordance with the requirements of Riverside County's zoning, building, and other pertinent codes and regulations. o. Preserve natural features, such as unique natural terrain, arroyos, canyons, and other drainage ways, and native vegetation, wherever possible, particularly where they provide continuity with more extensive regional systems. 	Consistent . The Project would result in the conversion of a large land area in the Chuckwalla Valley to an industrial appearing energy facility resulting in an adverse aesthetic impact. However, this impact does not result in an inconsistency given the development context that is already in place in the immediate vicinity of the Project site. Specifically, there are no unique natural features or terrain at the Project site, and the overall visual quality is common to the broader Chuckwalla Valley. Furthermore, the Project features would be visually consistent with other existing (and under construction) solar generation and electric transmission facilities in the immediate Project vicinity. <u>As a result, t</u> <u>The Project would comply with County design standards and codes, which would be required for incorporation as part of the Project's Construction Permit (Building Permit) following CUP/PUP approval.</u>
LU 7.1	Require land uses to develop in accord- ance with the General Plan and area plans to ensure compatibility and mini- mize impacts.	Consistent . The Project would be consistent with the Desert Center Area Plan with regard to control of night lighting and scenic highways.
LU 9.1	Provide for permanent preservation of open space lands that contain important natural resources, cultural resources, hazards, water features, watercourses including arroyos and canyons, and scenic and recreational values.	Consistent <u>The Project site is not located on open space lands</u> that contain important natural resources, cultural resources, scenic values, or other resources. The private parcels consist of primarily man-made features that include deciduous orchard/fallow agriculture or developed areas, and the BLM- administered public lands are located within a Development Focus Area (DFA) that encourages renewable energy devel- opment. The Project site's landscape is generally lacking in visual variety and scenic quality and is substantially influenced by the abundance of anthropogenic modifications in the Project area including several adjacent or nearby solar projects (either operational or under construction); numerous trans- mission lines; Red Bluff Substation; Interstate 10 (I-10); SR-177; scattered residences; and other built structures and roads. Although the Project would be a new element in the landscape, the visual changes would be in kind with the current nature and scope of existing visible developments. The Project also would not impact protected open spaces areas in the region, such as desert tortoise conservation areas, Areas of Critical Environmental Concern, and Recreation Management Areas. The Project is not within an area with important scenic values.

Plans/Pc	blicies/Standards Description	Consistency Analysis
LU 9.2	Require that development protect envi- ronmental resources by compliance with the Multipurpose Open Space Element of the General Plan and federal and state regulations such as CEQA, NEPA, and Clean Air Act, and Clean Water Act.	Consistent . The Project would be consistent with the Multi- purpose Open Space Element of the General Plan with respect to the design of development within designated scenic highway corridors. The Project would also be consistent with federal regulations as discussed above, and this EIR documents the Project's adherence to the requirements of CEQA.
LU 14.1	Preserve and protect outstanding scenic vistas and visual features for the enjoy- ment of the traveling public	Consistent . There are no outstanding scenic vistas in the general Project area, and there are no outstanding visual features on the Project site. The relatively flat desert landscape of the Project site has a low level of visual variety and distinctiveness, and exhibits limited variation in form, line, color palette, and texture that is common to the broader Chuckwalla Valley. The adjacent landscape includes solar projects, solar projects under construction, and electric transmission facilities, both existing and under construction.
LU 14.3	Ensure that the design and appearance of new landscaping, structures, equip- ment, signs or grading within Designated and Eligible State and County Scenic Highways corridors are compatible with the surrounding scenic setting or envi- ronment.	Consistent . The Project would be visible from I-10, which is a County Eligible Scenic Highway. However, the visual characteristics of the proposed solar facilities and gen-tie line would be consistent with other solar projects, both existing and under construction, that are located adjacent to, or in the immediate vicinity of, the Project.
LU 14.4	Maintain an appropriate setback from the edge of the right-of-way for new development adjacent to Designated and Eligible State and County Scenic Highways.	Consistent . At its closest point, the Project's gen-tie line would parallel I-10 at a distance of approximately 0.3 miles. It would then turn south and enter the Oberon Project Substation, just north of I-10. However, throughout this portion of the gen-tie route it would follow an established transmission line corridor with other transmission lines connecting to the Oberon Project Substation on the north side of I-10, while the other (non- Project) transmission lines would continue across I-10 to connect into Red Bluff Substation.
LU 14.5	Require new or relocated electric or communication distribution lines, which would be visible from Designated and Eligible State and County Scenic Highways, to be placed underground	Consistent . There are no designated Scenic Highways in the Project vicinity, but I-10 has been identified by the County of Riverside as eligible for designation as a scenic corridor. The Project's gen-tie line, connecting the Project to the Oberon Project Substation on the northern side of I-10 would be an overhead 500 kV line almost entirely on federal land. The Project is considered consistent with this policy, because the gen-tie line would be on federal land and because the visual characteristics of the gen-tie line would be consistent with the numerous overhead gen-tie, distribution, and bulk transmission lines in the Desert Center area, some of which follow the same transmission line corridor paralleling I-10 to the Oberon Project Substation that the Project would.
LU 21.1	Require that grading be designed to blend with undeveloped natural con- tours of the site and avoid an unvaried, unnatural, or manufactured appearance.	Consistent. Given the level nature of the Project site, any necessary grading would be consistent with the existing natural contours. Drainage areas of the site would be unaltered. The solar facilities would exhibit a manufactured appearance when viewed from certain locations. However, because the Project features would be visually consistent with other existing (and under construction) solar generation and electric transmission facilities in the immediate Project vicinity, the Project is considered consistent with Policy LU 21.1.
LU 21.3	Ensure that development does not adversely impact the open space and rural character of the surrounding area.	Consistent . While the Project would exhibit an industrial, man- ufactured appearance and cause potentially adverse visual impacts to the existing open space and rural character of the surrounding area when viewed from certain locations, the

Plans/Po	licies/Standards Description	Consistency Analysis
		Project would be located in an area that contains existing solar facilities of similar design and is receiving more solar facilities that are currently under construction. The visual impacts of the project would not result in a policy inconsistency given the renewable energy development and energy infrastructure trends already established in the Chuckwalla Valley. Also, the Project features would be visually consistent with other existing (and under construction) solar generation and electric transmission facilities in the immediate Project vicinity.
LU 26.1	Require that development be designed to blend with undeveloped natural con- tours of the site and avoid an unvaried, unnatural, or manufactured appearance.	Consistent . Given the level nature of the Project site, any necessary grading would be consistent with the existing natural contours. With Project buildout, the solar facilities would exhibit a manufactured appearance when viewed from certain locations; however, because the Project features would be visually consistent with other existing solar generation and electric transmission facilities and facilities under construction in the immediate Project vicinity, the Project would be consistent with Policy LU 26.1.
LU 26.3	Ensure that development does not adversely impact the open space and rural character of the surrounding area.	Consistent . While the Project would exhibit an industrial, manufactured appearance and cause potentially adverse visual impacts to the existing open space and rural character of the surrounding area when viewed from certain locations, the Project would be located in an area that contains existing solar facilities of similar design and is receiving more solar facilities that are currently under construction. The visual impacts of the project would not result in a policy inconsistency given the renewable energy development and energy infrastructure trends already established in the Chuckwalla Valley. Also, the Project features would be visually consistent with other existing (and under construction) solar generation and electric transmission facilities in the immediate Project vicinity.
Circulatio	on Element	
C 19.1	Preserve scenic routes that have excep- tional or unique visual features in accordance with Caltrans' Scenic High- way Plan.	Consistent . The Project would not be located within a designated scenic highway corridor. I-10 in the vicinity of the Project is an Eligible (but not Designated) County Scenic Highway, but the Project site does not contain exceptional or unique visual features. Also, the Project would be visually consistent with other existing (and under construction) solar generation and electric transmission facilities in the immediate Project vicinity.
C 25.2	Locate new and relocated utilities under- ground when possible and feasible. All remaining utilities shall be located or screened in a manner that minimizes their visibility by the public.	Consistent . The Project's gen-tie line, connecting the Project to Oberon Project Substation on the north side of I-10 would be an overhead line, and remaining utilities would not be screened from public view. However, underground construction of a 500 kV transmission line from the Easley Project Substation to the Oberon Project Substation would have marginal technical feasibility and would not be economically feasible. In addition, the visual characteristics of the Project would be consistent with the numerous overhead gen-tie, distribution, and bulk transmission lines in the immediate Project vicinity, some of which follow the same transmission line corridor to the Oberon Switchyard that the Project line would. The solar field and associated equipment and structures cannot be placed underground.
Multi-Pu	rpose Open Space Element	
OS 21.1	Identify and conserve the skylines, view corridors, and outstanding scenic vistas within Riverside County	Consistent . The relatively low height of the Project's solar arrays along the valley floor would not obstruct skylines, view corridors, or outstanding scenic vistas. The taller gen-tie facilities also would not obstruct views of outstanding scenic

Plans/Po	licies/Standards Description	Consistency Analysis
		vistas and would be visually consistent with other existing electric transmission facilities in the immediate Project vici- nity, some of which follow the same transmission line corridor to the Oberon Project Substation that the Project would.
OS 22.1	Design developments within designated scenic highway corridors to balance the objectives of maintaining scenic resources with accommodating compatible land uses.	Consistent. The Project would not be located within a designated scenic highway corridor. I-10 in the vicinity of the Project is an Eligible (but not Designated) County Scenic Highway. Also, the Project features would be visually consistent with other existing (and under construction) solar generation and electric transmission facilities in the immediate Project vicinity.
OS 22.4	Impose conditions on development within scenic highway corridors requir- ing dedication of scenic easements consistent with the Scenic Highways Plan, when it is necessary to preserve unique or special visual features.	Consistent . The Project would not be located within a designated scenic highway corridor. I-10 in the vicinity of the Project is an Eligible (but not Designated) County Scenic Highway, but the Project site does not contain unique or special visual features. Also, the Project features would be visually consistent with other existing (and under construction) solar generation and electric transmission facilities in the immediate Project vicinity.
Desert Co	enter Area Plan	
DCAP 2.3	Assure that the design of new land uses subject to discretionary review visually enhances, and does not degrade, the character of the Desert Center Region.	Consistent . While the Project would exhibit an industrial, manufactured appearance and cause adverse visual impacts to the existing open space and rural desert character of the Desert Center Region when viewed from certain locations, the Project would be located in an area that contains existing solar facilities of similar design and is receiving more solar facilities that are currently under construction. The visual impacts of the Project would not result in a policy inconsistency given the renewable energy development and energy infrastructure trends already established in the Chuckwalla Valley and Desert Center region. Also, the Project features would be visually consistent with other existing (and under construction) solar generation and electric transmission facilities in the immediate Project vicinity.
DCAP 4.1	When outdoor lighting is used, require the use of fixtures that would minimize effects on the nighttime sky and wildlife habitat areas, except as necessary for security reasons.	Consistent. Security lights around the substation, inverters, gates, and along the perimeter fencing would be motion sensitive and directional. All lighting would be shielded and directed downward to minimize the potential for glare or spillover onto adjacent properties. Further, with implementation of Mitigation Measures AES-1, <u>AES-2</u> , and AES-3, night lighting and glare impacts would be kept to levels that would be less than significant.
DCAP 8.1	Protect the scenic highways within the Desert Center Area Plan from change that would diminish the aesthetic value of adjacent properties through adher- ence to the policies found in the Scenic Corridors sections of the General Plan Land Use, Multipurpose Open Space, and Circulation Elements.	Consistent . Although the Project would not be located within the viewshed of a designated scenic highway corridor, it would be visible from I-10, which is a County Eligible Scenic Highway Corridor. However, the Project features would be visually consistent with other existing solar generation and electric transmission facilities in the immediate Project vicinity.

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Mitigation Measures for Impact AES-5

Effective implementation of MMs AES-1<u>, AES-2</u>, and AES-3 would mitigate the Project's visible contrast associated with night lighting and glare during construction and operation and would help to ensure the Project's consistency with Riverside County General Plan Land Use Element Policy LU 4.1 and Desert Center Area Plan Policy DCAP 4.1.

MM AES-1 Surface Treatment of Project Structures and Buildings. See full text in Section 3.2.93.2.7 (Mitigation Measures).

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MM AES-1 would result in the treatment of structural surfaces such that they do not create excessive glare from surface brightness.

MM AES-2 Project Design. See full text in Section 3.2.7 (Mitigation Measures).

<u>Vegetation management under Project Design would retain existing vegetation, particularly along</u> <u>roadsides in order to intersect sightlines from public vantage points such that visible reflectance</u> <u>and glare would be reduced</u>.

MM AES-3 Night Lighting Management. See full text in Section <u>3.2.9</u>3.2.7 (Mitigation Measures).

<u>Compliance with DRECP CMAs LUPA BIO-7, LUPA-AIR-5, LUPA BIO-13, DFA-VPL-VRM-2, and DFA-VPL-VRM-3 would place substantially similar requirements on Project development on BLM-administered land as those included in MMs AES-1, AES-2, and AES-3, and would therefore, similarly reduce impacts. DRECP CMAs are described in EIR Appendix CC.</u>

Significance After Mitigation

The night lighting and glare impacts associated with Riverside County General Plan Land Use Element Policy LU 4.1 and Desert Center Area Plan Policy DCAP 4.1 would be less than significant with effective implementation of MMs AES-1, AES-2, and AES-3, as well as compliance with DRECP CMAs LUPA BIO-7, LUPA-AIR-5, LUPA BIO-13, DFA-VPL-VRM-2, and DFA-VPL-VRM-3.

<u>As described in Table 3.2-2, t</u>The Project's inconsistences or partial inconsistencies would be consistent with <u>all policies, plans, and standards</u> Riverside County General Plan Land Use Element (LU) Policies 4.1, 14.5, 21.1, 21.3, 26.1, and 26.3; Circulation Element (C) Policy 25.2; and DCAP Policy 2.3 are not considered significant given the absence of scenic resources on the Project site, the Project's consistency with the applicable BLM VRM Class IV management objective, the renewable energy development and energy infrastructure trends already established in the Chuckwalla Valley, and the visual consistency of the Project features with other existing (and under construction) solar generation and electric transmission facilities in the immediate Project vicinity.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.2.6. Cumulative Impacts

3.2.6.1. Geographic Scope

Impacts resulting from construction, operation, and decommissioning of the Project would result in a cumulative effect on aesthetics with other past, present, or probable future projects. The geographic scope of the cumulative effects analysis for aesthetics consists of the I-10 corridor, the greater Chuckwalla Valley, and the Project-facing slopes and ridges of the surrounding mountains, including portions of JTNP, and is based primarily on the natural boundaries of the affected resource where direct effects would occur (i.e., shared viewsheds). Secondarily, the geographic scope also considers the indirect effect of the perceived industrialization of the I-10 corridor, which is associated with the proliferation of energy facilities across the landscape. Therefore, for the purposes of this analysis, the area of direct effect generally extends from the eastern portion of JTNP southeast to the easternmost boundary of the Palen Solar Project, east of the Project site. The area of indirect effect extends along I-10 from the intersection with Eagle Mountain Road, approximately three miles west of Desert Center, to Ford Dry Lake Road overpass, which is just under 12 miles east of the Palen Solar Project and approximately three miles south of the existing Genesis Solar Energy Project. Also visible from this location are the existing Devers-Palo Verde 1

and Devers-Colorado River transmission lines, the existing Blythe Energy Project Transmission Line, and the probable future Desert Southwest Transmission Line, all paralleling the south side of I-10.

Past, present, and probable future projects making up the cumulative scenario for aesthetics are listed below and in Tables 3.1-1 and 3.1.2, and shown on Figure 3.1-1, Cumulative Projects:

Past and Present Projects in the Project Area (Numbers correspond to Table 3.1-1):

- 1. West-wide Section 368 Energy Corridors
- 4. Genesis Solar Energy Project
- 6. Desert Sunlight Solar Project
- 7. SCE Red Bluff Substation
- 8. Devers-Palo Verde No. 1 Transmission Line
- 9. Devers-Colorado River Transmission Line
- 10. Blythe Energy Project Transmission Line
- 13. Desert Harvest Solar Project
- 14. Palen Solar Project
- 18. Athos Renewable Energy Project
- 19. Oberon Renewable Energy Project
- 21. Victory Pass Solar Project
- 22. Arica Solar Project

Probable Future Projects in the Project Area (Letters correspond to Table 3.1-2):

- A. Desert Southwest Transmission Line
- C. Eagle Mountain Pumped Storage Project
- D. Sapphire Solar Project
- E. Lycan Solar Project
- H. Redonda Solar Project
- I. Skybridge Eagle Mountain Hydrogen Project
- L. SCE Colorado River-Red Bluff 500 kV #1 Line Upgrade
- M SCE Devers-Red Bluff 500 kV #1 and #2 Lines Upgrade

These projects include 13 local, existing (past and present) energy projects and six-8 local, probable future energy projects. These projects would all be within the field of view of at least portions of the proposed Project and are expected to result in cumulative visual impacts for travelers along I-10 and/or SR-177 as well as residents and dispersed recreational users in the surrounding areas.

If adopted, the proposed expansion of Joshua Tree National Park and creation of Chuckwalla National Monument would re-designate existing federal lands in the Project vicinity but would not create physical changes in the environment that would contribute to cumulative visual impacts. Such designations would afford additional protection to maintain the natural setting of the desert landscape.

3.2.6.2. Cumulative Impact Analysis

Although numerous existing cultural modifications are visible along the I-10 corridor and in the Desert Center area of the Chuckwalla Valley (transmission lines; substations; pipelines; solar projects; communication towers; 4-wheel drive tracks; widely scattered commercial buildings, dilapidated structures, and roadside signs; and a few agricultural operations), the grand scale of the open desert panoramas impart an overall general impression of a historically natural-appearing desert landscape that is now in transition to that of a developed energy zone characterized by numerous solar energy facilities, either existing or under construction. The cumulative scenario includes many large solar projects and transmission lines whose scale and pervasiveness are having adverse cumulative effects. If all the projects are implemented, they would substantially degrade the visual character and general scenic appeal of the existing landscape, resulting in the conversion of a relatively undeveloped desert landscape into a more industrialized appearance.

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In some viewing cases, the visibility and apparent scale of the projects is (for existing and under construction), or would be (for probable future), diminished somewhat by favorable topographic relationships and vegetative screening. For other viewing opportunities, some projects appear (existing and under construction), or would appear (probable future), reduced in visual prominence due to their viewing distances and low angle of view. In still other cases, projects blend (existing and under construction), or would blend (probable future) in with the vegetation or horizon line of the valley floor, and the rugged mountains would remain the dominant visual features in the landscape.

KOP 3 on Alligator Rock provides a slightly elevated view overlooking the broader Chuckwalla Valley and numerous solar projects. From KOP 3, the Oberon project, which began commercial operation in fall 2023, would be is located south and southeast of the Project and would appears in the foreground of views toward the Project. The impact assessment from this location would also be applicable to the lower elevations of the Chuckwalla Mountains that would be encompassed by the Chuckwalla NM. Also, fFrom various elevated locations within JTNP, the proposed Project would be visible along with one or more of the cumulative projects. For example, from the Buzzard Springs area and adjacent wilderness, the Project would be visible along with the existing (and under construction) Desert Sunlight, Desert Harvest, Oberon, Athos, Victory Pass, Arica, and Palen solar projects, and the probable future Sapphire, Lycan, and Redonda solar projects, as well as the SCE Colorado River-Red Bluff 500 kV #1 Line Upgrade and Devers-Red Bluff 500 kV #1 and #2 Line Upgrade (depending on work required for the line upgrades). Similarly, the proposed Project, along with multiple cumulative projects, would be visible from portions of the Eagle and Coxcomb mountains in JTNP, the Palen-McCoy Wilderness to the east, the Sheephole Valley Wilderness to the north, and the Chuckwalla Mountains Wilderness to the south. However, it should be noted that these cumulative impacts would be experienced at greater viewing distances ranging from seven to 25 miles.

As a result, the proposed Project, in combination with the 13 <u>past and present</u> local energy projects, would contribute to significant cumulative visual impacts when viewed by sensitive viewing populations along I_10 and SR_177, from nearby residences, from portions of JTNP, and in the surrounding mountains and wilderness. The Project's contribution to the impacts would be from the introduction of substantial visual contrast associated with discordant geometric patterns in the landscape; the introduction of large-scale, built facilities with prominent industrial character; the creation of unnatural lines of demarcation in the valley floor landscape and inconsistent color contrasts; and from the addition of visible night lighting within the broader Chuckwalla Valley. For many travelers along I-10, the scenic experience would be substantially degraded due to the perceived "industrialization" of the landscape. The impacts from the adjacent solar projects would be similar to those of the Project and the applicable mitigation measures would be similar or the same. However, in all cases, the implementation of these mitigation measures, individually or collectively, would be insufficient to reduce the resulting impacts to levels that would be less than significant.

Mitigation Measures for Cumulative Impacts

Effective implementation of MM AES-1 (Surface Treatment of Project Structures and Buildings), MM AES-2 (Project Design), MM AES-3 (Night Lighting Management), and MM BIO-5 (Vegetation Resources Management Plan) would reduce the severity of the Project's contribution to the cumulative visual effects, though the Project's contribution would still be <u>cumulatively</u> considerable. <u>MM AES-1</u> would reduce structural <u>surface glare and help the Project structures blend better with the surrounding landscape. MM AES-2</u> would help to retain vegetative screening, which would reduce overall Project visibility and would reduce structural contrast and glare. MM AES-3 would result in better management and control of night lighting

and would reduce night lighting impacts on Dark Sky viewing, nearby and adjacent roads (motorists), and nearby residences. Compliance with DRECP CMAs LUPA BIO-7, LUPA-AIR-5, LUPA BIO-13, DFA-VPL-VRM-2, and DFA-VPL-VRM-3 would place substantially similar requirements on Project development on BLMadministered land as those included in MMs AES-1, AES-2, AES-3, and BIO-5, and would therefore, similarly reduce impacts. DRECP CMAs are described in EIR Appendix CC.

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Significance After Mitigation

Even with implementation of mitigation measures, there would be significant cumulative visual impacts when viewed by sensitive viewing populations along I-10 and SR-177, from nearby residences, from portions of JTNP, and in the surrounding mountains and wilderness. The Project would make a considerable contribution to these visual impacts.

3.2.7. Mitigation Measures and Applicant Proposed Measures

- APM VIS-1 Weathering Coating of Security Fencing. To reduce operational visual impacts of the Project to the community of Lake Tamarisk, the Project owner will apply a weathering coating (Natina or substantially similar) to the Project security fencing located closest to the <u>c</u>-community. The coating would reduce <u>the occurrence of</u>-reflectance, which would be visually distracting, and the <u>typically</u>-earth-tone color of the coating would reduce the industrial character of the fencing and help it to blend more effectively with the surround-ing landscape. The total length of fencing that will be coated is approximately one mile and may be contiguous or <u>in</u> separate sections, depending on the final Project design and the location(s) of most visible security fencing.
- MM AQ-1 Fugitive Dust Control Plan. See full text in Section 3.4, Air Quality.
- MM BIO-5 Vegetation Resources Management Plan. See full text in Section 3.5, Biological Resources.
- **MM AES-1** Surface Treatment of Project Structures and Buildings. The Project owner shall treat the surfaces of all non-temporary, large Project structures and buildings (<u>e.g.</u>, O&M building, <u>substation components</u>, inverters, electrical enclosures, gen-tie poles and conductors) visible to the public such that: (a) their colors minimize visual intrusion and contrast by blending with (matching) the existing characteristic landscape colors; (b) their colors and finishes do not create excessive glare from surface brightness; and (c) their colors and finishes are consistent with local policies and ordinances. The transmission line conductors shall be non-reflective, and the insulators shall be non-reflective and non-reflective.

Following a consultation with the Riverside County and BLM visual resources specialists, and other representatives as deemed necessary, the Project owner shall submit for the County's and BLM's review, a specific Surface Treatment Plan that will satisfy these requirements. The consultation shall be in-field at the agencies' election, or as a desktop review if preferred by the agencies. The treatment plan shall include:

- (a) A description of the overall rationale for the proposed surface treatment, including the selection of the proposed color(s) and finishes based on the characteristic land-scape. Colors shall be field tested using the actual distances from the KOPs to the proposed structures, using the proposed colors painted on representative surfaces;
- (b) A list of each major Project structure and building, the transmission line towers and/ or poles, and fencing, specifying the color(s) and finish proposed for each. Colors must be identified by vendor, name, and pantone number, or according to a universal designation system;

- (c) One set of color brochures or color chips showing each proposed color and finish;
- (d) A specific schedule for completion of the treatment; and
- (e) A procedure to ensure proper treatment maintenance for the life of the Project. The Project owner shall not specify to the vendors the treatment of any buildings or structures treated during manufacture or perform the final treatment on any buildings or structures treated in the field until the Project owner receives notification of approval of the treatment plan by Riverside County and the BLM. Subsequent modifications to the treatment plan are prohibited without the County's and BLM's approval for components under their respective authorities; however, the Project owner may consider the agencies' failure to respond to a request for review within 60 days an acceptance of the proposal.
- **MM AES-2 Project Design.** The Project owner shall use proper design fundamentals to reduce the visual contrast to the characteristic landscape. These include proper siting and location; reduction of visibility; repetition of form, line, color, and texture of the landscape; and reduction of unnecessary disturbance. Design strategies to address these fundamentals shall be based on the following factors:
 - (a) Vegetation Manipulation: Retain as much of the existing vegetation as possible including along roadsides to intercept sightlines from public vantage points. Use existing vegetation to screen the development from public viewing and lessen the visibility of structural contrast and glare. Use scalloped, irregular, cleared edges to reduce line contrast. Use irregular clearing shapes to reduce form contrast. Feather and thin the edges of cleared areas and retain a representative mix of plant species and sizes.
 - (b) Structures: Minimize the number of structures and combine different activities in one structure. Use natural, self-weathering materials and chemical treatments on surfaces to reduce color contrast and the potential for reflectance (glare). Bury all or part of structures to the extent practical. Use natural-appearing forms to complement the characteristic landscape. Screen the structure from view by using natural landforms and vegetation. Reduce the line contrast created by straight edges.
 - (c) *Linear Alignments*: Use existing topography to hide induced changes associated with roads, lines, and other linear features. Select alignments that follow landscape contours. Avoid fall-line cuts. Hug vegetation lines.
 - (d) *Reclamation and Restoration*: Reduce the amount of disturbed area and blend the disturbed areas into the characteristic landscape. Where feasible, replace soil, brush, rocks, and natural debris over disturbed area. Newly introduced plant species should be of a form, color, and texture that blends with the landscape.
- MM AES<u>-</u>3 Night Lighting Management. To the extent feasible, consistent with safety and security considerations, the Project owner shall design and install all permanent exterior lighting and all temporary construction lighting such that: (a) lamps and reflectors are not visible from beyond the Project site, including any off-site security buffer areas; (b) lighting does not cause excessive reflected glare; (c) direct lighting does not illuminate the nighttime sky, except for required FAA aircraft safety lighting; (d) illumination of the Project and its immediate area is minimized; and (e) it complies with local policies and ordinances.

The Project owner shall also consult with the NPS Night Sky Program Manager in the development of the night lighting and comply with stricter standards for light intensity. All permanent light sources shall be below 3,500 Kelvin color temperature (warm white)

and shall have cutoff angles not to exceed 45 degrees of nadir. The use of LED lighting with a Correlated Color Temperature (CCT) above 2,700 would introduce blue light into the environment that would have negative impacts on the night skies, wildlife, and visitors, and increase light pollution in that area. If LED light bulbs are used, they shall have a CCT of 2,700 or less. All lights, temporary and permanent, are to be fully shielded such that the emission of light above the horizontal is prevented. Prior to construction, the Project owner shall submit to BLM, Riverside County, and NPS JTNP for review a Night Lighting Management Plan that shall include the following:

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- (a) Location and direction of light fixtures that take the lighting mitigation requirements into account;
- (b) Lighting that incorporates fixture hoods/shielding, with light directed downward or toward the area to be illuminated;
- (c) Light fixtures, which are visible from beyond the Project boundary, that have cutoff angles that are sufficient to prevent lamps and reflectors from being visible beyond the Project boundary, except where necessary for security;
- (d) All lighting that is of minimum necessary brightness consistent with operational safety and security;
- (e) Lights in high illumination areas not occupied on a continuous basis (such as maintenance platforms) that have (in addition to hoods) switches, timer switches, or motion detectors so that the lights operate only when the area is occupied;
- (f) Specification that LPS or amber LED lighting shall be emphasized, and that white lighting (metal halide) would: (a) only be used when necessitated by specific work tasks; (b) not be used for dusk-to-dawn lighting; and (c) would be less than 3500 Kelvin color temperature;
- (g) Specifications and mapping for of all lamp locations, orientations, and intensities, including security, roadway, and task lighting;
- (h) Specifications for each light fixture and each light shield;
- (i) Total estimated outdoor lighting footprint expressed as lumens or lumens per acre;
- (j) Specifications on the use of portable truck-mounted lighting;
- (k) Specifications for motion sensors and other controls to be used, especially for security lighting;
- Surface treatment specifications that shall be employed to minimize glare and skyglow;
- (m) Documentation that the necessary coordination with the NPS Night Sky Program Manager has occurred; and
- (n) Exterior lighting that complies with current Title 24 regulations from the State of California and that shall be coordinated with the California Department of Transportation (Caltrans) to comply with exterior lighting regulations along I-10 and SR-177.

3.3. Agriculture and Forestry Resources

This section evaluates the impacts on agriculture and forestry resources resulting from implementation of the proposed Project. The discussion provides an overview of existing conditions that influence agriculture and forestry, describes the applicable regulations, identifies the criteria used for determining the significance of environmental impacts, and describes the potential agriculture and forestry impacts of the proposed Project. An impact analysis and comparison of project alternatives is included in Section 5.

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3.3.1. Environmental Setting

The proposed Project is located on private and BLM-administered land in Riverside County north of Interstate 10 (I-10) and approximately 2 miles north of the town of Desert Center, California. Nearby land uses include previously developed or developing solar facilities, transmission lines, fallow and active agriculture, and rural residences. Agriculture use within the Project site primarily includes fallow/retired agriculture and developed areas. As far as can be determined, a tilapia farming facility is currently the only active agricultural use. There are no forestry resources on site or in the surrounding area.

Agriculture, including jojoba farming, has been part of life in the Desert Center area. The proposed Project area would be located within the Desert Center Area Plan <u>on lands designated as Open Space Rural and Agriculture. The parcels in the Project area are</u> zoned as Agriculture; Commercial Retail, Rural Desert; Open Space, Rural; and Rural Desert. There are approximately 190 acres of agriculturally zoned land in the Project site, <u>including 8 parcels under WA contract that are designated as Agriculture in the DCAP</u>. <u>These parcels were used for agriculture in the 1980s; however, they have been out of agricultural use since then and are not currently used for agriculture</u>. The nearest community is Lake Tamarisk, located less than 1 mile southwest of the Project site.

The Project would include an approximate 6.7-mile 500 kV gen-tie line starting at the onsite substation and switchyard located on private property that is under a Williamson Act contract and zoned as Light Agriculture (A-1) (APN 808-023-018). On this same parcel, north of the substation, would be a battery energy storage system (BESS). Just south of the substation, the 500 kV gen-tie line would enter the Oberon Renewable Energy Project site and would be located on BLM-administered land for the remainder of the route.

U.S. Bureau of Land Management

Approximately two-thirds of the Easley Project would be located on BLM-administered land within the California Desert Conservation Area (CDCA) plan area. The Desert Renewable Energy Conservation Plan (DRECP) Land Use Plan Amendment (LUPA) amended the CDCA and is a collaborative, interagency landscape-scale planning effort and program covering 22.5 million acres in seven California counties— Imperial, Inyo, Kern, Los Angeles, Riverside, San Bernardino, and San Diego. The DRECP LUPA applies to nearly 10.8 million acres of BLM-managed federal lands within the aforementioned seven California counties. The portion of the Project that would be located on BLM land is designated as a Development Focus Area targeted for renewable energy development. Part of the vision for the DRECP is to facilitate the timely and streamlined permitting of renewable energy projects (BLM, 2016). Because the proposed Project is partially located on federal land under management of BLM, BLM is the lead agency under the National Environmental Policy Act (NEPA), 42 U.S.C. section 4321 et seq. Much of the land surrounding the Project area is part of the DRECP.

California Department of Conservation

The California Department of Conservation established the Farmland Mapping and Monitoring Program (FMMP) in 1982 to identify important agricultural lands and track the conversion of agricultural land to

other uses (see Table 3.3-1 for the most recent Riverside County conversion data). FMMP data are used in elements of some county and city general plans, in regional studies on agricultural land conversion, and in environmental documents as a way of assessing proposed Project-specific impacts on Prime Farmland. The extent of the important farmland coverage within California corresponds to the availability of Natural Resources Conservation Service (NRCS) "modern soil surveys."

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In areas where no NRCS soil survey data exists, the DOC FMMP is not able to classify or map the land for important farmlands. The Project area is identified on the important farmland maps with the label "Not mapped for important farmland; no NRCS soil survey data available." The Project area in Riverside County does not have modern NRCS soil survey data available; therefore, the FMMP categories are not applicable to this Project.

Riverside County

Agriculture is an important part of Riverside County's economy. According to the Annual Riverside County Agricultural Production Report (2021), agriculture accounted for an estimated total gross value of \$1,405,910,000. The primary agricultural products from Riverside County in 2021 were, in order, as follows: nursery stock, milk, table grapes, dates, avocados, alfalfa, eggs, lemons, bell peppers, and turf grass (Riverside County, 2021a).

The most recent agricultural land conversion data available for Riverside County is for the period between 2014<u>6</u> and 201<u>86</u>. Land converted in this period is show<u>n</u> below in Table 3.3-1.

	Total Acreage	Total Acreage Inventoried		2014-<u>2016</u> to 2016-<u>2018</u> Acreage Changes			
Land use category	201 4 <u>2016</u>	2016 2018	Acres Lost (-)	Acres Gained (+)	Total Acreage Changed	Net Acreage Changed	
Prime Farmland	118,077 <u>117,486</u>	117,484 <u>116,926</u>	2,41 4 <u>2,204</u>	1,821 <u>1,644</u>	4 ,235 <u>3,848</u>	-5 <u>60</u> 93	
Farmland of Statewide Importance	44 ,002	43,757 43,610	991 <u>629</u>	746 <u>482</u>	1,737 <u>1,111</u>	- <u>147</u> 245	
Unique Farmland	32,5 <u>6682</u>	32, <u>121</u> 565	1, <u>206</u> 570	1,553<u>761</u>	3,123<u>1,967</u>	- <u>445</u> 17	
Farmland of Local Importance	228,809 226,029	226,029 221,201	6,598	3,818 <u>3,053</u>	10, <u>934</u> 4 16	- <u>4,828</u>	
Grazing Land	110, <u>2</u> 402	1 <u>09,857</u> 10, 203	386 456	4 87<u>111</u>	873<u>567</u>	- <u>345</u> 101	
AGRICULTURAL LAND SUBTOTAL	5 5 3 <u>0,040</u> 572	530,038 523,715	11,959 <u>12,376</u>	8,425 <u>6,051</u>	20,38 4 <u>18,427</u>	- <u>6,325</u>	

Table 3.31.	Riverside County	Agricultural Land Conversion	n 20164 to 20186
	Inverside county	- Shearcarar Earla Conversion	

Source: California Department of Conservation, 202416

As described in the table above, for the two-year period from 2014-2016 to 20162018, Riverside County had a decrease of 3,5346,325 acres in the total amount of active agricultural land mapped by the Farmland Mapping and Monitoring Program (FMMP). For comparison, during the 2012-2014 to 2014-2016 period, Riverside County had a net decrease in agricultural land of approximately 3,0473,534 acres (California Department of Conservation, 20142016).

The decrease in acres between 2014 to 2016 included a decrease of <u>3,6355,980</u> acres of Important Farmland (including Prime Farmland, Farmland of Statewide Importance, Unique Farmland, and Farmland of Local Importance) and an increase of 101a decrease of <u>345</u> acres of Grazing Land. The largest decrease was in <u>Prime</u>-Farmland <u>of Local Importance</u>, with <u>4,828593</u> acres converted to nonagricultural uses (California Department of Conservation, 2016<u>2024</u>).

The California Land Conservation Act of 1965 (referred to as the Williamson Act) allows counties such as Riverside to enter into contracts with private landowners for the purpose of restricting specific parcels of land to agricultural or related open space use in return for a reduction in assessed property taxes (California Department of Conservation, 2023). Table 3.3-2 shows the parcels on the Project site enrolled under Williamson Act Contracts (see also Figure 3.3-1).

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Owner	APN	Size (acres)	Instrument No.	Preserve No.	Map No.	Contract Length (as of 2023)
JMP Inc., a Nevada Corporation	808-023-018	68.09	84-42184	1	588	39 years
Spindle Top Bayou Farm, Inc.	811-270-001	20.09	87-64243	3	629	36 years
	811-270-002	20.08	87-64243	3	629	36 years
	811-270-007	32.18	87-64243	3	629	36 years
	811-270-005	19.71	87-64243	3	629	36 years
	811-270-003	19.72	87-64243	3	629	36 years
	811-270-004	19.99	87-64243	3	629	36 years
Todd Culver Draskovich John Steven Draskovich *	808-240-007	20.02	87-64239	2	622	36 years

Table 3.3-2. Easley Project Parcels with Williamson Act Contracts

* A Williamson Act contract non-renewal was filed for APN 808-240-007 in 2013, which resulted in cancellation on January 1, 2023. The final step for contract cancellation will be to complete the County's diminishment/disestablishment process.

The co-owners of several private parcels within and surrounding the Project site entered into a private covenant in 1981 regarding an agreement to produce only jojoba uses on their properties, and to avoid any activities that would impair or restrict jojoba production. <u>Currently, there are no jojoba plantings on these private parcels.</u> It appears that there have been no jojoba or other agricultural uses on these parcels for many years. The new property owner, IP Easley, LLC, has proposed an amendment to the covenant which would allow solar photovoltaic facility development on the parcels. Like the original covenant, the amended covenant would not be subject to any permit approval or discretionary action by any public/ government entity. Therefore, the provisions of CEQA are not applicable and there is not a related environmental impact.

3.3.2. Regulatory Framework

3.3.2.1. Federal Laws, Regulations, and Policies

Federal Farmland Protection Policy Act. The Farmland Protection Policy Act (7 U.S. Code [USC] Section 4201 et seq.; see also 7 Code of Federal Regulations [CFR] part 658) is overseen by the U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS). The Farmland Protection Policy Act is intended to "minimize the extent to which federal programs contribute to the unnecessary conversion of farmland to nonagricultural uses." The Act applies to projects and programs that are sponsored or financed in whole or in part by the federal government.

3.3.2.2. State Laws, Regulations, and Policies

Land Conservation Act of 1965 (Williamson Act). The Williamson Act is intended to help preserve farmland. In creating the Act, the legislature noted that "the preservation of the maximum amount of the limited supply of agricultural land is necessary to the conservation of the State's economic resources, and is necessary not only to the maintenance of the agricultural economy of the State, but also for the assurance of adequate, healthful and nutritious food for future residents of this State and nation" (Government

Code Section 51220). The Act enables participating local governments, such as Riverside County, to enter land conservation contracts with private landowners. Williamson Act contracts restrict specific parcels of land to agricultural and open space uses for a minimum term of ten years in return for reduced property tax assessments. The Williamson Act program is locally administered by counties (and some cities) to ensure compliance with the Williamson Act (Government Code Sections 51200–51207), local uniform rules, and individual contracts.

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The DOC provides guidance and oversight to local governments to ensure consistency with the government code. Starting in 1972, the State provided counties with partial replacement of foregone local property tax revenues (Open Space Subvention Act). These subvention payments were suspended in 2009 due to State-level budget constraints.

3.3.2.3. Local Laws, Regulations, and Policies

Riverside County General Plan. The intent of the Agricultural Resources section of the Land Use Element of the Riverside County General Plan is to identify and preserve areas where agricultural uses are the long-term desirable use and to minimize the conflicts between agricultural and urban/suburban uses. The following policies included in the Land Use Element generally relate to the proposed Project with respect to agricultural resources (Riverside County, 2021b).

- Policy LU 7.1. Require land uses to develop in accordance with the General Plan and area plans to ensure compatibility and minimize impacts.
- Policy LU 7.4. Retain and enhance the integrity of existing residential, employment, agricultural, and open space areas by protecting them from encroachment of land uses that would result in impacts from noise, noxious fumes, glare, shadowing, and traffic.
- Policy LU 7.5. Require buffering to the extent possible between urban uses and adjacent rural/equestrian oriented land uses.
- Policy LU 20.1. Encourage retaining agriculturally designated lands where agricultural activity can be sustained at an operational scale, where it accommodates lifestyle choice, and in locations where impacts to and from potentially incompatible uses, such as residential uses, are minimized, through incentives such as tax credits.
- Policy LU 20.2. Protect agricultural uses, including those with industrial characteristics (dairies, poultry, hog farms, etc.) by discouraging inappropriate land division in the immediate proximity and allowing only uses and intensities that are compatible with agricultural uses.
- Policy LU 20.4. Encourage conservation of productive agricultural lands. Preserve prime agricultural lands for high-value crop production. Note that this policy is also replicated in the County's Multipurpose Open Space Element (see Policy OS 7.3 below).
- Policy LU 20.5. Continue to participate in the California Land Conservation Act (the Williamson Act) of 1965.

The intent of the Agriculture section of the Multipurpose Open Space Element of the Riverside County General Plan regarding agricultural use is to protect agricultural lands and landscapes as historical, cultural, and scenic resources. The following policy included in the Multipurpose Open Space Element generally relates to the proposed Project with respect to agricultural resources (Riverside County, 2015).

 Policy OS 7.3. Encourage conservation of productive agricultural lands and preservation of prime agricultural lands.

Desert Center Area Plan. The intent of the Land Use section of the Desert Center Area Plan is to enhance and/or preserve the identity, character, and features unique to the Desert Center area. The following

policy included in the Desert Center Area Plan generally relates to the proposed Project with respect to agricultural resources (Riverside County, 2021c).

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Policy DCAP 3.1. Protect farmland and agricultural resources in Desert Center through adherence to the Agricultural Resources section of the General Plan Multipurpose Open Space Element and the Agriculture section of the General Plan Land Use Element, as well as the provisions of the agriculture land use designation.

Riverside County Agricultural Preserve Ordinance – Ordinance No. 509. The Riverside County Agricultural Preserve Ordinance provides for the administration of lands placed in agricultural preserves, including procedures for initiating, filing, and processing requests to establish, enlarge, disestablish, or diminish agricultural preserves, pursuant to the California Land Conservation Act.

Riverside County Ordinance No. 348.4705. Zoning ordinance 348.4705 permits a solar power plant in several districts, including agricultural districts, with a use permit. Ordinance No. 348.4705 was enacted at the same time as and implements General Plan Policy LU 15.15, which states: "Permit and encourage, in an environmentally and fiscally responsible manner, the development of renewable energy resources and related infrastructure, including but not limited to, the development of solar power plants in the County of Riverside." This ordinance is consistent with Riverside County's participation in the DRECP.

Riverside County Ordinance No. 625, the "Right to Farm" Ordinance. Ordinance No. 625 factors into Riverside County's standard significance thresholds. It was enacted to conserve, protect, and encourage the development, improvement, and continued viability of agricultural land. The intent of the ordinance is to reduce the loss to the County of its agricultural resources by limiting the circumstances under which agricultural operations may be deemed to constitute a nuisance. Nothing in the ordinance is to be construed to limit the right of any owner of real property to request that the county consider a change in the zoning classification.

The proposed Project would install solar renewable energy facilities on some parcels that allow agriculture as well as renewable energy projects. The parcels are surrounded by federal land administered by BLM that have been designated for development of solar energy projects. Given that the land surrounding these parcels is designated for solar projects and that solar facilities are an allowed use on the County parcels, the proposed Project would not be inconsistent with the policies enumerated above.

3.3.3. Methodology for Analysis

The analysis focuses on the potential for implementation of the proposed Project to adversely affect agricultural resources through temporary disruption or disturbance of agricultural land uses and activities during construction, conversion of agricultural land to non-agricultural land uses during construction and operation, introduction of incompatible land uses or land use activities during operation, or through other changes to the physical environment that could result in loss or conversion of agricultural lands during construction and operation.

The approach is based largely on a comparison of the Project area, which is defined as the area within which all construction-related disturbance would occur, against Important Farmland as mapped in FMMP Important Farmland Series Maps, maps of Williamson Act contracts, and Riverside County General Plan Land Use designation and zoning maps. Existing agricultural uses within the Project area were also considered.

3.3.4. CEQA Significance Criteria

The criteria used to determine the significance of potential Agriculture and Forestry impacts are based on Appendix G of the State CEQA Guidelines. The proposed Project would result in a significant impact under CEQA related to Agriculture and Forestry if the Project would:

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• Conflict with existing zoning for agricultural use, or a Williamson Act contract (see Impact AG-1).

The County of Riverside's Environmental Assessment Form includes additional significance criteria, which were also used in the analysis. The additional criteria indicate that a project could have potentially significant impacts if it would:

- Cause development of non-agricultural uses within 300 feet of agriculturally zoned property (Ordinance No. 625, "Right-to-Farm") (see Impact AG-2).
- Conflict with land within a Riverside County Agricultural Preserve (see Impact AG-3).

The following CEQA significance criteria from Appendix G were not included in the analysis and are not discussed beyond this summary:

Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use.

The Project area is not designated under the California Department of Conservation (DOC) FMMP due to the lack of modern soil survey data for the area. There are no lands designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland) in the Project area; therefore, the proposed Project would not result in the conversion of the aforementioned Farmland to non-agricultural use.

Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to nonagricultural use or conversion of forest land to non-forest use.

The Project area is not designated under the California Department of Conservation (DOC) FMMP. There are no lands designated as Farmland (i.e., Prime Farmland, Unique Farmland, or Farmland of Statewide Importance) in the Project area; therefore, the proposed Project would not result in the conversion of Farmland to non-agricultural use.

As there are no forestry resources on site or in the surrounding area, there would be no conversion of forest land to non-forest use.

Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g)).

There are no forest lands or timberlands in the Project area; therefore, the proposed Project would not conflict with existing zoning for, or cause rezoning of, forest land, timberland, or timberland zoned Timberland Production.

Result in the loss of forest land or conversion of forest land to non-forest use.

The proposed Project would not be located on land zoned specifically as either forest land or timberland. The Project would be located primarily on land zoned for agricultural production and as rural open space land. The Project would not be used for timber production, nor is the site forested. In addition, the Project area is not considered timberland because the land is not located in a Timberland Production Zone. Overall, the Project does not meet the definition of "forest land"¹² and the proposed Project would not result in the loss of forest land or conversion of forest land to non-forest use.

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3.3.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department did not reveal public concerns related to Agriculture and Forestry. Project decommissioning impacts would be the same as those described under Project construction and are, therefore, not addressed further.

Impact AG-1. The Project would conflict with existing zoning for agricultural use, a Williamson Act contract, or land within an agricultural preserve.

SIGNIFICANT AND UNAVOIDABLELESS THAN SIGNIFICANT. The proposed Project would be constructed on approximately 220 acres of land zoned as Light Agriculture (A-1). Under Ordinance No. 348.4705, solar power plants are permitted in zone A-1 land on a lot 10 acres or larger, provided a conditional use permit is granted. All A-1 parcels that are part of the Project area are greater than 10 acres. Therefore, the Project would not conflict with existing zoning for agricultural use.

As shown on Figure 3.3-1, the parcels within the Project site that are subject to a Williamson Act contract and related agricultural preserve program total approximately 220 acres of land (8 parcels). After an agricultural preserve has been established, the land within the preserve is restricted to the agricultural and compatible uses specified in Riverside County Ordinance 509. Williamson Act contracts are in effect for 10 years from the anniversary date of the contract. The contracts are automatically renewed for another year each year until a non-renewal and/or cancellation notice is submitted to the County. After a Notice of Nonrenewal, the contract will continue to be in effect for the remaining nine years. Nonrenewals for the parcels subject to Williamson Act contracts were submitted on September 9, 2022, and processed on October 4 and 5, 2022.

The proposed gen-tie line would start at a substation located on private land that is designated by Riverside County as Light Agriculture (A-1) and is currently subject to a Williamson Act contract. The BESS and switchyard would be located on the same parcel. During construction, the substation area would be graded and compacted to an approximately level surface, although the substation pad may be elevated a few feet pending detailed hydrological study of the area. Concrete pads would be constructed on site as foundations for substation equipment, and the remaining area would be graveled to a maximum depth of approximately 12 inches. The substation would be surrounded by an up to a 7-foot-high chain-link fence topped with one foot of barbed wire. Each of the dead-end structures would require foundations excavated to a depth of 20 feet or more. From the substation, the gen-tie would continue to traverse through BLM-administered land not zoned for agricultural uses. The energy storage facility must be nearly level; therefore, the proposed BESS area would be cleared and graded. Site preparation also would include construction of drainage components to capture and direct stormwater flow around the BESS facility. Once the concrete foundations are in place for the BESS, the batteries, inverters, and other electrical equipment would be mounted and installed.

<u>Project development would conflict with the Williamson Act contracts recorded against parcels within the</u> <u>Project site and with the inclusion of those parcels in the agricultural preserves within which they currently</u> <u>reside.</u> here is no feasible way to mitigate or modify the Project to avoid the conflict with the Williamson Act contracts and meet the Project objectives. Given the status of the contracts, the parcels are subject to Williamson Act restrictions for <u>approximately</u> nine more years. The proposed Project is not an allowable

¹² According to PRC § 12220 (g), Forest Land is land that can support 10-percent native tree cover of any species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public benefits.

use under the <u>County's agricultural preserve rules or</u> Williamson Act <u>contracts program and</u>, <u>and</u> therefore, its construction and operation on lands would be a significant and unavoidable-impact withon lands in an agricultural preserve and <u>underrelated</u> Williamson Act contract, <u>unless the relevant contracts are</u> <u>canceled and lands within the Project site removed from County Agricultural Preserves</u>, as requested by <u>the Project applicant</u>. Cancellation of the-Williamson Act contracts and removal of project lands from <u>County Agricultural preserves</u> would be required prior to<u>must occur prior to approval of the conditional</u> <u>use permit for the Project Project development</u>, thereby resolving any agricultural preserve- or Williamson <u>Act-related conflicts</u>.

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To eliminate the conflict, the Williamson Act contracts will need to be cancelled per statutory findings the Riverside County Board of Supervisors makes,¹³ or it must be determined that the Project is compatible under Ordinance 509. If the Williamson Act contracts are cancelled and lands within the Project site are removed from County Agricultural Preserves at the time of the EIR certificationProject approval and prior to the start of construction activities, this impact would be avoided.

Mitigation Measures for Impact AG-1

No feasible mitigation would reduce this impact to a less than significant level. No mitigation measures are required.

Significance After Mitigation

Th<u>is potentially significant impact would be avoided through e impact would be significant and unavoid-able; however, cancellation of the Williamson Act contracts and removal of lands within the Project site from County agricultural preserves, as requested by the Project applicant. Impacts would be less than significant. would avoid this impact.</u>

Impact AG-2. The Project would cause development of non-agricultural uses within 300 feet of agriculturally zoned property (Ordinance No. 625, "Right-to-Farm").

LESS THAN SIGNIFICANT. The proposed Project is adjacent to several parcels that are zoned as Light Agriculture (A-1). One of these parcels is adjacent to parcel APN 808-023-018, where the substation, switching yard, BESS, and a portion of the gen-tie line would traverse. There is an additional parcel zoned as Open Space, Rural (OS-RUR).

- (1) The cancellation is for land on which a notice of nonrenewal has been served;
- (2) Cancellation is not likely to result in the removal of adjacent lands from agricultural use;
- (3) Cancellation is for an alternative use which is consistent with the applicable provisions of the city or county general plan;
- (4) Cancellation will not result in discontiguous patterns of urban development; and
- (5) There is no proximate noncontracted land which is both available and suitable for the use to which it is proposed the contracted land be put, or, that development of the contracted land would provide more contiguous patterns of urban development than development of proximate noncontracted land.

Alternatively, the Board of Supervisors could find that the cancellation is in the public interest based on the following findings: (1) Other public concerns substantially outweigh the objectives of the Williamson Act; and

(2) That there is no proximate noncontracted land which is both available and suitable for the use to which it is proposed the contracted land be put, or that development of the contracted land would provide more contiguous patterns of urban development than development of proximate noncontracted land.

The Board may grant tentative approval for cancellation of a Williamson Act contract only if it makes either the Consistency or the Public Interest findings.

¹³ The statutory findings required for a Williamson Act Contract cancellation are listed in California Government Code Section 51282. To cancel the contract, the Board of Supervisors must make one of two findings. First, the Board could conclude that the cancellation is consistent with the purposes of the Williamson Act based on the following findings:

The proposed Project would not result in the conversion of adjacent farmland properties to non-agricultural use during the Project's minimum 35-year existence. The proposed Project would not introduce a non-agricultural use that is incompatible with agricultural operations that would occur nearby.

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Section 5 of Ordinance No. 625 states "[n]o agricultural activity, operation, or facility, or appurtenances thereof, conducted or maintained for commercial purposes, and in a manner consistent with proper and accepted customs and standards, as established and followed by similar agricultural operations in the same locality, shall be or become a nuisance, private or public, due to any changed condition in or about the locality, after the same has been in operation for more than three (3) years if it was not a nuisance at the time it began."

Vehicle emissions can affect the health and survival of crops; however, increased vehicle emissions from Project construction and decommissioning would be temporary in duration and occur only during these activities (Please refer to Section 3.4, Air Quality, for a detailed discussion regarding vehicle emissions). They would not be of significant duration, with no resulting significant impact on the life cycle of plants in the area.

Mass grading would not be conducted on the Project site. Several solar and storage facility locations would require specific ground treatments, but this represents a small percentage of the ground surface of the facility. The substation, storage container, O&M facility, laydown yards, pre-fabrication areas, and internal and external road locations would require mowing, grubbing, minor grading, and compaction. Best management practices identified in the Project's Fugitive Dust Control Plan would be implemented during all earthwork and vegetation removal activities to ensure that dust would not become a nuisance during construction or operation on the proposed site or at the surrounding sites.

The proposed Project would not interfere with neighboring agricultural operations by, for example, restricting aerial application of pesticides. Therefore, the proposed Project would result in less-than-significant impacts involving other changes in the existing environment.

The substation, BESS, switchyard, and gen-tie line would be located on parcel APN 808-023-018, which is 70 acres of land zoned as AG-1.- This single private property would not be a nuisance to the single adjacent parcel zoned for Light Agriculture.

The potential for impacts to surrounding agricultural lands and the methods to reduce impacts to these lands with regards to dust and weed migration would be the similar for the substation, switchyard, BESS, and gen-tie line as for the solar facility. The effects on the neighboring agriculturally zoned property would be less than significant.

Mitigation Measures for Impact AG-2

No mitigation would be required.

Significance After Mitigation

The impact would be less than significant.

Impact AG-3. The Project would conflict with land within a Riverside County Agricultural Preserve.

LESS THAN SIGNIFICANT. SIGNIFICANT AND UNAVOIDABLE. When a Williamson Act contract is enacted, the land in the contract is established as an agricultural preserve or annexed into an existing preserve. The Williamson Act contract lands within the Project area comprise Riverside County agricultural preserves Chuckwalla No. 3 Map No. 629, Chuckwalla No. 3 Map No. 622, and Chuckwalla No. 3 Map No. 588. See Impact AG-1 for discussion of impacts from the Project on land within an agricultural preserve.

A portion of the Project area with solar facilities, substation, switchyard, BESS, and the gen-tie line occur within a Riverside County Agricultural Preserve under the Williamson Act, which is incompatible with the Project.; therefore, this conflict with an agricultural preserve would be significant and unavoidable. There is no feasible way to mitigate or modify the Project to avoid the conflict with land within a Riverside County Agricultural Preserve and meet the Project objectives. However, if the Williamson Act contracts are canceled prior to EIR certification, this impact would be avoided. The proposed Project is not an allowable use under the County's agricultural preserve rules or Williamson Act contracts and therefore, its construction and operation on lands would be a significant impact on lands in an agricultural preserve and under Williamson Act contract, unless the relevant contracts are canceled and lands within the Project site removed from County Agricultural Preserves, as requested by the Project Applicant. Cancellation of Williamson Act contracts and removal of Project lands from County Agricultural Preserves would be required prior to Project development, thereby resolving any agricultural preserve- or Williamson Act-related conflicts.

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Mitigation Measures for Impact AG-3

No feasible mitigation would reduce this impact to a less than significant level. No mitigation would be required.

Significance After Mitigation

The impact would be significant and unavoidable; however, cancellation of the Williamson Act contracts would eliminate the significant impact. This potentially significant impact would be avoided through cancellation of the Williamson Act contracts and removal of lands within the Project site from County agricultural preserves, as requested by the Project applicant. Impacts would be less than significant.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.3.6. Cumulative Impacts

Geographic Scope

Agricultural cumulative impacts include the proposed Project's impacts as well as those likely to occur as a result of other existing, proposed, and reasonably foreseeable projects. The geographic extent for the consideration of cumulative effects to agricultural and forestry resources is the Desert Center area. This geographic area was selected because most of the parcels in the Project area, and the Desert Center area as a whole, have been previously disturbed, are currently or were previously used for agriculture, and because the pressure that a change in use may exert on agricultural operations is likely to manifest as a localized compatibility issue.

Cumulative Impact Analysis

Tables 3.1-1 and 3.1-2 include the list of existing and reasonably foreseeable projects in the region. Figure 3.1-1 shows the locations of these projects. The Athos Renewable Energy Project and Sapphire Solar Project are partially located on private disturbed agricultural land near the proposed Project and could affect agricultural resources. The other listed solar projects are located on BLM-administered public land.

Continuing development within Riverside County has resulted in the conversion of land currently utilized for agricultural production to urban and other land uses. This agricultural conversion has been a continuing trend in the County and has resulted in a net loss of 3,5346,325 acres of agricultural land between 2014-2016 and 2016-2018 (see Table 3.3-1). Impacts resulting from construction, operation, maintenance,

and decommissioning of the proposed Project could contribute to a cumulative effect on agriculture with other past, present, or reasonably foreseeable future actions.

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Implementation of the proposed Project, in combination with other projects in the Desert Center area, could include land zoned for agricultural uses that would be utilized for non-agricultural uses or would cause development of non-agricultural uses within 300 feet of agriculturally zoned property. However, with the issuance of a conditional use permit, developments under the cumulative scenario constitute allowed uses within Agricultural zones that have been found to be consistent with zoning.

The cancellation of the Williamson Act contracts and removal of lands within the project site from County agricultural preserves would release these lands from the status of agricultural preservealleviate any potential conflicts between proposed project uses of land and Williamson Act or County Agricultural Preserve requirements. The proposed Project would not involve other changes in the existing environment that may result in the conversion of other agricultural lands to non-agricultural uses. Further, because Project parcels zoned for agricultural use have not actually been used for agricultural purposes for many years, the Project also would not result in any change in current use from agriculture to non-agricultural uses. In addition, there are no forest lands or timber resources in the Project area.

Neither the proposed Project nor the cumulative projects would convert any designated Farmland to nonagricultural uses. After the Project and surrounding cumulative projects are decommissioned, the sites would be available to be returned to agricultural uses.

As shown in Figure 3.1-1, many of the current and reasonably foreseeable projects are in land identified as Development Focus Areas (DFAs) under the DRECP. Acknowledging that the overall trend for development of solar projects in the Desert Center area could lead to cumulative impacts on agriculture, the region has been designated a DRECP DFA. The overall potential for DFA designation resulting in cumulative impacts to agriculture has been addressed in the DRECP Final EIS/EIR under *Impact AG-1: Renewable energy development on BLM lands and resulting transmission lines would impair agricultural use of adjacent agricultural operations* (BLM, 2015). As noted in the DRECP Final EIS, cCurrent agricultural uses cwould be impaired by new renewable energy developments with related transmission lines. However, the impairment or potential loss of farmland would not be a significant cumulative impact because the Desert Center region is not classified under recognized agricultural land evaluation approaches such as the DOC FMMP's Important Farmland Map series. Further, active agriculture in the Desert Center area is already quite limited due to reductions in agriculture that have occurred over the last several decades.

Overall, the proposed Project's impacts combined with those of nearby projects would not result in a new cumulatively significant impact on agricultural resources. The proposed Project would not make a considerable contribution to cumulative impacts on agricultural resources.

Mitigation Measures for Cumulative Impacts

No mitigation would be required.

Significance After Mitigation

The cumulative impact would be less than significant. <u>The Project's incremental contribution to agricul-</u> <u>ture and forestry impacts would not be cumulatively considerable.</u>

3.3.7. Mitigation Measures

No feasible-mitigation is proposed required. Impacts AG-1 and AG-3 would be significant and unavoidable; however, cCancellation of the Williamson Act contracts would eliminate all potentially significant impacts to agricultural resources.

3.4. Air Quality

This section describes the environmental setting and regulatory framework with respect to air quality for the proposed Project, including applicable plans, policies, and regulations. The analysis describes the Project's sources of air pollutant emissions during construction and operation and the localized effects of those emissions. An impact analysis of project alternatives is included in Section 5.

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3.4.1. Environmental Setting

3.4.1.1. Ambient Air Quality Standards and Attainment

Criteria Air Pollutants. Air quality is determined by measuring ambient concentrations of certain criteria air pollutants. The criteria pollutants are ozone, respirable particulate matter (PM10), fine particulate matter (PM2.5), carbon monoxide (CO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), and lead. Ozone is an example of a secondary pollutant that is not emitted directly from a source (e.g., an automobile tailpipe), but it is formed in the atmosphere by chemical and photochemical reactions. Reactive organic gases (ROG), including volatile organic compounds (VOC), are regulated as precursors to ozone formation.

The California Air Resources Board (ARB) and the U.S. Environmental Protection Agency (U.S. EPA) have independent authority to develop and establish health-protective ambient air quality standards. The California air quality standards are set at levels to adequately protect the health of the public, including infants and children, with an adequate margin of safety (California Health and Safety Code Section 39606), and in general, the CAAQS are more stringent than the corresponding health-protective NAAQS.

Monitored levels of the pollutants are compared to the current National and California Ambient Air Quality Standards (NAAQS and CAAQS) to determine degree of existing air quality degradation. The standards currently in effect in California are shown in Table 3.4-1.

Pollutant Averaging Time		California Standards	National Standards	
Ozone	1-hour	0.09 ppm	_	
	8-hour	0.070 ppm	0.070 ppm	
Respirable Particulate Matter	24-hour	50 μg/m³	150 μg/m³	
(PM ₁₀)	Annual Mean	20 µg/m³	—	
Fine Particulate Matter (PM _{2.5})	24-hour	_	35 μg/m³	
	Annual Mean	12 μg/m³	12 μg/m³	
Carbon Monoxide (CO)	1-hour	20 ppm	35 ppm	
	8-hour	9.0 ppm	9.0 ppm	
Nitrogen Dioxide (NO2)	1-hour	0.18 ppm	0.100 ppm	
	Annual Mean	0.030 ppm	0.053 ppm	
Sulfur Dioxide (SO ₂)	1-hour	0.25 ppm	0.075 ppm	
	24-hour	0.04 ppm	0.14 ppm	
	Annual Mean	—	0.030 ppm	

Table 3.4-1. National and California Ambient Air Quality Standards

Notes: ppm=parts per million; μ g/m3= micrograms per cubic meter; "—" =no standard

Source: ARB (https://ww2.arb.ca.gov/resources/documents/ambient-air-quality-standards), May 2016.

Ambient Air Quality Attainment Status and Air Quality Plans. The U.S. EPA, ARB, and the local air district classify an area as attainment, unclassified, or nonattainment for each of the criteria air pollutants, and these designations dictate the air quality management planning activities needed to make future air pollutant reductions. The classification depends on whether the monitored ambient air quality data show compliance, insufficient data available, or non-compliance with the ambient air quality standards, respectively.

Table 3.4-2 summarizes attainment status for criteria pollutants in comparison with both the state and federal standards, for the Mojave Desert Air Basin portion of eastern Riverside County.

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Pollutant	California Designation	Federal Designation		
Ozone	Nonattainment	Attainment		
PM10	Nonattainment	Attainment		
PM2.5	Attainment	Attainment		
NO ₂	Attainment	Attainment		
со	Attainment	Attainment		
SO2	Attainment Attainment			

Table 3.4-2.	Attainment Status for Mojave Desert Air Basin Portion of Riverside County
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Source: ARB, 2022; USEPA, 2022.

The nonattainment designations for the Mojave Desert Air Basin portion of eastern Riverside County indicate that the proposed Project area experiences the adverse human health effects of exposure to criteria air pollutants. Because the CAAQS are set at levels to adequately protect the health of the public, and air quality management agencies have determined that concentrations of ozone and PM10 for the proposed Project area occur at nonattainment levels for the CAAQS, adverse health effects associated with exposure to ozone and PM10 occur as part of the baseline and existing ambient air quality conditions. The following information summarizes the adverse health effects of the criteria air pollutants.

Ozone. Ozone is not directly emitted from stationary or mobile sources but is formed as the result of chemical reactions in the atmosphere between directly emitted NOx and VOCs in the presence of sunlight. Pollutant transport from the Los Angeles area of the South Coast Air Basin is one source of the pollution across Riverside County. High ozone concentrations can aggravate respiratory and cardio-vascular diseases, irritate eyes, impair cardiopulmonary function, and cause damage to vegetation.

Particulate Matter (PM10) and Fine Particulate Matter (PM2.5). PM10 can be emitted directly or it can be formed many miles downwind from emission sources when various precursor pollutants interact in the atmosphere. PM2.5 is derived mainly either from the combustion of materials, or from precursor gases (SOx, NOx, and VOC) through complex reactions in the atmosphere. PM2.5 consists mostly of sulfates, nitrates, ammonium, elemental carbon, and a small portion of organic and inorganic compounds. In the Salton Sea and Mojave Desert Air Basins, most ambient particulate matter is due to fugitive dust, such as vehicle travel on unpaved roads, agricultural operations, or wind-blown dust. Particulate matter can aggravate respiratory diseases, result in reduced lung function, increase and cause chest discomfort, and cause reduced visibility.

Carbon Monoxide (CO). The highest concentrations of CO occur when low wind speeds and a stable atmosphere trap the pollution emitted at or near ground level. These conditions occur frequently in the wintertime late in the afternoon, persist during the night and may extend one or two hours after sunrise. In the Project area, CO concentrations are well below the state and federal ambient air quality standards. CO reduces tolerance from exercise, can cause impairment of mental function, impairment of fetal development, aggravate some heart diseases (angina), and cause death at high levels of exposure.

Nitrogen Dioxide. Approximately 90 percent of the NOx emitted from combustion sources is nitric oxide (NO), while the balance is NO₂. NO is oxidized in the atmosphere to NO₂, but some level of photochemical activity is needed for this conversion. The highest concentrations of NO₂ typically occur during the fall. The winter atmospheric conditions can trap emissions near the ground level, but lacking substantial photochemical activity (sunlight), NO₂ levels are relatively low. In the summer, the conversion rates of NO to NO₂ are high, but the relatively high temperatures and windy conditions disperse pollutants, preventing the accumulation of NO₂. The NO₂ concentrations in the Project area are well below the state and federal

ambient air quality standards. NO₂ can aggravate respiratory diseases, reduce visibility, reduce plant growth, and form acid rain.

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Sulfur Dioxide. Sulfur dioxide is typically emitted as a result of the combustion of a fuel containing sulfur. Overall SO₂ emissions are limited due to the limited number of major stationary sources and the regulatory limits on motor vehicle fuel sulfur content. The SO₂ concentrations in the Project area are well below the state and federal ambient air quality standards. SO₂ can irritate the upper respiratory tract and be injurious to lung tissue causing reduced lung function, including asthma and emphysema. SO₂ can cause plant leaves to be yellow, and be destructive to metals, textiles, leather, finishes, and coatings. SO₂ can also limit visibility.

Toxic Air Contaminants. Toxic air contaminants (TACs) are air pollutants that may lead to serious illness or increased mortality, or which may pose a present or potential hazard to human health (California Health and Safety Code Section 39655), even when present in relatively low concentrations.

Potential human health effects of TACs include birth defects, neurological damage, cancer, and death. There are hundreds of different types of TACs with varying degrees of toxicity. Individual TACs vary greatly in the health risk they present; at a given level of exposure, one TAC may pose a hazard that is many times greater than another's. TACs do not have ambient air quality standards but are regulated by the local air districts using a risk-based approach.

The Project would not include new stationary sources that could be subject to risk assessment programs. Diesel particulate matter (DPM) is classified as a TAC, and statewide programs focus on managing this pollutant through motor vehicle fuels, engine, and tailpipe standards because many toxic compounds adhere to diesel exhaust particles. The local air districts support these programs by issuing permits and requiring controls for larger stationary sources of DPM, including diesel powered engines rated over 50 horsepower. Small diesel-powered backup generators (rated under 50 brake horsepower) would be exempt from obtaining an air permit and performing a source-specific risk assessment.

3.4.1.2. Surrounding Land Uses

Land uses that are sensitive to air pollution are: residences, schools, daycare centers, playgrounds, and medical facilities. Nearby sensitive land uses include the Lake Tamarisk community and occasional rural residences along Highway 177 (Rice Road), such as near Black Binder Road. The Lake Tamarisk community and homes along Kaiser Road would be adjacent to the southwestern-most parcels of the proposed Easley Project. The nearest home in Lake Tamarisk on Shasta Drive would be approximately 0.05 miles (260 feet) from the parcel boundaries of the Project, although construction activity and Project infrastructure would be set back substantially, at least 200 meters (656 feet), from this residential land use. The nearest school is the Eagle Mountain School, over 5 miles north of the Project site. For all construction activity, the distance between residences and the nearest Project site construction would be greater than 200 meters (656 feet).

3.4.2. Regulatory Framework

3.4.2.1. Federal Laws, Regulations, and Policies

Federal Clean Air Act (CAA). The Federal Clean Air Act was enacted in 1970, and the act established the NAAQS for criteria air pollutants. With SCAQMD and ARB, the U.S. EPA shares the responsibility to establish regulations, enforce air pollution control requirements, and develop the necessary air quality management to achieve the NAAQS. The U.S. EPA implements most aspects of the CAA, and reviews local and state air quality management plans and regulations to ensure attainment with the NAAQS.

Federal General Conformity Rule. General conformity regulations (40 CFR Part 93, Subpart B, et seq.) require each lead agency (BLM) to make a determination of whether approval of a project (i.e., a federal action) would cause or contribute to a violation of the NAAQS or interfere with attainment planning. Federal nonattainment designations are in place for portions of the Mojave Desert Air Basin in San Bernardino County and for portions of the SCAQMD including the Salton Sea Air Basin west of the Mojave Desert Air Basin, where the primary pollutants of concern are ozone and PM10. However, there are no federal nonattainment or maintenance designations at the Easley Project site in the Mojave Desert Air Basin portion of Riverside County. Federal agency actions in the Mojave Desert Air Basin portion of Riverside County are not subject to CAA general conformity review requirements.

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Federal Class I Areas. Section 162(a) of the federal Clean Air Act grants special air quality protections to designated federal Class I areas. To protect Class I areas under U.S. EPA delegation the SCAQMD implements the Prevention of Significant Deterioration permitting program, which addresses visibility impairment from new or modified stationary sources in the region, such as power plants, mines or other industrial sources.

The boundary of the Joshua Tree National Park (JTNP) Class I area is 3 miles (4.8 kilometers) away from the nearest boundary of the Easley Project site. Visibility is considered an important air quality value to be protected within JTNP. There are no other Class I areas within 62 miles (100 km) of the Project. Data from the Federal Land Manager Environmental Database indicate that visibility in the JTNP Class I area improved between 2001 and 2010 then remained steady through 2020 for both the clearest days and the most impaired days (CIRA 2022a; CIRA 2022b). Visibility on both the clearest days and on the haziest days has improved from 2001 and has stayed relatively constant for a decade. For JTNP and other Class I areas in southern California, the Western Regional Air Partnership shows that the visual range has improved more than 20 percent (2010-2014) when compared to the baseline (2000-2004), and that this improvement is largely due to the local authorities having the ability to control anthropogenic emissions (WRAP 2016).

3.4.2.2. State Laws, Regulations, and Policies

California Clean Air Act. The California Clean Air Act is implemented by the ARB. This act established broad authority for California to regulate emissions from mobile sources and requires regions to develop and enforce strategies to attain CAAQS. Each regional air district is responsible for demonstrating how these standards are met.

U.S. EPA/ARB Off-Road Mobile Sources Emission Reduction Program. The California Clean Air Act mandates that ARB achieve the maximum degree of emission reductions from all off-road mobile sources to attain the state ambient air quality standards. Off-road mobile sources include construction equipment. The earliest (Tier 1) standards for large compression-ignition engines used in off-road mobile sources became effective in California in 1996. Since then, the Tier 3 standards for large compression-ignition engines used in off-road mobile sources went into effect in California for most engine classes in 2006, and Tier 4 or Tier 4 Interim (4i) standards apply to all off-road diesel engines model year 2012 or newer. These standards and standards applicable to fleets that are already in-use provide comprehensive regulation and control to reduce NOx and toxic particulate matter emissions from diesel use throughout the State.

California ARB In-Use Off-Road Diesel Fueled Fleets Regulation. The regulations for in-use off-road diesel equipment are designed to reduce NOx and toxic diesel particulate matter (DPM). Depending on the size of the fleet of equipment, the owner would need to ensure that the average emissions performance of the fleet meets certain state-wide standards. In lieu of improving the emissions performance of the fleet, electric systems can be installed to replace diesel equipment in the fleet average calculations. Presently, all equipment owners are subject to a five-minute idling restriction in the rule (13 California Code of Regulations, Chapter 10, Section 2449).

California ARB Portable Equipment Registration Program (PERP). This program allows owners or operators of portable engines and associated equipment commonly used for construction or farming to register their units under a statewide portable program. This program allows them to operate their equipment throughout California without having to obtain individual permits from local air districts.

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California ARB Airborne Toxic Control Measures (ATCM). Diesel engines on portable equipment and vehicles are subject to various ATCM that dictate how diesel sources must be controlled statewide to protect public health. For example, the ATCM to Limit Diesel-Fueled Commercial Motor Vehicle Idling generally limits idling of commercial motor vehicles (including buses and trucks) within 100 feet of a school or residential area for more than five consecutive minutes or periods aggregating more than five minutes in any one hour (13 California Code of Regulations, Chapter 10, Section 2485). Diesel engines used in portable equipment fleets are subject to stringent DPM emissions standards, generally requiring use of only newer engines or verified add-on particulate filters (17 California Code of Regulations, Section 93116).

3.4.2.3. Local Laws, Regulations, and Policies

Riverside County General Plan

Riverside County adopted the Air Quality Element of the County General Plan in 2015 and amended it in 2018. The air quality element includes policies supporting regional cooperation with other jurisdictions to improve air quality; requiring compliance with federal, state, and regional air quality regulations; encouraging programs to reduce vehicle miles traveled; encouraging energy conservation in urban land uses; and encouraging development patterns that improve the County's jobs/housing balance.

The Air Quality Element of the General Plan includes one policy directly relevant to the Project:

 Policy AQ 20.19. Facilitate development and siting of renewable energy facilities and transmission lines in appropriate locations (AI 147).

Development of the proposed Project on parcels that are zoned to allow development of renewable energy facilities, are surrounded by public lands designated for renewable energy development and are located nearby to a regional substation with available transmission capacity would be consistent with this policy.

South Coast Air Quality Management District

The Project site and activities are under local jurisdiction of the SCAQMD in the Mojave Desert Air Basin; the MDAB includes portions of Kern, Los Angeles, San Bernardino, and Riverside Counties. Standards for air quality across the SCAQMD jurisdiction are documented in the Air Quality Management Plan (AQMP). The AQMP describes and evaluates the air pollution control strategies to be taken by air quality management agencies in order to bring the area into compliance with the ambient air quality standards. SCAQMD's 2022 AQMP is based on regional growth forecasts for the Southern California Association of Governments region, including population projections based on the regional growth forecast from the 2020 Regional Transportation Plan/Sustainable Communities Strategy. No State Implementation Plan is necessary for the Riverside County portion of the Mojave Desert Air Basin because it is classified as attainment for the ozone standard (SCAQMD 2022).

Most equipment used for construction is classified as mobile sources and are thus exempt from stationary source permit requirements. According to SCAQMD Rule 219, some other equipment used may be subject to permit requirements, such as generators, compressors, pumps, and concrete batch plants.

Table 3.4-3 summarizes the SCAQMD rules relevant to controlling Project emissions.

Applicable Rules	Description
Rules 201, 203, and 212 – Permit to Construct; Permit to Operate; and Standards for Approving Permits and Issuing Public Notice	Establishes the requirements to obtain a Permit to Construct and Permit to Operate for stationary sources of emissions. For exemption categories, see Rule 219: Equipment Not Requiring a Written Permit Pursuant to Regulation II.
Rule 401 – Visible Emissions	Limits visible emissions.
Rule 402 – Nuisance	Prohibits the discharge of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to the public or which endanger the comfort, response, health or safety of the public or which cause injury or damage to business or property.
Rule 403 – Fugitive Dust	Requires submitting a Large Operation Notification form to the SCAQMD and requires compliance with best available control measures listed in the rule. Limits fugitive emissions from certain bulk storage, earthmoving, con- struction and demolition, and manmade conditions that may cause wind erosion.
Rule 404 – Particulate Matter Concentration	The rule limits particulate matter emissions as a function of the exhaust flow rate from the regulated device.
Rule 463 – Organic Liquids Storage	Sets standards for storage of organic liquids with a true vapor pressure of 0.5 pounds per square inch or greater and standards for above-ground tanks used for gasoline storage with a capacity over 250 gallons.
Rule 1110.2 – Emissions from Gaseous and Liquid-Fueled Internal Combustion Engines	The purpose of this rule is to reduce NOx, VOCs, and CO from engines.
Regulation XIII – New Source Review	Establishes the pre-construction review requirements, including Best Available Control Technology and emission offset requirements for new, modified or relocated facilities to ensure that these facilities do not interfere with progress in attainment of the national ambient air quality standards.

Table 3.4-3.SCAQMD Rules and Regulations

Notification Requirements under SCAQMD Rule 403. Rule 403 (Fugitive Dust) prohibits creation of dust plumes that are visible beyond the property line of the emission source and requires all active operations to implement applicable best available control measures. Enhanced dust control and notification requirements apply if the project is considered a "large operation" under this rule, which is any active operations on property that contains 50 or more acres of disturbed surface area.

3.4.3. Methodology for Analysis

All construction- and operation-related emissions are quantified based on the best available forecast of activities. This analysis uses the California Emissions Estimator Model (CalEEMod; version 2020.4.0) software developed by the California Air Pollution Control Officers Association (CAPCOA).¹⁴ This is the most recent desktop version of the CalEEMod software, and it relies upon mobile source emission factors from the Air Resources Board (ARB) OFFROAD2011 inventory and EMFAC2017 models. Where project-specific design features are not yet defined, default and typical settings from CalEEMod are used, as published in the CalEEMod User's Guide and supporting appendices (CAPCOA 2021). The Easley Renewable Energy Project EIR Appendix J, Greenhouse Gas Emissions Analysis, September 2023, provides details on the

¹⁴ Use of desktop version 2020.4.0 of CalEEMod is allowed based on the project 2022 application filing date; the initial online version of the CalEEMod software was launched in December 2022 (2022.1.1.3).

construction and operational assumptions for the proposed Project and resulting emissions estimates used in this analysis.

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3.4.4. CEQA Significance Criteria

The criteria used to determine the significance of potential air quality impacts are based on Appendix G of the CEQA Guidelines. The proposed Project would result in a significant impact under CEQA related to air quality if the Project would:

- Conflict with or obstruct implementation of the applicable air quality plan?
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?
- Expose sensitive receptors to substantial pollutant concentrations?
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The County of Riverside's Environmental Assessment Form includes additional significance criteria, which were also used in the analysis. The additional criteria indicate that a project could have potentially significant impacts if it would:

• Expose sensitive receptors, which are located within one (1) mile of the project site, to substantial pollutant concentrations?

SCAQMD Emissions Thresholds. To characterize the potential impact of criteria air pollutant emissions in the CEQA process, SCAQMD recommends use of regional significance thresholds for construction and for project-related operation emissions that are subject to CEQA review. The emissions from the activities of construction and operation of the project are compared to these SCAQMD regional significance thresholds to determine whether the project would result in adverse air quality impacts.

The project-level SCAQMD regional significance emissions thresholds for construction phase and operation emissions are shown in Table 3.4-4:

Pollutant	Construction (lb/day)	Operation (lb/day)	
Nitrogen Oxides (NOx)	100	55	
Volatile Organic Compounds (VOC)	75	55	
PM10	150	150	
PM2.5	55	55	
Carbon Monoxide (CO)	550	550	
Sulfur Oxides (SOx)	150	150	
Source: SCAQMD 2023.			

Table 3.4-4.	SCAQMD Regional Significance Emissions Thresholds
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For emissions exceeding the regional significance thresholds, the SCAQMD also provides air quality significance thresholds for ambient air quality impact assessments, which may be used to calculate the downwind concentrations caused by the on-site portions of project emissions.

For emissions from sites that are near sensitive receptors and are five acres or less, SCAQMD developed the Localized Significance Thresholds (LSTs) to evaluate whether a mass emission rate from a project may generate significant adverse localized air quality impacts. The LSTs may be used by lead agencies as a way of indicating whether a project could locally exceed the ambient air quality standards at a given distance from the site boundary (SCAQMD 2009). The LSTs vary depending on the meteorological conditions for each Source Receptor Area within the SCAQMD jurisdiction.

Table 3.4-5 shows the LSTs recommended by SCAQMD for the Desert Center area (East Riverside County).

Table 3.4-5.	SCAQMD Localized Significance Emissions Thresholds
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Pollutant	Con	Operation (lb/day)				
Distance from Sources:	100 meters 200 meters 500 meters			100 meters	200 meters	500 meters
Nitrogen Oxides (NOx)	425	547	875	425	547	875
PM10	67	112	248	16	27	60
PM2.5	19	37	128	5	9	31
Carbon Monoxide (CO)	5,331	10,178	31,115	5,331	10,178	31,115

Note: These LSTs are for sites of 5 acres. East Riverside County is SCAQMD "Source Receptor Area" zone 31. Source: SCAQMD 2009.

3.4.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to air quality. Public concerns related in the scoping process involved:

- Increased risk of Valley Fever.
- Increased airborne dust created from solar projects due to the ground disturbance and removal of vegetation and the potential transport of airborne silica and herbicides.
- Potential for airborne dust settling and accumulating on items in the community and on water in Lake Tamarisk.
- Standards for regulating silica and using ground matting to reduce exposure to dust.

To be responsive to scoping comments and to avoid these potential effects, the need for aggressive dust control strategies is addressed in this analysis. The use and control of herbicides for vegetation management are addressed in EIR Section 3.5, Biological Resources.

Impact AQ-1: Would the Project conflict with or obstruct implementation of the applicable air quality plan?

LESS THAN SIGNIFICANT. For the Project area, the SCAQMD and ARB ensure implementation of California's air quality management plans, known collectively as the State Implementation Plan. State-level air quality planning strategies to attain CAAQS are implemented through rules, regulations, and programs adopted by SCAQMD and ARB to control ozone precursors, PM10, and PM2.5. All construction and Project development-related activities, including operation and maintenance and eventual decommissioning, would comply with the applicable rules, regulations, and programs. Strategies and control measures identified within the SCAQMD 2022 Air Quality Management Plan (AQMP) apply directly to Project activities as promulgated through SCAQMD's rules and regulations.

All construction and operational activities and eventual decommissioning would comply with SCAQMD's Rule 402 and 403, which prevent nuisances and regulate fugitive dust emissions. The Project would also conform to the federal and state Clean Air Act requirements by complying with the rules and regulations that are contained in the air quality plan. Equipment used during decommissioning activities and dust control efforts would need to comply with all local, State, and federal laws and regulations in effect at the time of decommissioning.

SCAQMD's 2022 AQMP provides the strategy and the underlying technical analysis for how the region will meet federal standards by the required dates and continue progress to achieve the state ambient air guality standards. The base year and future emissions inventories in the SCAQMD's 2022 AQMP is are based on regional growth factors and demographic trends that allow for new development in response to population, housing, and employment trends (SCAQMD 2022). The emissions increase of an individual

<u>development project would not rise to a level of significance, however, when the project is within the</u> <u>regional significance emissions thresholds established by SCAQMD.</u> A project could be inconsistent with the applicable air quality management plan or attainment plan if it causes population and/or employment growth or growth in vehicle-miles traveled in excess of the growth forecasts included in the attainment plan. The Project would employ up to 10 permanent staff on site for regularly providing ongoing maintenance and repairs, including panel washing and security.

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The construction workforce would involve short-term employment. Upon commencing routine operation, the construction workforce would no longer be employed, and only the limited workforce of permanent employees would remain in the area. Accordingly, Project construction and operation would not result in activities that could conflict with or obstruct implementation of the applicable air quality plan, and this impact would not be significant.

Mitigation Measures for Impact AQ-1

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

Impact AQ-2: Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?

Less THAN SIGNIFICANT WITH MITIGATION, CONSTRUCTION AND DECOMMISSIONING. The Project site is in an area designated as non-attainment for State-level ozone and PM10 standards. Emissions during the temporary 20-month duration of construction would include criteria air pollutants that could exceed quantitative thresholds for regional ozone precursors or PM10. Emissions exceeding the thresholds would represent a cumulatively considerable net increase of nonattainment pollutants that could contribute to existing or projected violations of the ambient air quality standards.

Construction and the eventual decommissioning would generate emissions at the Project site and off-site along the roadways traveled by construction traffic. Construction emissions would be caused by exhaust from vehicles and equipment. Exhaust emissions include ozone precursors (VOC or ROG and NOx), CO, and particulate matter (including PM10 and PM2.5). Fugitive dust includes particulate matter from soil eroded by ground-disturbing activities and by travel on unpaved surfaces and on paved road surfaces. Decommissioning activities would create a temporary phase of similar emissions to dismantle solar panels and other components after the end of the Project's useful life of 30 to 50 years, per an agency-approved Closure and Decommissioning Plan.

To minimize the amount of fugitive dust from unpaved surfaces and emissions from other ground-disturbing activities during the site preparation period, all construction activity would be required to comply with local air district rules regarding dust control (including SCAQMD Rule 403). Diesel and gasolinepowered construction equipment would be classified as portable or as mobile sources (off-road equipment, trucks, and helicopters during installation of the gen-tie). These sources are subject to statewide registration and fleet requirements.

On-road motor vehicle emissions would occur primarily off-site. The on-road sources include the heavyduty trucks to deliver equipment, concrete, water, and other materials, and light-duty vehicles carrying crews and medium-duty deliveries. Motor vehicle exhaust emissions would occur outside of the proposed work sites as the traffic would occur primarily over the region-serving transportation network. Regional emissions include the on-road vehicles traveling through or from the adjacent air basins and the jurisdiction of the Mojave Desert Air Quality Management District. Trip lengths assume that all worker and delivery vehicles travel an average of 60 miles for any type of trip (details in EIR Appendix J, Attachment B), for an average level of travel to population centers in Blythe or Indio. Some materials trips likely originating from the Ports of Long Beach and Los Angeles or storage areas outside of the Project's air basin (Mojave Desert Air Basin).

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For construction emissions from trucks, the number of active trucks would vary with different phases of activities. Emissions reflect materials delivery trucks averaging 60 round trips per day (120 per day one-way) during the peak overlap of solar PV installation and electrical work. This level of truck trip generation represents a proportional reduction of construction traffic trip generation determined for the proposed development of a prior (larger, 650 MW) version of the Easley Project, described in EIR Appendix H (Traffic Impact Study Report).

The nature of construction-phase emissions is to be intermittent and variable due to the need for construction tasks to occur in sequences and adapt to changing site conditions. Additionally, emission sources would be dispersed across the site and not always used continuously or at the same time. Substantial or adverse levels of localized ground-level concentrations would be unlikely during construction because pollutants would be emitted from several pieces of equipment dispersed over large areas. Dust control and engine exhaust would be subject to SCAQMD rules and regulations to avoid adverse levels of air pollutant concentrations.

The exact timing of development activities would be determined after Project approval. Construction would occur over approximately 20 months and may be phased.

This analysis considers construction across the parcels of the Project site would follow a sequence of four types of activities that could potentially overlap, as follows:

- Site preparation, including grading and vegetation management.
- Solar PV panel system installation.
- Inverters, transformers, substation and electrical collector system, and BESS installation.
- Construction of 500 kV gen-tie.

Table 3.4-6 summarizes the annual emissions within each of the calendar years of anticipated construction, without potential mitigation.

Construction Year	VOC	NOx	со	SOx	PM10	PM2.5
Year 1, Vehicles, Equipment, Fugitive Dust	1.51	10.53	15.12	0.04	13.90	2.74
Year 2, Vehicles, Equipment, Fugitive Dust	2.50	17.71	26.72	0.08	25.14	3.94
Year 2, Helicopter Activity	0.37	0.13	0.47	N/A	< 0.01	< 0.01
Maximum Annual Emissions, without Mitigation	2.87	17.84	27.19	0.08	25.15	3.95

Table 3.4-6.	Easley Project: Construction, Annual Emissions without Mitigation (ton/year)
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Source: EIR Appendix J.

This analysis recommends implementing mitigation to reduce construction-related NOx and PM10 due to the designation of the area as non-attainment for the State-level ozone and PM10 standards. Available mitigation includes specific dust control practices (Mitigation Measure AQ-1) and standards to require controls for off-road equipment engines (Mitigation Measure AQ-2); the measures appear under the heading "Recommended Mitigation."

Including dust control (MM AQ-1) and off-road equipment emissions controls (MM AQ-2) as mitigation would substantially reduce the construction emissions of NOx and PM10. To conserve water while controlling dust, mitigation (MM AQ-1) would allow use of soil stabilizers or soil weighting agents on unpaved roads and disturbed areas. Because some commercially available chemical dust suppression products may cause odors or may contain compounds that are air pollutants, the mitigation (MM AQ-1) specifies using non-toxic soil stabilizers that avoid increasing another impact such as adverse odors or additional emissions of ozone precursors ROG or VOC. In the effort to mitigate construction off-road equipment emissions of NOx, emissions of CO would increase somewhat. However, CO is a pollutant that causes no existing violations of ambient air quality standards in the Project area, and Project-related CO emissions would not be likely to cause a new violation of standards.

Table 3.4-7 summarizes the annual emissions within each of the calendar years of anticipated construction, including mitigation for dust control practices (MM AQ-1) and off-road equipment engine standards (MM AQ-2). Previous utility-scale solar projects in eastern Riverside County similar to the Project have successfully used the Tier 4 standards for construction equipment as a way of ensuring the newest fleet of off-road equipment would be brought to the site. Developers of utility-scale solar projects in eastern Riverside County have tended to use contractors with "large fleets" subject to the most stringent performance requirements of the CARB In-Use Off-Road Diesel Fueled Fleets Regulation (13 California Code of Regulations, Section 2449.1), and the fleets regulation bans the addition of Tier 3 engines after January 1, 2024 [13 CCR 2449(d)(6)(D)]. Based on prior projects in eastern Riverside County, the stringent fleets requirements established by CARB, and availability of equipment meeting the Tier 4 final standards, it is anticipated that the Project contractors can feasibly comply with the Tier 4 commitments of MM AQ-2.

Construction Year	voc	NOx	СО	SOx	PM10	PM2.5
Year 1, Vehicles, Equipment, Fugitive Dust	0.81	4.37	16.21	0.04	4.47	1.22
Year 2, Vehicles, Equipment, Fugitive Dust	1.36	9.12	27.96	0.08	6.98	1.65
Year 2, Helicopter Activity	0.37	0.13	0.47	N/A	< 0.01	< 0.01
Maximum Annual Emissions, with Mitigation	1.73	9.25	28.43	0.08	6.99	1.65

Table 3.4-7.	Easley Project: Construction, Mitigated Annual Emissions (ton/year)
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Source: EIR Appendix J.

The highest rate of emissions would occur during the first anticipated calendar year of construction. Because construction activity can vary from day to day within a given calendar year, SCAQMD recommends quantifying daily peak rates of construction emissions.

Table 3.4-8 summarizes the maximum daily emissions rates anticipated within the different calendar years of construction, prior to considering mitigation.

Table 3.4-8. Easley Project: Construction, Daily Emissions without Mitigation (lb/day

Construction Year	VOC	NOx	СО	SOx	PM10	PM2.5
Year 1, Vehicles, Equipment, Fugitive Dust	27.33	175.40	303.85	0.85	279.60	43.14
Year 2, Vehicles, Equipment, Fugitive Dust	26.67	174.25	294.55	0.83	279.59	43.13
Year 2, Helicopter Activity	24.29	7.92	30.98	N/A	0.27	0.27
Maximum Daily Emissions, without Mitigation	50.96	182.17	325.53	0.85	279.86	43.40
SCAQMD Daily Thresholds (Construction) for CEQA Purposes	75	100	550	150	150	55
Source: EIR Appendix J.						

Source: EIR Appendix J.

As seen in Table 3.4-8, maximum daily construction emissions without controls could exceed the SCAQMD significance thresholds for NOx and PM10. This analysis identifies two feasible mitigation measures that could be implemented to substantially reduce these emissions.

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Table 3.4-9 summarizes the daily emissions including mitigation for dust control practices (MM AQ-1) and off-road equipment engine standards (MM AQ-2) to reduce the total emissions of NOx and PM10.

Construction Year	voc	NOx	со	SOx	PM10	PM2.5
Year 1, Vehicles, Equipment, Fugitive Dust	16.19	92.65	315.29	0.85	77.80	18.25
Year 2, Vehicles, Equipment, Fugitive Dust	15.53	91.49	306.00	0.83	77.79	18.24
Year 2, Helicopter Activity	24.29	7.92	30.98	N/A	0.27	0.27
Maximum Daily Emissions, with Mitigation	39.82	99.42	336.98	0.85	78.06	18.51
SCAQMD Daily Thresholds (Construction) for CEQA Purposes	75	100	550	150	150	55
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Table 3.4-9. Easley Project: Construction, Mitigated Daily Emissions (lb/day)

Source: EIR Appendix J.

Table 3.4-9 shows that with implementation of mitigation for dust control practices (MM AQ-1) and offroad equipment engine standards (MM AQ-2) the maximum daily emissions of all pollutants during construction would be reduced to levels below the SCAQMD thresholds. The impact of increased criteria air pollutant emissions during construction would not be significant with mitigation.

LESS THAN SIGNIFICANT, OPERATIONS AND MAINTENANCE. Operations-related emissions would be caused by upkeep, maintenance, inspections, security, and panel washing. These activities necessary for routine upkeep of the solar facility and gen-tie lines would involve up to 10 permanent staff on the site. Mobile source emissions include those from vehicles used by staff and for occasional deliveries during O&M, and area sources reflect default assumptions for landscaping as a proxy for routine vegetation management. Occasional testing of the backup generator would cause stationary source emissions. The Project would be required by general air district provisions to implement controls such as the use of water or chemical dust suppressants to minimize particulate matter emissions, to prevent visible emissions, and to avoid nuisances.

Table 3.4-10 summarizes the emissions estimated during routine O&M of the Project.

Source Type	VOC	NOx	СО	SOx	PM10	PM2.5
Area Sources	1.52	0.15	16.53	0.00	0.06	0.06
Mobile Sources	0.89	1.87	13.30	0.03	56.66	6.23
Stationary, Backup Generator Testing	0.05	0.16	0.18	0.00	0.01	0.01
Maximum Daily Emissions	2.47	2.19	30.02	0.03	56.72	6.30
SCAQMD Daily Thresholds (Operation) for CEQA Purposes	55	55	550	150	150	55
Source: FIR Annendix I						

Table 3.4-10. Easley Project: Operation, Daily Emissions (lb/day)

Source: EIR Appendix J.

Emissions during O&M would be minor due to the limited number of crews and workers using equipment and vehicles around the site. (Refer to EIR Appendix J, Easley Renewable Energy Project, Greenhouse Gas Emissions Report, September 2023, Attachment A, AQ/GHG Emissions Inventory for details on quantification.)

The routine O&M emissions would not exceed the SCAQMD thresholds. With minimal direct emissions during operation, operation of the Project would not result in a cumulatively considerable net increase of any criteria pollutant, and this impact of criteria air pollutant emissions would be less than significant with mitigation. No operational-phase mitigation would be required.

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Public Health Effects of Air Pollution

The U.S. EPA and CARB have established health-based air quality standards for criteria pollutants at the national and state levels, respectively. These standards were established to protect the public (with a margin of safety) from adverse health impacts caused by exposure to air pollution. California has also established standards for sulfates, visibility-reducing particles, hydrogen sulfide, and vinyl chloride. Table 3.4-1 lists the NAAQS and CAAQS.

Concentrations of ozone and PM10 for the proposed Project area occur at nonattainment levels for the California ambient air quality standards, which as stated above, are set at levels to adequately protect the health of the public including infants and children, with an adequate margin of safety. The U.S. EPA sets the NAAQS based on a lengthy process that involves science policy workshops, a risk/exposure assessment (REA) that draws on the information and conclusions of the science policy workshops to develop quantitative characterizations of exposures and associated risks to human health or the environment, and a policy assessment by U.S. EPA staff that bridges the gap between agency scientific assessments and the judgments required of the U.S. EPA administrator, who then takes the proposed standards through the federal rulemaking process (U.S. EPA 2019). Similar to the federal process, the standards for the CAAQS are adopted after review by CARB staff of the scientific literature produced by agencies such as the OEHHA; the Air Quality Advisory Committee, which is comprised of experts in health sciences, exposure assessment, monitoring methods, and atmospheric sciences appointed by the Office of the President of the University of California; and public review and comment (ARB 2024).

Operation of the Project would not result in emissions that exceed the SCAQMD emission thresholds for any criteria air pollutants. Regarding VOCs, some VOCs would be associated with motor vehicles, the emissions of which would not result in the exceedances of the SCAQMD thresholds.

In addition, VOCs and NOx are precursors to ozone. The health effects associated with ozone are generally associated with reduced lung function. The contribution of VOCs and NOx to regional ambient ozone concentrations is the result of complex photochemistry. The highest ozone concentrations in the air basin due to ozone precursor emissions tend to be found downwind of densely populated areas sources, because the ozone precursors require time for the photochemical reactions to occur (SCAQMD 2022). The VOC and NOx emissions associated with Project operation could minimally contribute to regional ozone concentrations and the associated health impacts. Due to the minimal contribution of Project emissions at levels that would not exceed SCAQMD thresholds during operation, ozone formation by the Project would not result in significant health impacts.

Similar to ozone, operation of the Project would not exceed thresholds for PM10 or PM2.5 and would not contribute to exceedances of the NAAQS and CAAQS for particulate matter. Due to the minimal contribution of particulate matter of Project emissions at levels that would not exceed SCAQMD thresholds during operation, the Project would not result in significant health impacts from particulate matter emissions.

Regarding NO₂, NOx emis-sions were assumed to be equivalent to NO₂ emissions). NO₂ and NOx health impacts are associated with respiratory irritation. However, these NOx emissions during operation would be minimal at levels that would not exceed SCAQMD NOx thresholdand infrequent. Therefore, the Project would not result in significant health impacts due to NO₂.

The VOC and NOx emissions, as described previously, would minimally contribute to regional ozone concentrations and the associated health effects. In addition to ozone, NOx emissions would not contribute to potential exceedances of the NAAQS and CAAQS for NO₂. As shown in Table 3.4-2Table 3.4-2, the existing NO₂ concentrations in the area are below the NAAQS and CAAQS. Thus, it is not expected the Project's operational NOx emissions would result in exceedances of the NO₂ standards or contribute to the associated health effects.

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<u>CO tends to be a localized impact associated with congested intersections. The Project would emit CO at levels that would not exceed SCAQMD CO threshold and would not create traffic at a level likely to result in any CO hotspots. The CO impacts would be less than significant. Thus, the Project's CO emissions would not contribute to significant health effects associated with this pollutant.</u>

With mitigation, Project criteria air pollutant emissions would occur at levels that would not result in a cumulatively considerable net increase, and the Project contribution to public health effects of air pollution would not be significant.

Mitigation Measures for Impact AQ-2

- MM AQ-1 Fugitive Dust Control Plan. See full text in Section 3.4.9 (Mitigation Measures).
- MM AQ-2 Control On-Site Off-Road Equipment Emissions. See full text in Section 3.4.9 (Mitigation Measures).

Significance After Mitigation

The increased air pollutant emissions that would occur with the proposed Project construction activities would be adverse after mitigation but not at significant levels. This impact would be less than significant during operation.

Impact AQ-3: Would the Project expose sensitive receptors to substantial pollutant concentrations?

Less THAN SIGNIFICANT WITH MITIGATION, CONSTRUCTION AND DECOMMISSIONING. This criterion assesses whether the Project would expose sensitive receptors to substantial pollutant concentrations. Construction activities would result in locally increased concentrations of construction-related emissions, including criteria air pollutants, diesel particulate matter (DPM) and other toxic air contaminants, which would cause increased health risk and hazards near the site. Decommissioning activities would create similar emissions that could also result in temporary, locally increased concentrations of these pollutants after the end of the Project's useful life.

Criteria Air Pollutants. The SCAQMD recommends using Localized Significance Thresholds for determining near-field impacts resulting from criteria air pollutant emissions from a small development site (up to 5 acres). In contrast, the Easley Project would cover approximately 3,735 acres of private and BLM land, <u>plus approximately 139 acres for the gen-tie line corridor</u>. Because of the large site, the LSTs do not directly apply; however, this discussion uses the LSTs as a proxy for describing near-field impacts.

Construction-related emissions sources would be spread across the site and off-site. This analysis identifies mitigation to reduce construction-related emissions under Impact AQ-2. The mitigation focuses on implementing dust control practices (MM AQ-1) and off-road equipment engine standards (MM AQ-2) to reduce the overall emissions, which also reduces the potential near-field impacts of on-site construction emissions. Particles of airborne fugitive dust may pose a health risk if inhaled because minerals such as silica or organic components present in the soils. Controlling fugitive dust during construction reduces the potential for wind erosion of soils and limits the ability for soils to become airborne and inhaled. Emissions from off-site sources, including on-road vehicles and vehicles on the regional roadways, are included in the emissions inventories for construction and operation although the effects of off-site sources would be diminished by distance when compared with the on-site sources that predominately contribute to near-field effects.

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Sensitive receptors include the residences in and around the Lake Tamarisk community. All nearby residences would be more than 200 meters (656 feet) away from the nearest construction on the site. Most sources of construction emissions on the site and virtually all off-site sources would be more than 500 meters (1,641 feet) from residential land uses.

Maximum daily construction emissions with mitigation (shown in Table 3.4-8) would not exceed the recommended LSTs for any pollutant for receptors that are located 200 meters or more from sources of construction air pollutants. The mitigation focuses on the types of sources that occur on-site, and dust control requirements ensure that the mitigated PM10 and PM2.5 emissions would not exceed their respective LSTs. (Refer to EIR Appendix J, Easley Renewable Energy Project, Greenhouse Gas Emissions Report, September 2023, Attachment A for emissions inventory results and Attachment B for CalEEMod Output.)

Because on-site construction emissions of criteria air pollutants would be below all applicable LSTs, Project construction would not be likely to locally exceed the ambient air quality standards. Daily emissions during operation would mostly be caused by mobile source activity occurring off-site and less likely than construction to contribute to substantial pollutant concentrations.

With mitigation to reduce construction dust (MM AQ-1) and reduce engine exhaust emissions (MM AQ-2), construction and operation emissions would not expose sensitive receptors to substantial pollutant concentrations of criteria air pollutants, and the incremental health effects of criteria pollutants would be less than significant.

Toxic Air Contaminants. The primary health risks to nearby sensitive receptors would be driven by carcinogenic DPM emissions from on-site equipment and vehicles during construction. Noncancer effects of DPM are normally less of a concern than cancer risks. The construction duration creates the potential to deliver a dose over a short time period, spanning two calendar years in this case. However, the recommended exposure duration for estimating cancer risk to residents or off-site workers would be 30 years or 25 years, respectively, according to the Office of Environmental Health Hazard Assessment (OEHHA), Guidance Manual for the Preparation of Health Risk Assessments (OEHHA 2015).

Health effects from carcinogenic TACs are usually described in terms of individual cancer risk over a 30year exposure duration. This introduces uncertainty in the quantification of cancer risk, because the risk from construction emissions would occur only during a small fraction of a lifetime, and construction would cease following completion of the Project. Therefore, the total exposure period for construction activities would be approximately six percent of the total exposure period used for typical residential health risk evaluation (30 years). Further, construction emissions would occur at variable rates during the short term and across a <u>solar and BESS facility</u> site of approximately 3,735 acres, rather than as a steady rate of emissions. Concentrations of mobile source DPM emissions are greatly reduced by distance, such that a separation of 1,000 feet (305 meters) normally allows sensitive land uses to avoid high levels of DPM concentrations (ARB 2005).

Proposed construction sources of DPM would be set back from the nearest occupied residences by more than 200 meters (656 feet), and most construction emissions would occur more than 1,000 feet away from all sensitive receptors. Accordingly, there would be little potential to expose sensitive receptors to substantial pollutant concentrations of carcinogenic DPM. The impact of localized ground level concentrations and incremental health effects of toxic air contaminants would not be significant with mitigation to reduce construction dust (MM AQ-1) and reduce engine exhaust emissions (MM AQ-2).

Valley Fever. Soils in some areas of California host the microscopic fungus that causes Valley Fever, known as *Coccidioides immitis*, which lives in the top two to 12 inches of soil in many parts of the state. When soil is disturbed by activities such as digging, driving, or high winds, fungal spores can become airborne

and potentially be inhaled. <u>People who become sick with Valley Fever (also called *coccidioidomycosis*) can experience respiratory symptoms including cough, fever, chest pain, and tiredness. Most people (about 6 in 10) who are infected with Valley Fever have no symptoms, and their bodies will fight off the infection naturally. When compared with COVID-19, which shares many of the same symptoms, laboratory tests and usually a blood test are required in order to know whether the Valley Fever fungus has infected the lungs (CDPH, 2024).</u>

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Workers in Riverside County are at a relatively lower risk <u>for Valley Fever</u> than in other areas of California. Based on yearly data published by the Infectious Diseases Branch of the California Department of Public Heath, California has experienced a trend of higher numbers of cases, with statewide average incidence rates between 18.2 to 22.9 per 100,000 of population during the five most-recent years of records from 2017 to 2021. This compares with statewide incidence rates of below 12.0 per 100,000 of population between 2001 and 2010. For Riverside County, incidence rates have increased from well below statewide averages to local incidence rates of 18.4 per 100,000 of population (2021) that are roughly equal with the statewide averages (CDPH, 2015; CDPH, 2022). The trend in case count data shows that Riverside County is approaching yet remains below the rate required for a county to be classified as having highly endemic Valley Fever (as disclosed in EIR Section 3.10.1.4, Hazards and Hazardous Materials).

In additionFor individuals on the construction site, employers have a legal responsibility to provide workers with protection from health risks, including any risks due to Valley Fever (DIR 2022). The primary ways to reduce the risk of Valley Fever are to avoid exposure to dusty air or dust storms, prevent dirt or dust from becoming airborne, and, if working at a dusty site is unavoidable, wear respiratory protection with particulate filters rated as N95 or higher (DIR 2022). Project construction activities would be subject to stringent dust control requirements (including SCAQMD Rule 403). These mandatory controls would avoid exposing construction workers and the off-site population to substantial concentrations of dust, to ensure that the impact of potential exposure to Valley Fever would be less than significant.

Visibility and Federal Class I Areas. Under the federal CAA, Class I areas are provided the greatest protections. The nearest boundary of the JTNP Class I area is located 3 miles (4.8 kilometers) from the Project boundary. Ambient air quality impacts of the Project including increased concentrations of airborne dust, including PM10 and PM2.5, and NOx emissions could impact visibility. However, the sources of emissions during construction would occur near the ground level, where dust would have a limited ability to notably affect distant vistas, and emissions would be widely dispersed across the Project site. The near-ground release and intermittent nature of construction sources ensures that the concentration near the JTNP would be much lower than the localized effects near the Project activities. Additionally, all cumulative projects are anticipated to avoid visible plumes and control dust as required by SCAQMD Rule 401 and Rule 403. Projects subject to the CEQA process would also implement additional mitigation measures where needed to control dust. Controlling construction emissions as required by local rules and regulations and through mitigation measures identified above ensures that users of the JTNP would not experience substantial concentrations of pollutants, and the impact to visibility would be less than significant.

Less THAN SIGNIFICANT, OPERATIONS AND MAINTENANCE. Site activities and the operations-related emissions from upkeep, maintenance, inspections, security, and panel washing would occur more than 200 meters (656 feet) away from the closest residence or inhabitable dwellings. Therefore, there would be no potential to expose sensitive receptors to substantial pollutant concentrations, and this impact would not be significant.

Mitigation Measures for Impact AQ-3

MM AQ-1 Fugitive Dust Control Plan. See full text in Section 3.4.9 (Mitigation Measures).

MM AQ-2 Control On-Site Off-Road Equipment Emissions. See full text in Section 3.4.9 (Mitigation Measures).

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Significance After Mitigation

The localized air pollutant concentrations in the vicinity of proposed Project construction activities would be adverse but not at significant levels. This impact would be less than significant during operation.

Impact AQ-4: Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

LESS THAN SIGNIFICANT. During construction and decommissioning after the end of the Project's useful life, there would be no other emissions or odors that would adversely affect a substantial number of people. The closest residential use to the Project site would be more than 200 meters (656 feet) away from all onsite activity. The Project site is also relatively remote, and there is not a substantial number of people near the site.

Operation of the Project would involve no potential sources of emissions that could lead to odors, that would adversely affect a substantial number of people. The closest residence or inhabitable dwelling to the Project site would be more than 200 meters (656 feet) away from on-site activities. Therefore, the potential impact related to odors or other adverse emissions would be less than significant.

Mitigation Measures for Impact AQ-4

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.4.6. Cumulative Impacts

Geographic Scope

The geographic area affected by the proposed Project and the potential to contribute to cumulative impacts is based on the topography of the area and the natural boundaries affecting air resources. For air quality, the geographic scope of cumulative effects includes consideration of regional air emissions across the entire Mojave Desert Air Basin.

Cumulative Impact Analysis

The analysis of project impacts for Impact AQ-2 is inherently a cumulative analysis. The analysis considers the cumulative effects of past projects as contributing to existing nonattainment conditions and addresses whether the Project would result in a cumulatively considerable net increase of any criteria pollutant for which the Project region ins non-attainment under an applicable federal or state ambient air quality standard. The analysis in Impact AQ-2 follows the methodology recommended by SCAQMD for that evaluation. The Project would increase the generation of criteria air pollutants in the region consistent with population, housing, and employment trends (Impact AQ-1). Individual projects are required to implement feasible mitigation measures for criteria air pollutants emissions if the project emissions exceed the thresholds of significance adopted by the SCAQMD. The Project includes mitigation measures to reduce short-term construction of criteria air pollutants and precursors. Operational emissions from the Project would not exceed SCAQMD thresholds, and no mitigation would be required. The Project, as well as all

related projects, would also be subject to SCAQMD regulations and regulations promulgated by the State of California that are intended to reduce air quality emissions.

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The construction-phase emissions related to the proposed Project would likely occur concurrently with other <u>cumulative-related</u> projects in the Mojave Desert Air Basin and would contribute to the adverse effects <u>of-with</u> other <u>cumulative-related</u> projects to result in a cumulative impact to air quality that is significant.

The incremental contribution of the proposed Project to the cumulative impact would be reduced by implementing MM AQ-1 (Fugitive Dust Control Plan) and MM AQ-2 (Control On-Site Off-Road Equipment Emissions), as mitigation for the project-specific effects described in Impact AQ-2 and Impact AQ-3. Because construction-related air pollutant emissions would be mitigated <u>below SCAQMD thresholds</u> and would entirely cease after construction, within approximately 20 months, the construction emissions would not cause substantial long-term cumulative impacts. The incremental contribution of the proposed Project to the cumulative air quality impact would be reduced to the extent feasible during construction and would not be cumulatively considerable.

Mitigation Measures for Cumulative Impacts

Mitigation Measures MM AQ-1 and MM AQ-2 would be implemented to address potential air quality impacts for the proposed Project. No additional mitigation is required.

Significance After Mitigation

The Project's incremental contribution to air quality impacts would not be cumulatively considerable.

3.4.7. Mitigation Measures

MM AQ-1 Fugitive Dust Control Plan. The Project owner, its contractor, or its subcontractor shall prepare and implement a Fugitive Dust Control Plan to address fugitive dust emissions during Project construction, operation, maintenance, and decommissioning. The plan shall include measures to minimize fugitive dust emissions from the commencement of construction activities through operations, maintenance, and decommissioning. In the case where the contractor obtains permit coverage under SCAQMD Rule 403, that permit and associated plan will be incorporated into the final Fugitive Dust Control Plan prepared by the Project owner. During construction, the Project owner, its contractor, and subcontractors shall take every reasonable precaution to prevent all airborne fugitive dust plumes from leaving the Project site, to prevent visible particulate matter from being deposited upon public roadways, and shall adhere to the SCAQMD rules. The plan shall be subject to review and approval by the SCAQMD (Rule 403).

The following measures shall be included within the plan:

- Prior to commencing construction, the Project owner, its contractor, or its subcontractor shall designate and retain for the duration of construction a Dust Control Supervisor. The Dust Control Supervisor shall have successfully completed the SCAQMD Rule 403 dust control compliance training class. The Dust Control Supervisor shall have full access to all areas of construction on the Project site, gen-tie line, and other linear facilities and shall have the authority to stop any or all construction activities as warranted by applicable construction mitigation conditions.
- During construction, all unpaved roads, disturbed areas (e.g., areas of scraping, excavation, backfilling, grading, and compacting), and loose materials generated during construction activities shall be stabilized with a non-toxic soil stabilizer or soil weighting

agent or watered two times daily or as frequently as necessary to minimize fugitive dust generation. Non-water-based soil stabilizers shall be as efficient as or more efficient for fugitive dust control than ARB-approved soil stabilizers and shall not increase any other environmental impacts, including loss of vegetation, adverse odors, or emissions of ozone precursor reactive organic gases (ROG) or volatile organic compounds (VOC). The proposed soil stabilizing products shall be listed in the Plan and are subject to review and approval by Riverside County, BLM, and CDFW. Any soil stabilizers proposed shall be consistent with those recommended in the Stormwater Pollution Prevention Plan (SWPPP) and shall also be approved for use by the project's Restoration Specialist to ensure that the products would not impede restoration goals.

- The main access roads through the site shall be either paved or stabilized using soil binders, or equivalent methods, to provide a stabilized surface that is similar for the purposes of dust control to paving, that may or may not include a crushed rock (gravel or similar material with fines removed) top layer, prior to commencing construction. Delivery, laydown, and staging areas for construction or operations and maintenance supplies shall be paved or stabilized prior to taking initial deliveries.
- Grading and earthwork activities, including vegetation removal, cut and fill movement, and soil compacting, shall be phased across the site to minimize the amount of exposed or disturbed area on any single day.
- No vehicle shall exceed 15 miles per hour on unpaved areas within the site, with the exception that vehicles may travel up to 25 miles per hour on stabilized unpaved roads as long as such speeds do not create visible dust emissions or conflict with other permit conditions.
- Visible speed limit signs shall be posted at the construction site entrances.
- All construction equipment vehicle tires shall be inspected and washed as necessary to be cleaned free of dirt prior to entering paved roadways.
- All unpaved exits from the construction site shall be graveled or treated to prevent track-out onto public roadways. No person shall allow track-out to extend 25 feet or more in cumulative length from the point of origin from an active operation. All track out from an active operation shall be removed immediately if it extends over 25 feet or if under 25 feet, at the end of each workday.
- All paved roads within the construction site shall be swept daily or as needed (less during periods of precipitation) on days when construction activity occurs to prevent the accumulation of dirt and debris.
- At least the first 500 feet of any paved public roadway exiting the construction site or exiting other unpaved roads to access the construction site or staging areas shall be swept as needed when dirt or runoff resulting from the construction activities is visible on the paved public roadway.
- Consistent with SCAQMD Rule 403(g)(2), regarding exemptions, contingency control measures may be implemented during "high wind" conditions, when instantaneous wind speeds exceed 25 miles per hour. The contingency measures for high wind events shall include: Cease all active operations; Stop all vehicular traffic; Apply water to soil not more than 15 minutes prior to moving such soil; Apply chemical stabilizers prior to wind event; and/or Apply water to all unstabilized disturbed areas 3 times per day,

unless there is evidence of wind driven fugitive dust, then increase watering frequency to a minimum of four times per day.

MM AQ-2 Control On-Site Off-Road Equipment Emissions. The Project owner, when entering into construction contracts or when procuring off-road equipment or vehicles for on-site construction or O&M activities, shall ensure that only new model year equipment or vehicles are obtained. The following measures shall be included with contract or procurement specifications:

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- All construction diesel engines not registered under California Air Resources Board's Statewide Portable Equipment Registration Program, with a rating of 50 hp or higher shall meet the Tier 4 California Emission Standards for Off-Road Compression-Ignition Engines, as specified in California Code of Regulations, Title 13, section 2423(b)(1), unless a good faith effort demonstrates that such engine is not available for a particular item of equipment. In the event that a Tier 4 engine is not available for any off-road equipment larger than 50 hp, a Tier 3 engine shall be used or that equipment shall be equipped with retrofit controls to reduce exhaust emissions of nitrogen oxides (NOx) and diesel particulate matter (DPM) to no more than Tier 3 levels unless certified by the engine manufacturers that the use of such devices is not practical for specific engine types.
- All diesel-fueled engines used in the construction of the facility shall have clearly visible tags showing that the engine meets the standards of this measure.
- All equipment and trucks used in the construction or O&M of the facility shall be properly maintained and the engines tuned to the engine manufacturer's specifications.
- All diesel heavy construction equipment shall not idle for more than five minutes. Vehicles that need to idle as part of their normal operation (such as concrete trucks) are exempted from this requirement.

3.5. Biological Resources

This section describes the biological resources of the proposed Project site and vicinity, including vegetation and habitat, common and special-status plants and wildlife, and jurisdictional waters. In addition, this section identifies applicable federal, local, and state laws and regulations regarding biological resources. It identifies the criteria used to evaluate the significance of potential impacts on biological resources, the methods used in evaluating these potential impacts, and an analysis of potential impacts. Where impacts may be significant according to the criteria identified, this section identifies mitigation measures to reduce those impacts to less than significant.

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The Project is located on both private and public lands (Figures 3.5-1 and 3.5-2 in EIR Appendix A). Public lands within the Project solar application area are managed by the U.S. Bureau of Land Management (BLM) and include lands designated as Development Focus Area (DFA) by the Desert Renewable Energy Conservation Plan (DRECP) and associated Record of Decision (ROD) (BLM, 2016a). Lands within DFAs have been targeted for renewable energy development. The Project site is situated between Desert Harvest Solar Facility (operational), Oberon Renewable Energy Project (operational), and Sapphire Solar Project (proposed).

3.5.1. Environmental Setting

The description of the biological resources on the proposed Easley Renewable Energy Project site is based on the Biological Resources Technical Report (BRTR) and the Jurisdictional Waters Report prepared by Ironwood Consulting Inc. (Ironwood, 2023a<u>4</u> and 2023b). The full BRTR and Jurisdictional Waters Report are attached to this EIR as EIR Appendices C and F, respectively. The description also references biological resources found on the Oberon Project site, where the proposed Easley gen-tie line is located (Ironwood, 2021a and 2021b).

The BRTR includes a literature review of special-status biological resources reported by the CNDDB, USFWS, and CNPS, and a description of plant and wildlife surveys performed for the Project. Wildlife surveys were conducted between October 2019 and June 2022. Wildlife surveys conformed to full coverage desert tortoise protocol surveys with 10-meter transects on the Project site (USFWS, 2019<u>a</u>). The Jurisdictional Waters Report is discussed further in Section 3.5.1.2.

The Project site is located in the central portion of chuckwalla Valley, east of Palm Springs in the Colorado Desert. The Project site is within the Chuckwalla Valley ecoregion subsection of the DRECP area. The elevation of Chuckwalla Valley ranges from less than 400 feet (122 meters) above mean sea level (amsl) at Ford Dry Lake to approximately 1,800 feet (549 meters) amsl west of Desert Center and along the upper portions of the alluvial fans that surround the valley perimeter. The surrounding mountains rise to over 3,000 feet (92 meters) amsl. The topography of the Project site generally slopes downward toward the northeast at a gradient of less than 1 percent. Ground surface elevations at the Project site range from approximately 800 feet (244 meters) amsl in the southwest and 550 feet (168 meters) amsl in the northeast.

The Chuckwalla Valley is a region of active aeolian (wind-blown) sand migration and deposition. Aeolian processes play a major role in the creation and establishment of sand dune formations and habitat in the Chuckwalla Valley and those within the Project vicinity. Aeolian sands (dunes, sand fields, and similar habitats) are important habitats for certain plants and animals, including Mojave fringe-toed lizard, a special-status species. The areas of sand transport corridors are not fixed in time or space, as they can expand, contract, or migrate with changing weather and climate.

The eastern half of the Project site is characterized as modern alluvial fan deposits consisting of unconsolidated to slightly consolidated sand and gravel that is considered an active aeolian source (Ironwood, 2023a<u>4</u>). In the northernmost Project site, a small portion of the site is an active aeolian source. No aeolian sand deposits are mapped on the Project site. The western portion of the Project site was not characterized as an active aeolian area (Ironwood, 202<u>4</u>3a). Project areas may be parts of sand transport corridors, where habitat for sensitive wildlife and plant species may be present.

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The Project site overlaps the Pinto Wash Linkage area as defined in the DRECP Land Use Plan Amendment (LUPA). The Project site is outside of but adjacent to desert tortoise critical habitat (in a Tortoise Conservation Area (TCA)), which is located approximately 0.8 mile west of Kaiser Road, extending to the west into Joshua Tree National Park and to the south, south of the Interstate 10 (I-10) freeway into the Chuckwalla Mountains (Figure 3.5-1). The gen-tie line (up to 7 structures) would cross desert tortoise critical habitat and a DRECP multi-species linkage that overlaps the Oberon Project site, south of BLM Open Route DC 379, to interconnect to the Oberon SubstationSwitchyard. Impacts on critical habitat are evaluated in Impact BIO-1 and the Final EIR for the Oberon Project (RWQCB, 2021).

The Alligator Rock Area of Critical Environmental Concern (ACEC) is approximately 3 miles south of the Project site and the Desert Lily Preserve ACEC is approximately 4 miles east of the Project site. The closest Joshua Tree National Park boundary is located approximately 4 miles northeast of the Project site (Figure 3.5-1).

Anthropogenic features and land use near the Project site include fallow and active agricultural, aquaculture farms, trash dumping, rural residential, renewable energy, energy transmission, historical military operations, recreational development.

Ironwood Biologists performed biological resources surveys between October 2019 and June 2022, including all proposed solar facility sites and gen-tie routes (see BRTR, EIR Appendix C).

3.5.1.1. Vegetation and Habitat

The term habitat refers to the environmental and ecological conditions where a species is found. Wildlife habitat is generally described in terms of vegetation, though a more thorough explanation includes availability or proximity to water; suitable nesting or denning sites; shade; foraging perches; cover sites to escape from predators; soils that are suitable for burrowing or hiding; limited noise and disturbance; or other factors that are unique to each species. Vegetation reflects many aspects of habitat, including regional climate, physical structure, biological productivity, and food resources (for many wildlife species). Thus, vegetation is a useful overarching description for habitat, and it is one of the primary factors in the assessments of habitat suitability presented in this section, as well as the analysis of potential impacts to wildlife habitat presented in Section 3.5.5. Where additional details of habitat suitability are necessary, they are provided in the discussion of special-status wildlife species below.

One vegetation community, desert dry wash woodland, is identified by BLM and as sensitive due to the association with alluvial processes (Ironwood, 2023a<u>4</u>). Vegetation communities on the Project site are shown in Figure 3.5-2.

Public Parcels

The public parcels on the Project site mostly consist of creosote bush scrub with desert pavement or desert dry wash woodland communities intermixed.

Sonoran Creosote Bush Scrub. Sonoran creosote bush scrub occurs on well-drained, secondary soils of slopes, fans, and valleys and is the basic creosote bush scrub habitat of the Colorado Desert (Ironwood, 2023a<u>4</u>). Sonoran creosote bush scrub covers most of the Project site and intergrades with desert dry wash woodland along desert washes. <u>Sonoran creosote bush scrub provides suitable habitat for the state and federally listed desert tortoise.</u> Within the Project site, this community occurs on sandy soils with a shallow clay pan.

Desert Dry Wash Woodland. Desert dry wash woodland (DDWW) is a <u>BLM</u> sensitive vegetation community and is -recognized with a <u>state</u> rarity rank of S4 (CDFW, 202<u>3a</u>2). <u>This community is synonymous with</u> <u>blue palo verde</u> (*Parkinsonia florida*) ironwood (*Olneya tesota*) (microphyll) woodland alliance (Sawyer et al. 2009) and Sonoran -Coloradan Semi Desert Wash Woodland/Scrub (NVCS). <u>Natural communities with</u> <u>a rank of S4</u> are considered sensitive and apparently secure; uncommon, but not rare in the state, with some cause for long-term concern due to declines or other factors.

Desert dry wash woodland is a xeric riparian community characteristic of desert washes and is likely to be regulated by the California Department of Fish and Wildlife (CDFW) as jurisdictional State waters. The DRECP includes it as one of the microphyll woodland communities. The terms DDWW and microphyll woodland are used interchangeably throughout this EIR. DDWW is open to relatively densely covered, drought-deciduous, microphyll (small compound leaves) riparian scrub woodland, often supported by braided wash channels that change following every surface flow event and dominated by an open tree layer. Within the Project site, this vegetation community is dominated by an open tree layer of ironwood, with occasional blue palo verde.

This habitat provides greater opportunities for food, nesting, and cover, and its wildlife diversity is generally greater than in the surrounding desert. <u>Desert dry wash woodlands and the associated seasonal washes</u> <u>transport water, seeds, and other nutrients to downstream desert ecosystems (CNPS, 2018).</u> Many of the species occupying the surrounding upland desert shrublands are found in greater numbers in microphyll woodlands. <u>While microphyll woodlands comprise five percent of the acreage in the Sonoran Desert, they</u> <u>account for 95 percent of the habitat for migrating birds (CNPS, 2018; Audubon, 2024). Migrants diffuse</u> <u>across the desert following wet winters when food sources are plentiful; dry conditions constrict them to</u> <u>more productive sites such as the Colorado River and major wash systems (Audubon, 2024). The associated ironwood trees are endemic to the Sonoran Desert and are considered keystone species that benefit many other plant and wildlife species (Arizona-Sonora Desert Museum, 2000).</u>

Within the Project site, DDWW occurs on mostly the western portion of the site, with several ribbons of desert dry wash woodland interspersed between creosote bush scrub.

Desert Pavement. Desert pavement is not descriptive of vegetation, but rather a geomorphic condition that results in tightly interlocking gravel and pebbles which develop over time on fluvially inactive upland areas within stabilized alluvial fans (Ironwood, 2023a<u>4</u>). It has a state rarity rank of S4 (CDFW, 2022). The substrates are train typically sparsely vegetated with an intermittent layer of cryptogamic crust. The ground surface is sandy and gravelly mixed alluvium with various rocks and gravel.

The surface of desert pavement has a strong impact on water infiltration, regulating water resources, retaining soil moisture, and supplying water for vegetation growth (Wang et al., 2020; Kaseke et al., 2012).

Within the Colorado desert, stands are common in the valleys, often found within creosote bush scrub and often associated with the sensitive, but not rare, vegetation alliance described as rigid spineflower (*Chorizanthe rigida*)-hairy desert sunflower (*Geraea caenscens*) sparsely vegetated alliance, with a state rarity rank of S4 (Ironwood, 2024). On the Project site, rigid spineflower does not occur, so the sensitive vegetation alliance is not fully met. Nonetheless, this EIR treats the desert pavement with hairy desert sunflower community present on the Project site as a sensitive community. On the Project site, desert pavement is Desert pavement is often interwoven between areas of creosote bush scrub and desert dry wash woodland where it occurs on the Project site, and primarily occurs on the western portion of the Project site on BLM lands. Desert pavement is also discussed in EIR Section 3.8 (Geology, Soils, and Mineral Resources).

Wetland and Riparian Vegetation. Two wetlands were identified on the Easley Project site (Figure 3.5-3). One wetland, created from drainage from the aquaculture farm, is generally in the center of the Project site, on a private parcel. Most of the wetland is outside the Project area boundary. The second wetland is

created from drainage from adjacent agricultural activity that allows water to drain through the wetland area into a pond area with no outlet. Two areas of invasive tamarisk (*Tamarix ramomissima*) were also identified (Figure 3.5-3). The drainage from the aquaculture farm and agricultural activity provides supportive soil conditions for the establishment of tamarisk. See Impact BIO-5 in Section 3.5.5 for a discussion of wetlands and jurisdictional waters on the Project site.

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Private Parcels

The private parcels consist of primarily man-made features that include deciduous orchard/fallow agriculture or developed areas. Private parcels in 2 locations support native vegetation communities, including creosote bush scrub and/or desert dry wash woodland.

Gen-tie Line

The gen-tie line crosses the adjacent Oberon Project site, which became operational in fall 2023. The Oberon Project site consists of similar vegetation communities, including creosote bush scrub with interspersed desert pavement and desert dry wash woodland.

3.5.1.2. Jurisdictional Waters

Ironwood delineated jurisdictional waters on the proposed Easley Project site, using desktop GIS analysis and field investigations in April, May, and June 2022. Jurisdictional waters on the Oberon site, where the Easley gen-tie line would be located, were surveyed in May 2020 (Ironwood, 2021b).

Prior to conducting delineation fieldwork, preliminary investigations consisted of identifying aquatic land surface features within the Project site. Areas with potential aquatic resource landform features were identified for follow-up detailed field investigations. Surveys were conducted between April 5 and April 27, 2022. Data for ephemeral washes and vegetation mapping were collected between May 23 and June 18, 2022. Surveys on the Oberon site were conducted between May 22-30, 2020. Field investigations evaluated all linear water features for OHWM (Ordinary High-Water Mark) indicators to assist with delineation of the lateral extents of waters. Surveyors recorded OHWM indicators associated with the primary low-flow channel and floodplain at representative cross-sections.

Desert washes within this region are almost always dry but contract and expand dramatically in size due to extreme variations in flows, which can range from high-discharge floods to extended periods when surface flow is absent. The Project site lies between the alluvial fans emanating from the Eagle Mountains to the west, Chuckwalla Mountains to the south, and Coxcomb Mountains to the north. Alluvial processes across the Project site generally flow from southwest to northeast. Agricultural practices and developments such as the I-10 freeway and CA-177, have greatly modified natural hydrology.

The Easley Project site is situated on a low-gradient alluvial plain and is intersected by numerous unnamed ephemeral drainages that flow northeast toward Big Wash, near the confluence with Pinto Wash. Big Wash is shown as an intermittent blueline stream on USGS topographic maps and is identified as an intermittently flooded riverine system by USFWS NWI (Ironwood, 2023b). Potential jurisdictional aquatic resources are discussed below and shown in Figure 3.5-3. The detailed Jurisdictional Waters Report is attached to this EIR as Appendix F (Ironwood, 2023b).

Waters of the United States

Jurisdictional waters of the U.S. defined in the Clean Water Act (CWA) include interstate waters such as lakes, rivers, streams (including intermittent streams) and their tributaries, but exclude ephemeral channels. In the case of intrastate waters (i.e., the ephemeral or intermittent drainage channels on the

site), federal jurisdiction as waters of the U.S. applies only where degradation or destruction could affect interstate or foreign commerce.

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The Project site is located within the Colorado River Hydrologic Region (HR), in the Big Wash and Hayfield Lake-Lake Tamarisk HUC 10 Hydrologic Areas, which flow to closed basins, not connected with the Colorado River or other traditional navigable waters (TNW). Palen Dry Lake and Ford Dry Lake represent the lowest elevations within the basin.

The U.S. Army Corps of Engineers (USACE) has determined that no jurisdictional waters of the U.S. were found within other projects in the same basin (Desert Sunlight, Desert Harvest, and Palen Solar Projects). Given the absence of a nexus to waters of the U.S., the aquatic resources in the Project site are potentially not subject to federal jurisdiction under CWA Section 404 and Section 401.

Public & Private Parcels. Aquatic resources delineated within the Easley Project site mostly lack indicators of surface connections to Pinto Wash, an ephemeral riverine feature situated northeast of the Project site. Pinto Wash conveys flows to Palen Lake, an isolated ephemeral lake that lacks a direct or subsurface connection to a known TNW. Palen Lake and the aquatic resources within the Project site do not meet the criteria described for waters of the U.S.

Gen-tie Line. The gen-tie line through the Oberon Project site is within a closed surface hydrology basin that drains to Ford Dry Lake that is not connected to the Colorado River or other traditional navigable waters. It does not meet the criteria described for waters of the U.S.

Waters of the State

Jurisdictional waters of the State are defined more broadly than waters of the U.S., to include "any surface water or groundwater, including saline waters, within the boundaries of the state" (Cal. Water Code § 13050(c)]). No surface connection to larger water bodies is required under the State definition. The CDFW regulates alterations to state-jurisdictional waters under Section 1600 et seq. of the California Fish and Game Code. Jurisdictional acreage is interpreted as the bed and banks of channels and adjacent riparian vegetation.

The aquatic resources in the Project site are subject to state jurisdiction under regulations administered by Regional Water Quality Control Boards (RWQCBs) and CDFW.

Public & Private Parcels. State jurisdictional streambeds and adjacent riparian habitat within the proposed Project site include Unvegetated Ephemeral Dry Wash and Desert Dry Wash Woodland. Active channels within the lower alluvial fan, where the Project is situated, showed signs of frequent avulsion (changes in flow direction following surface water flow events) due to patterns of brief, intense surface water flow. In the Chuckwalla Valley area, Desert Dry Wash Woodland is the regional riparian vegetation type and is characterized by braided wash channels that experience regular avulsion. Within the Project site, this vegetation community is dominated by an open tree layer of ironwood, with occasional blue palo verde. Due to the abundance and close spacing of braided channels throughout the area, all mapped Desert Dry Wash Woodland is adjacent to one or more channels.

Two wetland areas were identified as anthropogenic wetlands created by adjacent agricultural activities, from artificial water sources and berms. These areas met all three criteria for a wetland and are categorized as palustrine, emergent wetlands.

Gen-tie Line. State jurisdictional streambeds and adjacent riparian habitat along the gen-tie line through the Oberon Project site include Unvegetated Ephemeral Dry Wash and Desert Dry Wash Woodland.

3.5.1.3. Special-status Plants

Ironwood Consulting conducted focused special status plant surveys in the Easley Project site between fall 2019 and spring 2022. Surveys along the gen-tie line in the Oberon Project site were conducted between fall 2019 and Spring 2020. The field methods were consistent with protocols recommended by USFWS, CDFW, and California Native Plant Society (CNPS). The BRTR provides a compilation of specialstatus plants with potential to occur on the Project site, and evaluates probability of occurrence for each species based on habitat, elevational and geographic ranges, and field survey results. The complete methods and results of the surveys are provided in the BRTR (EIR Appendix C).

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In this analysis, special-status plants include those species classified as one or more of the following:

- Listed, proposed for listing, or candidates for listing as threatened or endangered under the federal Endangered Species Act (ESA);
- Listed as threatened or endangered, or candidates for listing under the California Endangered Species Act (CESA), or listed as rare under the California Native Plant Protection Act;
- Designated by BLM as Sensitive Plants: "all plant species that are currently on List 1B of the CNPS Inventory of Rare and Endangered Plants of California, are BLM Sensitive Species, along with others that have been designated by the California State Director" (note that the CNPS Lists are now known as California Rare Plant Ranks, or CRPR);
- Meet the definition of rare or endangered under CEQA Section 15380 subdivisions (b) and (d). For this report, this is generally interpreted as all plants ranked as California Rare Plant Rank (CRPR) 1b and, in some cases, may include CRPR 2, 3, or 4 plant occurrences, which may be regionally significant if the occurrence is located at the periphery of the species' range, or exhibits unusual morphology, or occurs in an unusual habitat/substrate; therefore, all CRPR 1, 2, 3, and 4 plants are addressed here; and
- Considered special-status species in local or regional plans, policies, or regulations, such as the Northern and Eastern Colorado Desert Coordinated Management (NECO) Plan/EIS.

Special status species detected within the Project site or having moderate to high potential to occur based on the presence of suitable habitat are discussed below (Figure 3.5-4)- and species with low potential to occur due to lack of suitable habitat are briefly described. For complete lists and discussion of all special-status plants analyzed for the Project, please refer to the BRTR (EIR Appendix C).

No listed threatened or endangered plant species were observed or have the potential to occur on the Project site or in the vicinity.

Public & Private Parcels

Harwood's milkvetch (Astragalus insularis var. harwoodii); CRPR 2B.2. Harwood's milkvetch occurs in sandy or gravelly desert dunes and Mojavean desert scrub. It occurs at less than 500 m amsl in Southern California, and into Arizona and northwestern Mexico. In the vicinity of the Project, occurrences are documented primarily south of the I-10 freeway (CNPS, 2024). Suitable habitat is present, but it was not observed on the Project site.

Emory's crucifixion thorn (*Castela emoryi***); CRPR 2B.2.** Emory's crucifixion thorn is uncommon but widespread in broad sandy wash habitat in the area. In Riverside County, several records are near or within Desert Center, including Desert Sunlight Solar Farm north of the Project site, Athos Solar Project, Oberon Renewable Energy Project, and Arica Solar Project (Ironwood, 2023a<u>4</u>). There is suitable habitat for crucifixion thorn within wash areas of the Project site. One individual was observed along the northern boundary of the Project site on public lands. No additional occurrences on the Project site are expected

because it is a large conspicuous shrub and can be identified at any time of year, even in a year of poor rainfall, and is not easily overlooked.

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Desert unicorn-plant (*Proboscidea althaeifolia***); CRPR 4.** Desert unicorn plant has limited distribution but is not very threatened in California. It is a low-growing, perennial species that occurs in sandy washes within Sonoran Desert scrub vegetation in San Bernardino, Imperial, Riverside, and San Diego counties of California. It is a late-season bloomer (May to August) but has large and distinctive seed pods that can be detected during the spring season and fleshy root structure that can remain dormant in dry years (Ironwood, 2023a4). Suitable habitat occurs within the Project site; it was observed in 224 locations, primarily in desert dry wash woodland in the southern half of the site.

California Ditaxis (*Ditaxis serrata var. californica***); CRPR 3.2.** California ditaxis occupies Sonoran Desert scrub vegetation and prefers sandy washes and alluvial fans of the foothills and lower desert slopes, from 100 feet (31 meters) to 3,000 feet (915 meters) amsl. It is known to occur in San Bernardino, Riverside, Imperial, and San Diego counties of California and in Sonora, Mexico (Ironwood, 2023a4). It occurs in the Project site and was recorded at 43 locations, primarily in the central portion of the Project site along Project boundaries.

Utah Milkvine (*Cynanchum utahense* [=*Funastrum utahense*]); **CRPR 4.2.** Utah milkvine occurs in sandy, gravelly Mojavean desert scrub. Utah milkvine has records primarily from San Bernardino and San Diego counties, but there are also several records in Riverside County. There is one record of this species north of Desert Center and another record southwest of Palen Lake. Suitable habitat exists throughout the Project site and one individual was observed on the east side of the Project along the CA-177.

Glandular Ditaxis (*Ditaxis claryana***); CRPR 2B.2.** Glandular ditaxis occurs in Sonoran Desert scrub and blooms in the fall following the start of the rainy season. Among 49 occurrences, there is one record within Desert Center and another near Corn Spring, south of I-10 (Ironwood, 202<u>4</u>3a). Suitable habitat occurs within the Project site, but it was not observed.

Las Animas Colubrina (Colubrina californica); CRPR 2B.3. Las Animas Colubrina is native to the Sonoran Desert in the southern United States and northern Mexico. It is found in desert scrub habitat between 24—0--920 m amsl. In the vicinity of the Project, occurrences are primarily located in the mountains to the west and south, and are absent in the valley floor (CNPS, 2024). Marginally suitable habitat is present, but it was not observed on the Project site.

Spiny Abrojo (*Condalia globose var. pubescens***); CRPR 4.3.** Spiny abrojo has limited distribution but is not very threatened in California and can also be found in Arizona and Mexico. It occurs in desert scrub primarily in the Sonoran Desert. It occurs only in Imperial and Riverside counties, with the closest record within the Oberon Renewable Energy Project (Ironwood, 2023a<u>4</u>). Suitable habitat occurs within the Project site, but it was not observed.

Argus blazing star (Mentzelia puberula); CRPR 2B.2. Argus blazing star occurs in sandy or rocky Mojavean desert scrub, Sonoran desert scrub, and desert mountains between 90 to 1,280 m amsl). It is found in Imperial, Riverside, and San Bernardino Counties, and into southern Nevada, Arizona, and Mexico. In the vicinity of the Project, an occurrence is located along Rice Road, northeast of the Project area near Joshua Tree National Park (CNPS, 2024). Suitable habitat is present, but it was not observed on the Project site.

Protected Desert Native Plants. While native cacti, succulents, and trees are generally not ranked as special-status plant species, the harvesting of these plants is regulated through the NPPA and CDNPA, as described in Section 3.5.2. Cacti and native trees were observed in the Project area, including barrel cactus, beavertail cactus, cottontop cactus, Engelmann's hedgehog cactus, fishhook cactus, ocotillo, desert ironwood, blue palo verde, honey mesquite, and smoke tree (Ironwood, 2024).

Species with low potential to occur. The following species were determined to have low potential to occur due to lack of suitable habitat or lack of known records near the project area.

- Chaparral sand verbena (Abronia villosa var. aurita)
 California satintail (Imperata brevifolia)
- Angel trumpets (Acleisanthes longiflora)
- Desert sand parsley (Ammoselinum giganteum/ Spermolepis gigantea)
- Small-flowered androstephium (Androstephium) breviflorum)
- Coachella Valley milkvetch (Astragalus lentiginosus) var. coachellae)
- California ayenia (Ayenia compacta)
- Pink fairy duster (Calliandra eriophylla)
- Sand evening-primrose (Chylisimia [Camissonia] arenaria)
- Abram's spurge (Chamaesyce abramsiana)
- Arizona spurge (Chamaesyce arizonica)
- Flat-seeded spurge (Chamaesyce platysperma)
- Foxtail cactus (Coryphantha alversonii)
- Ribbed cryptantha (Cryptantha costata)
- Winged cryptantha (Cryptantha holoptera)
- Wiggins' cholla (Cylindropuntia wigginsii)
- Cottontop cactus (Echinocactus polycephalus var. polycephalus)

- Pink velvet mallow (Horsfordia alata)
- Bitter hymenoxys (Hymenoxys odorata)
- Spearleaf (*Matelea parvifolia*)
- Slender wooly heads (Nemacaulis) *denud*3.5-8efract3.5-8ata var. gracilis)
- Narrow-leaved sandpaper plant (*Petalonyx linearis*)
- Lobed cherry (*Physalis lobata*)
- Desert portulaca (*Portulaca halimoides*)
- Orocopia sage (Salvia greatae)
- Desert spikemoss (Selaginella eremophila)
- Cove's cassia (Senna covesii)
- Mesquite nest straw (Stylocline sonorensis)
- <u>Dwarf germander (Teucrium cubense ssp.</u> depressum)
- Jackass clover (Wislizenia refracta ssp. refracta)
- Palmer's jackass clover (Wislizenia refracta ssp. palmeri)
- <u>"Palen Lake atriplex" (Atriplex sp. nov. J. Andre)</u> (Atriplex canescens var. macilenta)

For complete lists and discussion of all special-status plants analyzed for the Project, refer to the BRTR (EIR Appendix C).

Gen-tie Line

Along the gen-tie line through the adjacent Oberon Project site, desert unicorn-plant and spiny abrojo was were observed. Other special-status plants species previously discussed have suitable habitat along the gen-tie line, but were not observed. In addition to the protected desert native plants listed above, catclaw acacia (Senegalia greggii) was observed on the Oberon Project site. Emory's crucifixion thorn and creosote rings were was not present on the site, but were not observed near the Easley gen-tie line (Ironwood, 2021a).

Special-status Wildlife 3.5.1.4.

Ironwood Consulting conducted full-coverage wildlife surveys in the Project area between fall 2019 and summer 2022. Surveys of the Oberon Project site, where the gen-tie line is located, were performed between fall 2019 and summer 2020. Surveys were performed focusing on protocols for desert tortoise and burrowing owl. Wildlife surveys conducted in 2019-2022 conformed to full coverage desert tortoise protocol surveys with 10-meter transects on the Project site (Ironwood, 2023a4; Ironwood, 2021a). Wildlife surveys were repeated for each site at 20-meter belt transects, consistent with 2012 CDFW burrowing owl protocol surveys. The surveys identified all burrows and all evidence of wildlife use, including use by desert tortoise, burrowing owl, and desert kit fox. During all wildlife surveys, biologists recorded all wildlife species observed, regardless of status. The BRTR provides a compilation of specialstatus wildlife with potential to occur in the Project vicinity and evaluates probability of occurrence for each species based on habitat, elevational and geographic ranges, and field survey results. The complete methods and results of the surveys are provided in the BRTR (EIR Appendix C).

Special-status species detected within the Project site or having moderate to high potential to occur based on the presence of suitable habitat are discussed below. These species are considered to have potential to occur on public and private parcels and along the gen-tie line.

7-9

Insects

Crotch bumble bee (Bombus crotchii); SC. Crotch bumble bee is proposed as a candidate for State listing under CESA. It primarily occurs in southwestern California, with only a few records from Nevada and Mexico. In California it occurs along the coast and in western deserts and foothills between San Diego and Redding. It inhabits grasslands and shrublands with preferred foraging plants. They are generalist foragers and have been associated with plants in the Fabaceae, Apocynaceae, Lamiaceae, Hydophyllaceae, Asclepiadoideae, and Asteraceae families (Ironwood, 2023a<u>4</u>). They have also been observed using plants Asclepias, Chaenactis, Lupinus, Meicago, Phacelia, and Salvia, as food (Ironwood, 2023a<u>4</u>). Nests are often located in underground burrows in abandoned rodent nests, or above ground in tufts of grass, old bird nests, rock piles, or cavities in dead trees.

The Project site is located east of the current range of Crotch bumblebee (CDFW, 2023b) and is outside the historic range, except for a southeastern portion of the gen-tie line that overlaps with the Oberon Solar Project (Figure 3.5-12). Nearest records to the Project site include a record near Corn Springs in 1993 and Palm Springs in 1954 (Ironwood, 2023a4). There are more recent records on the western side of Riverside County, west of Palm Springs (Ironwood, 2023a4). Suitable habitat occurs for Crotch's bumble bee on the Project site since some of the plant families and genera associated with them also occur. However, the active agriculture and developments adjacent to the Project site could lower the habitat suitability with their potential use of pesticides. No Crotch's bumble bees were observed during surveys.

Monarch butterfly (Danaus plexippus); FC. The monarch butterfly is a candidate for federal listing under the ESA. While ESA candidate species have no legal protection (USFWS and NMFS, 1998), they may be present in the Project area.

Monarchs exhibit long-distance migration and migratory monarchs in the western population primarily overwinter in groves along the coast of California and Baja California, roosting in eucalyptus, Monterey pines, and Monterey cypress trees. Overwintering habitats provide protection from the elements and moderate temperatures in proximity to nectar and water sources (USFWS, 2022).

Adult monarchs feed on nectar from a variety of flowers, which is needed for adults throughout the breeding season, migration, and overwintering; however, reproduction depends on presence of milkweed, which is the only food source for larvae (USFWS, 2022).

Breeding habitat typically consists of open areas, fields, and roadside areas where a diversity of suitable blooming nectar sources and milkweed are present. In western North America, nectar and milkweed resources are often associated with riparian corridors, and milkweed may function as the principal nectar source for monarchs in more arid regions (USFWS, 2020b). During migration to overwintering sites, most monarchs are in reproductive diapause, but continue to need blooming nectar plants distributed throughout the migratory landscape.

Monarch butterfly was incidentally observed on the Project site. The species may migrate through the Project area and feed on native flowering plants. Three species of milkweed were observed on the Project site, which may support monarch feeding or breeding. The Project site is outside the monarch's coastal overwintering range.

Amphibians and Reptiles

Couch's spadefoot toad (*Scaphiopus couchii***); SSC, BLMS.** Couch's spadefoot uses late season monsoonal rain pools for breeding, development and hatching of eggs into tadpoles and then juvenile toads. Its

geographic range is the eastern part of the California desert, where monsoon rains and lowland topography provide suitable breeding pools. It requires rain pools that hold water long enough for the eggs and tadpoles to develop, and then disperse into surrounding habitat.

7-9

The Project site is located east of the current range of Crotch bumblebee (CDFW, 2023). Documented records of this species, nearest to the Project, occur within approximately two miles of the Project site. Couch's spadefoot toad was not observed, but potential suitable breeding habitat is present within the Project site in areas where water accumulates, generally along the margins of public and private parcels. Nineteen data points were documented on the Easley Project site throughout all survey periods as potential breeding habitat where water may accumulate after rainfall or where human activities create perennial water sources (Figure 3.5-5). Several data points are along a channel with wetlands and areas of open water created on private lands from drainage from the aquaculture farm.

There is no suitable Couch's spadefoot toad habitat along the gen-tie line.

The potential for Couch's spadefoot toad to occur on the Project is expected to be low. Future surveys will occur opportunistically during summer months of May through September when sufficient rainfall in warmer temperatures allow for breeding to determine occupancy (Ironwood, 2023a4).

Desert tortoise (*Gopherus agassizii***); SFE**, **FT.** Mojave desert tortoises live north and west of the Colorado River in the Mojave Desert of California, southern Nevada, northwestern Arizona, and southwestern Utah, and in the Sonoran (Colorado) Desert in southern California. Desert tortoises inhabit a variety of habitats from flats and slopes dominated by creosote bush – white bursage communities, where a diversity of perennial plants is relatively high, to a variety of habitats in higher elevations. Soils must be appropriately soft for digging burrows, but firm enough so that burrows do not collapse. Tortoises typically prefer habitats with abundant annual forbs, grasses, and cactus, which constitute its primary food sources (Ironwood, 2023a<u>4</u>).

Trends in regional and range-wide adult Mojave desert tortoise densities show large, ongoing population declines since 2004. Only one in five critical habitat recovery units exhibited population increases between 2004 and 2014 (USFWS, 2014; USFWS, 2015). In the Colorado Desert recovery unit, abundance declined 36% between 2004 and 2014 (USFWS, 2015, 2017, 2021), while in the Chuckwalla CHU, abundance declined 37% (USFWS, 2015). Allison and McLuckie (2018) note that the proportion of juveniles has not increased in any recovery units since 2007. As of 2014, small desert tortoises were not moving into the large cohort at a rate that was sufficient to reverse declines (USFWS, 2021).

Nussear et al. 2009 includes a model for the statistical probability of desert tortoise occurrence, and since publication it has continued to be a reliable tool in determining the likelihood for tortoise occupancy across the historical range of the species. The model provides a geographic representation of predicted occupancy ranging from very low (0.0) to very high (1.0). Various analyses of desert tortoise have used a model value of ≥ 0.5 as denoting the threshold for suitable habitat for desert tortoise (Ironwood, $202\frac{3a4}{2}$). Conversely, lands that score < 0.5 have a low to moderate probability of desert tortoise occupancy.

Desert tortoise habitat has lower predicted occupancy levels in the northernmost portion of the Easley Project site (0 to 0.2) and increases toward the south, with the highest <u>predicted</u> occupancy levels of 0.5-0.6 in the southwest portion of the Project site (Nussear et al., 2009) (Figure 3.5-5). The areas with higher occupancy levels are also closest to desert tortoise conservation areas. These predicted occupancy values do not account for habitat degradation resulting from existing anthropogenic features (Nussear et al., 2009), which would further reduce the occurrence probability in disturbed areas.

Desert tortoise sign observed during field surveys were consistent with the predicted occupancy model, with all the observed sign occurring in areas with occupancy values of 0.3 or higher. Most of the desert tortoise sign was concentrated within the southwest portion of the Easley Project site. No live desert tortoises or active sign were documented. Nine locations of tortoise carcasses were observed, most of

which were characterized by shell bones falling apart and growth rings on scutes peeling (class 4) or disarticulated bones or scutes more than 4 years old (class 5) (Ironwood, 2023a4).

7-9

Along the gen-tie line, in the eastern portion of the Oberon Project site, desert tortoise tracks, burrows, and carcasses have been observed in desert dry wash woodland (Ironwood, 2021a).

The solar facilities on the Easley Project site do not overlap with critical habitat for desert tortoise. Critical habitat within the Chuckwalla Desert Tortoise CHU, which is encompassed under Tortoise Conservation Areas (TCAs), is located adjacent to the Project site across Kaiser Road to the west (Figure 3.5-1). The gentie line (up to 7 structures) would cross desert tortoise critical habitat in the southeastern portion of the adjacent Oberon Project site (RWQCB, 2021; Ironwood, 2021a).

Birds

Western burrowing owl (Athene cunicularia hypugaea); SSC, BCC, BLMS. Five California populations (Evolutionary Significant Units (ESUs)) of western burrowing owl are proposed as candidate for State listing under CESA: Southwestern California ESU, Western California ESU, and San Francisco Bay Area ESU were proposed endangered under CESA; Central Valley ESU and Southern Desert Range ESU were proposed as threatened under CESA. In August 2024, CDFW released the Petition Evaluation for western burrowing owl (CDFW, 2024) and determined that there is sufficient scientific information to indicate that listing of the species as threatened or endangered under CESA may be warranted. CDFW recommended that the California Fish and Game Commission accept the petition for listing for further consideration.

Burrowing owls inhabit sparsely vegetated open fields and grasslands with low stature vegetation and bare ground. that support their food supply and allow them to see predators. Burrowing owls are unique among the North American owls in that they nest and roost in abandoned burrows, especially those created by ground squirrels, coyotes, kit fox, badgers, skunks, kangaroo rats, and desert tortoise, and other wildlife. Burrowing owls in California rely primarily upon burrows of California ground squirrel (*Otospermophilus beecheyi*) throughout most of the state; and Mohave ground squirrel (*Xerospermophilus mohavensis*) in the Mojave Desert (CBD et. al., 2024). Burrowing owls nest in loose colonies, which are spatially tied to presence of host burrowing mammals. When natural burrows are unavailable, burrowing owls will sometimes use alternative burrows such as culverts, piles of concrete slab and rubble, and concrete pipes. In California, owls will also nest in burrows in fallow agricultural fields, in margins of cultivated fields along roads or agricultural water canals, and in pastures grazed by livestock.

The southern California breeding season (defined as the time from pair bonding of adults to fledging of the offspring) generally occurs from February to August, with peak breeding activity from April through July, although in deserts this seasonality is likely to vary from year to year, depending on rainfall and prey availability. <u>After nesting season, most owls remain as year-round residents, but may move away from breeding areas. Burrowing owls prey on arthropods and small rodents, and will take a variety of prey such as reptiles, amphibians, small birds, fish, and carrion.</u>

In the Project region, burrowing owls generally occur at low densities in scattered locations, but they can be found in much higher densities near agricultural lands where rodent and insect prey tend to be more abundant. Two live individuals, both in flight, were observed during survey periods. Eight burrows with either whitewash, feathers, and/or pellets were documented (Figure 3.5-6). One burrowing owl burrow with whitewash was observed along the northern portion of the gen-tie line on the Oberon Project site (Ironwood, 2021a).

Golden eagle (*Aquila chrysaetos***): CFP, WL, BCC, BLMS.** Golden eagles generally nest in rugged, open habitats with canyons and escarpments, often with overhanging ledges and cliffs or large trees used as cover. They forage widely over open terrain, and prey primarily on rabbits and rodents but will also take other mammals, birds, reptiles, and some carrion. They breed from late January through August with peak

activity March through July. The nearest potential nesting habitat for golden eagles is located several miles to the north, northwest, and northeast of the Project site in the Coxcomb and Eagle mountains. The Project site lacks suitable nesting habitat for golden eagles. The nearest known cliff nest sites that have some potential for golden eagle use are approximately 3.5 miles from the Project site (Figure 3.5-7). The Project site supports suitable foraging habitat for golden eagles, but no golden eagles were observed during surveys of the Easley Project site. One golden eagle was observed in flight along the gen-tie line during surveys of the Oberon Project site (Ironwood, 2021a). Golden eagles could forage at the site at any time of year (e.g., locally nesting eagles could forage there during breeding season; non-nesting eagles could forage there year-round, including wintering and migratory seasons).

Prairie falcon (*Falco mexicanus***); WL, BCC.** Prairie falcon nesting and foraging habitats are similar to those of the golden eagle (above), although their principal prey differ (they tend to be ground squirrels and other small mammals, birds, and lizards). There were four observations of prairie falcon, either flying through the Project site or perched within the Project site (Figure 3.5-6). Prairie falcons were also observed along the gen-tie line. The entire Project site contains suitable foraging habitat for this species but does not have suitable nesting habitat.

American peregrine falcon (*Falco peregrinus anatum*); CFP, BCC. The American peregrine falcon was formerly listed under CESA and ESA but has been delisted under both Acts. In California, its range is primarily central to northern California, with wintering habitat located in southern California. Migrants occur along the coast and in the western Sierra Nevada in spring and fall. It is found irregularly in the southern desert region, generally during migratory and winter seasons. It nested historically in desert mountain ranges near the Colorado River and may be re-occupying this historical part of its nesting range as its populations recover. Suitable migratory or foraging habitat is present throughout the Project site, but no suitable nesting habitat is present. No American peregrine falcons were observed on the Project site during surveys or avian counts.

Elf owl (*Micrathene whitneyi***)**; **CE, BLMS, BCC.** Elf owl breeds in lowland habitats that provide cover and good nesting cavities, and winters in Mexico and southward. The Project site is near the western margin of its geographic range. Elf owls are more common and widely distributed outside of California and probably have never been common in California due to limited geographic range and generally marginal habitat. The elf owl is a secondary cavity nester (it nests in cavities of trees and cacti, generally in disused woodpecker nests). Its nesting habitat is closely correlated with nesting habitat of woodpeckers, including Gila woodpecker (below). Trees within the desert dry wash woodland habitat could provide suitable marginal habitat for nesting. Two tree cavities were observed during surveys and could be potential nesting cavities. No elf owls were observed during the survey.

Gila Woodpecker (*Melanerpes uropygialis***); CE, BLMS, BCC.** Gila woodpecker is a year-around resident across its range. It can be fairly common in Southern California along the Colorado River, and occasionally ranges west to the Desert Center or Corn Springs areas. Gila woodpeckers prefer large patches of woody riparian vegetation for nesting, but they have also been documented in various habitat types, such as desert washes and residential areas. They excavate cavity nests in large riparian trees such as cotton-woods or other species that area available, including large palo verdes, ornamental trees, or palms. Potentially suitable habitat within the Project site is found in desert washes in palo verde or ironwood trees large enough for cavity nests. The probability of this species nesting on the Project site is low since only a few palo verde trees on the site are large enough for tree cavities, and the site is near the western margin of the Gila woodpecker's range. Only two tree cavities were observed in surveys, but no live Gila woodpeckers were observed (Figure 3.5-6).

Loggerhead shrike (*Lanius ludovicianus***); SSC, BCC.** Loggerhead shrikes are uncommon year-round residents throughout much of southern California. They initiate their breeding season in February and may continue with raising a second brood as late as July. Suitable foraging and nesting habitat for loggerhead

shrike is found throughout the Project site. Twenty observations of live individuals were documented during all surveys and avian counts (Figure 3.5-6). Loggerhead shrikes were also observed in several locations along the gen-tie line.

7-9

Le Conte's thrasher (*Toxostoma lecontei*); SSC. Le Conte's thrasher is a year-round resident in the Colorado Desert, occurring in desert flats, washes, and alluvial fans with sandy or alkaline soil and scattered shrubs. Its preferred nest sites are thorny shrubs and small desert trees, and nesting rarely occurs in monotypic creosote scrub habitat or Sonoran Desert woodlands. Suitable foraging habitat for Le Conte's thrasher occurs throughout the Project site, and suitable nesting habitat occurs in the desert dry wash woodland areas of the Project site. Le Conte's thrasher was not observed during surveys of the Easley Project site. One Le Conte's thrasher was observed in the vicinity of the gen-tie line during surveys of the Oberon Project site (Ironwood, 2021a).

Crissal Thrasher (*Toxostoma crissale***); SSC.** Crissal thrasher is a year-round resident of southeastern deserts, occupying dense shrubs in desert riparian and desert wash habitats, including mesquite, iron-wood, and acacia. The Project site provides limited but suitable nesting and foraging habitat primarily associated with dry wash woodlands. No crissal thrashers were observed within the Project site during surveys.

California horned lark (*Eremophila alpestris actia***); WL.** The California horned lark is found throughout California except the north coast and is less common in mountainous areas. It nests in open areas. There are numerous records in Riverside County. Suitable foraging and nesting habitat occur throughout the Project site and California horned larks were observed frequently during surveys.

Black-tailed gnatcatcher (*Polioptila melanura***); WL.** Black-tailed gnatcatchers are year-round residents in southeastern California and east through Arizona to southern Texas and northern Mexico. They are found in arid scrublands, desert brush, and dry washes. The Project site contains suitable foraging and potential nesting habitat for this species throughout the Project site and there was one observation during surveys and avian counts (Figure 3.5-6).

Special-status seasonal migrant birds. The following special-status bird species may migrate through the Project region during spring or fall migration or may spend winters in the vicinity but would not nest on or near the Project site due to absence of suitable wetland or riparian nesting habitat or due to geographic range. Potential for occurrence on the Project site is minimal, except for brief overflight or migratory stopovers. Four of them are listed as threatened or endangered so additional detail provided.

- Ferruginous hawk (*Buteo regalis*); WL, BCC. Potential foraging habitat during winter or migratory seasons; no potential nesting, site is outside the Ferruginous hawk's breeding range.
- Swainson's hawk (*Buteo swainsoni*); ST, BBC. Potential migration season foraging habitat; no potential nesting, well outside the nesting range.
- Northern harrier (*Circus cyaneus*); SSC. Suitable foraging habitat; no suitable nesting habitat.
- Short-eared owl (Asio flammeus); SSC. May be found incidentally during migration while foraging; no suitable nesting habitat.
- Vaux's swift (Chaetura vauxi); SSC. Suitable migration and foraging habitat; no suitable nesting habitat.
- Mountain plover (*Charadrius montanus*); SSC. Suitable habitat during migration; no potential nesting, outside breeding range.
- Sonora yellow warbler (Setophaga petechia sonorana); SSC, BCC. Suitable foraging habitat during migration in desert dry wash woodlands; no suitable nesting habitat.

 Yellow-breasted chat (*Icteria virens*); SSC. Potential stopover foraging occurrence during migration in desert dry wash woodlands; no suitable nesting habitat.

7-9

Other listed Bird Species. No suitable breeding or wintering habitat for the avian species below occur within or near the Project site. These state or federal listed bird species have been recorded at other utility-scale solar energy <u>facilities</u>, <u>but have not been observed during field surveys on the Project site (Ironwood, 2024)</u> facilities. There is a moderate potential for them to be in the Project vicinity during migration periods, but there is no suitable nesting or foraging habitat on the site for these species. None of these species were observed during field surveys.

- Yuma Ridgway's rail (Rallus obsoletus yumanensis); ST, CFP, FE. Yuma Ridgway's rail, formerly known as Yuma clapper rail, nests in freshwater marshes. In the low desert region, it is found along the lower Colorado River and the Salton Sea and Imperial Valley areas of California. Ridgway's rails do not appear to migrate in the traditional sense; however, occasional occurrences across the desert show some level of movement. Outlier observations have been documented at Harper Dry Lake, East Cronese Dry Lake, and Desert Center, all at a great distance from known breeding areas.
- Southwestern willow flycatcher (Empidonax traillii extimus); SE, FE. Southwestern willow flycatcher breeds in dense riparian habitats in the southwestern United States, and winters in southern Mexico, Central America, and northern South America. The willow flycatcher species is comprised of several recognized subspecies, including the southwestern willow flycatcher, which is the only subspecies that nests in the region. The closest known breeding locations to the Project site are approximately 35 miles away along the Colorado River and adjacent to the Salton Sea. Recent studies indicate that southwestern willow flycatchers do not migrate over the area of the desert where the Project site is located (Ironwood, 2023a1). However, other willow flycatcher subspecies (not listed as threatened or endangered) may pass through the area during migration. No suitable breeding habitat occurs on the Project site and it is outside the southwestern willow flycatcher's migratory routes.
- Yellow-billed cuckoo (Coccyzus americanus occidentalis); SE, FT, BCC, BLMS. Western yellow-billed cuckoo breeds in expansive riparian areas in portions of California, Nevada, Arizona, and New Mexico. The closest known breeding habitat is approximately 35 miles away along the Colorado River. During migration, western yellow-billed cuckoos migrate across the desert and use shrubland habitats, but there have been no documented sightings of western yellow-billed cuckoo <u>on or near the Project site</u>. No suitable nesting habitat is present on the Project site, although it is possible that western yellow-billed cuckoo could occur on the site briefly during migration season.
- Least Bell's vireo (Vireo bellii pusillus); SE, FE. Least Bell's vireo breeds in riparian habitats in southern California and portions of northern Baja California, Mexico and winters in southern Baja California. The closest known breeding habitat to the Athos Project site is to the northwest in the Big Morongo Canyon. No suitable nesting habitat is present on the Project site, although least Bell's vireo could occur on the site briefly, during migration season. The subspecies Arizona Bell's vireo (V. b. arizonae) is not ESA-listed, but is State-listed in California as endangered, and occurs along the lower Colorado River, approximately 35 miles east of the Project site.

Mammals

American badger (*Taxidea taxus*); SSC. The American badger is associated with dry open forest, shrub, and grassland communities with an adequate burrowing rodent population and friable soils. Badgers generally are associated with treeless regions, prairies, parklands, and cold desert areas (Ironwood, 2023a<u>4</u>). Suitable habitat exists for American badgers throughout the Easley Project site. Two active badger burrows with dig marks and recent tracks were identified during the fall 2021 survey, and four burrows with dig marks were identified as inactive badger burrows (Figure 3.5-8). A badger skull or skull

fragments (identified as carcass in the data) were observed at two locations. There are several canid burrows and complexes observed that could be used by the species, but no live individuals were observed.

7-9

Desert kit fox (*Vulpes macrotis arsipus***); CPF.** Desert kit fox is not recognized as rare but it is a protected fur-bearing mammal. Title 14 of the California Code of Regulations, Section 460, stipulates that desert kit fox may not be taken at any time. Desert kit fox is a fossorial mammal that occurs in arid open areas, shrub grassland, and desert ecosystems within the Mojave and Sonoran Deserts. Desert kit fox typically occurs in association with its prey base, which includes small rodents, primarily kangaroo rats, rabbits, lizards, insects, and in some cases, immature desert tortoises (CDFW, 2022a). Burrow complexes that have multiple entrances provide shelter, escape, cover, and reproduction, but desert kit fox may utilize single burrows for temporary shelter.

Many desert kit fox burrows observed within the Project site are part of a complex with multiple entrances. During surveys, twenty-one active desert kit fox burrows or complexes with dig marks, tracks, and/or scat were observed within the Easley Project site (Figure 3.5-8). Seventy-seven burrows or complexes, some with older scat, were identified as inactive desert kit fox burrows. Two carcasses (likely a skull or bone fragments) were observed at two separate locations. The number of burrows will likely change over time since kit fox distribution is dynamic and changes under natural conditions due to prey availability and other environmental factors such as the presence of coyotes that prey on kit fox pups.

Kit fox complexes, active burrows, and inactive burrows are also scattered along the gen-tie line (Ironwood, 2021a).

Desert bighorn sheep (*Ovis canadensis nelsoni***); BLMS.** The desert bighorn sheep is found from the Peninsular and Transverse Ranges through most of the desert mountain ranges of California, Nevada, and northern Arizona to Utah. Essential habitat for bighorn sheep includes steep, rocky mountain slopes, and areas where surface water is available during dry seasons. Habitat in the desert mountain ranges surrounding the upper Chuckwalla Valley is occupied by Nelson's bighorn sheep, and they occasionally use the valley floor habitat either for foraging (near the lower mountain slopes) or as movement routes among mountain ranges. No sign or evidence of desert bighorn sheep was found during field surveys, but scat is often difficult to distinguish from burro deer.

Burro deer (*Odocoileus hemionus eremicus***); CPGS.** Burro deer is a subspecies of mule deer (O. hemionus) that inhabits desert dry wash woodland communities in the Colorado region of the Sonoran Desert near the Colorado River. During hot summers, burro deer concentrate along the Colorado River, natural springs, near anthropogenic water sources such as the Coachella Canal, or agricultural areas, where water infrastructure has been installed and where microphyll woodland is dense and provides good forage and cover. With late summer thundershowers and cooler temperatures, burro deer move away from the Colorado River and Coachella Canal into larger washes or wash complexes in the foothills and nearby mountains (Ironwood, 2023a<u>4</u>).

Burro deer scat and tracks were observed throughout the Project site and along the gen-tie line (Figure 3.5-8). Burro deer likely move through the Project site and its vicinity to access artificial water sources from nearby agriculture and aquaculture farms.

Special status bats. Seven special-status bat species may forage on or near the Project site and are discussed further in the BRTR (EIR Appendix C).

Potential foraging habitat is located on the Project site in desert dry wash woodlands. Many bats, including special-status species, forage primarily on large insects such as moths, and tend to concentrate foraging activity around water sources, such as the irrigation sources around the active agricultural areas. Desert

dry wash woodlands provide suitable roosting habitat for two special-status bat species, western yellow bat and big free-tailed bat, as described below.

7-9

- Townsend's big-eared bat (Corynorhinus townsendii); SSC, BLMS. The Project site does not provide roosting areas for Townsend's big eared bat. Foraging habitat occurs along the desert dry wash wood-lands and within riparian habitat along artificial water sources near the aquaculture farm adjacent to the Project.
- California leaf-nosed bat (Macrotus californicus); SSC, BLMS. California leaf-nosed bat may forage within the Project site, but it is not expected to roost due to absence of suitable caves and mines.
- Pallid bat (Antrozous pallidus); SSC, BLMS. The Project site may provide suitable foraging habitat for pallid bats within the dry wash woodland but does not provide suitable roosting habitat. Acoustic bat surveys for Palen Solar Power Project (about 4 miles east of the Project site) detected pallid bat within the Project vicinity.
- Western mastiff bat (Eumops perotis californicus); SSC, BLMS. Suitable habitat for foraging occurs throughout the Project site, but roosting habitat is lacking. Western mastiff bat was detected within the vicinity on acoustic bat surveys for Palen Solar Power Project.
- Western yellow bat (Lasiurus xanthinus); SSC. Potential roosting habitat exists within the Project site in desert dry wash woodlands and riparian habitat. Suitable habitat for foraging also occurs in those same areas. Western yellow bat was detected within the vicinity during acoustic bat surveys for the Palen Solar Power Project.
- Big free-tailed bat (Nyctinomops macrotis); SSC. Foraging and potential roosting habitat for the big free-tailed bats occurs within the Project in desert dry wash woodland. Big free-tailed bat was detected within the Project vicinity through acoustic surveys conducted for the Palen Solar Energy Project.
- Pocketed free-tailed bat (Nyctinomops femorosaccus); SSC. Suitable habitat for foraging exists on the Project site, but roosting habitat is lacking.

3.5.1.5. Wildlife Movement

Wildlife migration corridors and movement routes are areas that connect suitable habitat in a region that may otherwise be fragmented by human disturbance, difficult terrain, or unsuitable vegetation. Natural features, including drainages, ridgelines, or contiguous natural habitat may provide routes or corridors for wildlife movement. Wildlife movement routes are critical to survival and reproduction for wildlife populations, as they provide expanded access to mates, food, and water across broad geographic areas; allow for dispersal from high-density areas; and facilitate gene flow among populations.

Accessibility between habitat areas (i.e., "connectivity") is important to long-term genetic diversity and demography of wildlife populations. In the short term, connectivity may be important to individual animals' ability to occupy their home ranges, if their ranges extend across a potential movement barrier. These considerations apply to all plants and animals. Plant populations "move" over the course of generations via pollen and seed dispersal; most birds and insects travel and disperse via flight; terrestrial species, including small mammals, reptiles, arid land amphibians, and non-flying invertebrates, disperse across land. Therefore, landscape barriers and impediments are more important considerations for movement of terrestrial species. These considerations are especially important for rare species and wide-ranging mammals, which tend to exist in lower population densities.

Movement opportunity varies for each species, depending on motility and behavioral constraints, as well as the presence of native habitats and landscape impediments.

In the Chuckwalla Valley, the biologically important functions of large mammal movement are (1) the long-term demographic and genetic effects of occasional animal movement among mountain ranges and other large habitat areas, and (2) regular movement to access local habitat resources, particularly water. Animals such as desert bighorn sheep may travel across the valley infrequently, to reach other subpopulations in surrounding mountains. In contrast to large animal movement, desert tortoises and other less-mobile animals may live out their entire lives within a linkage area between larger habitat blocks; for these species, movement among surrounding habitat areas may take place over the course of several generations.

In largely undeveloped areas, including the Chuckwalla Valley, wildlife habitat is available in extensive open space areas throughout much of the region, but anthropogenic barriers and land uses may impede or prevent movement for many terrestrial wildlife species. In these landscapes, wildlife movement planning focuses on specific sites where animals can cross linear barriers (e.g., wash crossings beneath I-10), and on broader linkage areas that may support stable, long-term populations of target species and allow demographic movement and genetic exchange among populations in distant habitats (e.g., surrounding mountains).

The Project site is located in the Chuckwalla Valley north of Desert Center. It is surrounded by the Chuckwalla Mountains to the south, the Palen Mountains to the east, the Coxcomb Mountains and Palen Valley to the north, and the Eagle Mountains to the west. Joshua Tree National Park is located to the west within 6 miles. Anthropogenic uses in the Project's vicinity that present barriers to movement include other solar development projects (either operational or in construction), the I-10 freeway to the south, the Desert Center Airport, and other roads and fences.

Multi-species linkages maintain habitat for wildlife movement between landscape blocks. The location of linkages in the Project vicinity (BLM, 2015) are based on several studies including the California Desert Connectivity Project (Penrod, 2012) and the California Essential Habitat Connectivity (CEHC) Project (Spencer et al., 2010). The CEHC identified areas surrounding the Project site as Natural Landscape Blocks (i.e., large, relatively natural habitat areas that support native diversity), including the Coxcomb Mountains to the north, the Eagle Mountains to the west, Palen Mountains to the east, and Chocolate Mountains to the south (BLM, 2015; Spencer et al., 2010). Broad habitat linkages connect these landscape blocks, and are primarily located along the desert valleys, providing connectivity between these isolated mountain ranges in the region.

The northern portion of the Project site overlaps with the southern portion of the BLM designated Pinto Wash linkage; however, since the Project site is within a BLM DRECP DFA, development for renewable energy was targeted for this area (Figure 3.5-9, 3.5-10). The Pinto Wash linkage area also overlaps the adjacent Desert Sunlight and Desert Harvest Solar Projects. Other solar projects to the south, including Oberon, Athos, Arica, and Victory Pass Solar Projects overlap with a different BLM DRECP multi-species linkage area just north of the I-10 freeway. The gen-tie line would cross through the Oberon Project site and overlap with this multispecies linkage. Like the proposed Project, these projects are located on both private lands administered by Riverside County, subject to mitigation measures through CEQA, and on BLM lands, subject to Conservation and Management Actions (CMAs) through the DRECP.

The Colorado River Aqueduct and the I-10 freeway, located north and south of the Project site, respectively, are significant obstructions to movement by terrestrial wildlife in the Project vicinity (Figure 3.5-9, 3.5-10). There are a few short below-ground segments of the aqueduct, but it is impassable to terrestrial wildlife except at those points. Some species, such as coyote, may learn to cross the freeway safely; however, the freeway presents an impassable or high-risk barrier to north-south movement for most terrestrial species, except at the I-10 freeway underpasses at wash crossings. On the 32-mile stretch of I-10 between the Desert Center and Wiley Wells Road exits there are 24 underpass crossings, ranging in from 10 feet to 75 feet wide, that provide connectivity and safe movement corridors between habitat to the north and south of the I-10 (Figure 3.5-10). Two of these crossings are located within 2 miles south

of the Project area. Wildlife species and sign detected at the underpass crossings included lizards, rodents, rabbit, roadrunner, ground squirrel, fox, coyote, bobcat, and burro deer. Other linear features such as smaller paved and unpaved roads, and transmission lines have only minimal effects on wildlife movement.

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3.5.2. Regulatory Framework

3.5.2.1. Federal Laws, Regulations, and Policies

Federal Land Policy and Management Act (FLPMA; 43 U.S.C. §§ 1701 1787). Directs management of public lands managed by the U.S. Forest Service, National Park Service, and BLM, addresses land use planning, rights-of-way, wilderness, and multiple use policies.

Endangered Species Act (ESA; 16 USC §§ 1531 1543). Establishes legal requirements for the conservation of endangered and threatened species and the ecosystems upon which they depend. The ESA is administered by the USFWS for terrestrial species. Under the ESA, the USFWS may designate critical habitat for listed species. Section 7 of the ESA requires federal agencies to consult with the USFWS to ensure that their actions are not likely to jeopardize listed threatened or endangered species, or cause destruction or adverse modification of critical habitat. Under the federal ESA, "the term 'take' means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct" and "harm" is further defined to include significant habitat modification or degradation that actually kills or injures listed wildlife by significantly impairing essential behavioral patterns.

Migratory Bird Treaty Act (MBTA; 16 USC §§ 703 711). Prohibits take of any migratory bird, including eggs or active nests, except as permitted by regulation (e.g., licensed hunting of waterfowl or upland game species). Under the MBTA, "migratory bird" is defined as "any species or family of birds that live, reproduce or migrate within or across international borders at some point during their annual life cycle" and applies to most native bird species.

Bald and Golden Eagle Protection Act (BGEPA; 16 USC § 668). The Bald and Golden Eagle Protection Act (BGEPA) prohibits the take, possession, and commerce of bald eagles and golden eagles. Under the BGEPA and subsequent rules published by the USFWS, "take" may include actions that injure an eagle or affect reproductive success (productivity) by substantially interfering with normal behavior or causing nest abandonment. The USFWS can authorize incidental take of bald and golden eagles for otherwise lawful activities.

Noxious Weed Act (7 USC §§ 2801 et seq.). Provides for the "management of undesirable plants on Federal lands."

Executive Order 13112, Invasive Species. Establishes the National Invasive Species Council and directs federal agencies to prevent the introduction of invasive species, provide for their control, and minimize the economic, ecological, and human health impacts caused by invasive species.

Executive Order 13186, Responsibilities of Federal Agencies to Protect Migratory Birds. Directs federal agencies to review the effects of actions and agency plans on migratory birds according to the National Environmental Policy Act (NEPA) or other established environmental review processes, with emphasis on species of concern (Section 6 of the order) and identify unintentional take reasonably attributable to agency actions, focusing first on species of concern, priority habitats, and key risk factors and to develop and use principles, standards, and practices to lessen the amount of unintentional take (Section 9).

California Desert Conservation Area Plan, As Amended (CDCA Plan). The CDCA Plan guides the management of approximately 12 million acres of BLM-administered lands in the California Desert District, including the Mojave, Sonoran, and a small portion of the Great Basin Deserts. The Project is within the CDCA Plan Area. The CDCA Plan directs management policy for multiple resources, including Wildlife and Vegetation.

Northern and Eastern Colorado Desert Coordinated Management Plan, amendment to the CDCA Plan. Provides more specific management direction for BLM lands in the Colorado Desert, including the BLM lands located within the area. Many of the specific management actions in NECO were superseded by the DRECP LUPA.

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Desert Renewable Energy Conservation Plan (DRECP), Land Use Plan Amendment (LUPA) to the CDCA Plan. The purpose of the BLM DRECP is to conserve and manage plant and wildlife communities in the desert regions of California while facilitating the timely permitting of compatible renewable energy projects. The DRECP LUPA covers over 10 million acres of BLM land. The DRECP LUPA includes plan decisions necessary to adopt a conservation strategy and a streamlined process for the permitting of renewable energy and transmission development on BLM-managed lands, while integrating other uses and resources. This is achieved through the designation of land use allocations for Ecological and Cultural Conservation, Recreation, and Development, and adopting CMAs for resources on public BLM lands throughout the LUPA Decision Area. At the broadest level, the LUPA includes the following components: Development Focus Areas (DFAs), Variance Process Lands (VPLs), General Public Lands, BLM Conservation Areas, and BLM Recreation Areas (BLM, 2016). The DRECP was developed as an interagency plan in 2016, and DFAs, where renewable energy development should be concentrated, were designated by the BLM, in coordination with the U.S. Fish and Wildlife Service (USFWS), California Energy Commission (CEC), and California Department of Fish and Wildlife (CDFW). The BLM ROD for the DRECP was issued in September 2016.

3.5.2.2. State Laws, Regulations, and Policies

California Endangered Species Act (CESA; Fish and Game Code § 2050 et seq.). Prohibits take of statelisted threatened or endangered species, or candidates for listing, except as authorized by the CDFW. Under the California Fish and Game Code and CESA, "'take' means hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill" but does not include "harm" as defined under the federal ESA. Authorization may be issued as an Incidental Take Permit or, for species listed under both CESA and the federal ESA, through a Consistency Determination with the federal incidental take authorization.

Fully Protected Designations (Fish and Game Code §§ 3511, 4700, 5050, and 5515). The California Fish and Game Code designates 36 fish and wildlife species as "fully protected" from take, including hunting, harvesting, and other activities. The CDFW may only authorize take of designated fully protected species through a Natural Community Conservation Plan (NCCP) or for necessary scientific research.

Birds (Fish and Game Code § 3503 and 3513). The California Fish and Game Code prohibits take, possession, or needless destruction of bird nests or eggs except as otherwise provided by the code. Section 3513 prohibits take or possession of any migratory nongame bird, as designated in the federal MBTA; it does adopt the federal exemption of incidental take.

Protected Furbearers (Cal. Code Regs. tit. 14, § 460). Specifies that several furbearing mammals, including desert kit fox, may not be taken at any time. The CDFW may permit capture or handing of these species for scientific research but does not issue Incidental Take Permits for other purposes.

Native Plant Protection Act (Fish and Game Code §§ 1900 1913). Prior to enactment of CESA and the federal ESA, California adopted the Native Plant Protection Act (NPPA). CESA (above) generally replaces the NPPA for plants originally listed as endangered under the NPPA. However, plants originally listed as rare retain that designation, and take is regulated under provisions of the NPPA. The California Fish and Game Commission adopted revisions to the NPPA allowing CDFW to issue incidental take authorization for listed rare plants, effective January 1, 2015.

California Desert Native Plant Act (CDNPA) (Food and Agricultural Code § 80001 et. seq.; Fish & Game Code §§ 1925-1926). The CDNPA protects species of California desert native plants from unlawful harvesting on public and private lands. The CDNPA prohibits harvest, transport, sale, or possession of specific native desert plants without a permit. Permits are obtained from the county where collecting will occur and are intended to provide for successful survival of salvaged and transplanted plants. Native plants protected include such species as yuccas, cacti, ocotillo, mesquites, palo verdes, smoke tree, and desert ironwood.

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Lake and Streambed Alteration (Fish and Game Code §§ 1600 1616). The CDFW regulates activities that would divert, obstruct or change the natural flow, bed, channel, or bank of any river, stream, or lake.

Porter-Cologne Water Quality Control Act of 1969 (California Water Code § 13000 et seq.). RWQCBs regulate Waters of the State, including State coordination with the Clean Water Act where federally jurisdictional waters are present. The Project is within the Colorado River Basin RWQCB area.

California Biodiversity Collaborative (Executive Order N-82-20). EO N-82-20 was issued on October 7, 2020, by California Governor Gavin Newsom. This executive order directed California Natural Resources Agency in consultation with the California Department of Food and Agriculture, the California Environmental Protection Agency and other state agencies, to establish the California Biodiversity Collaborative (Collaborative) to bring together other governmental partners, California Native American tribes, experts, business and community leaders and other stakeholders from across California to protect and restore the State's biodiversity. The EO also established a goal of California to conserve at least 30% of California's land and coastal waters by 2030.

The California Natural Resources Agency is directed to prioritize investments in actions that: promote biodiversity protection, habitat restoration, wildfire-resilience, sustainability managed landscapes and other conservation outcomes; implement actions to increase the pace and scale of environmental restoration and land management efforts by streamlining the State's approval process; collaborate with federal and state research institutions to utilize innovative scientific observation technology, and incorporate tribal expertise and traditional ecological knowledge; and participate in regional, national, and international efforts to advance biodiversity protection and prevent extinctions across the planet.

3.5.2.3. Local Laws, Regulations, and Policies

Riverside County General Plan (2015). Includes policies addressing biological resources within the Land Use (LU) and Open Space (OS) elements, as follows:

- Policy LU 9.1: Provide for permanent preservation of open space lands that contain important natural resources, cultural resources, hazards, water features, watercourses including arroyos and canyons, and scenic and recreational values (AI 10).
- Policy LU 9.2: Require that development protect environmental resources by compliance with the Multipurpose Open Space Element of the General Plan and federal and state regulations such as CEQA, NEPA, the Clean Air Act, and the Clean Water Act.
- Policy LU 24.1: Cooperate with the CDFW, USFWS, and any other appropriate agencies in establishing
 programs for the voluntary protection, and where feasible, voluntary restoration of significant environmental habitats (AI 10).
- Policy OS 18.1: Preserve multi-species habitat resources in the County of Riverside through the enforcement of the provisions of applicable MSHCPs and through implementing related Riverside County policies. (The Project site is not within an MSHCP area).

3.5.3. Methodology for Analysis

The impact assessment presented in this EIR was conducted to identify and disclose potential direct, indirect, and cumulative impacts of the proposed Project and alternatives. Examples of potential direct

impacts to biological resources include mortality, injury, or displacement of special-status plants or animals; loss or degradation of native habitat; interference with wildlife movement or migration; and disturbance to plants, animals, and habitat from noise, light, or dust. Examples of potential indirect impacts that occur later in time or farther removed in distance, include erosion, sedimentation, introduction of invasive species, or increased predation on native wildlife due to habitat alterations (e.g., perch sites or "subsidies" for predators).

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The analysis presented in Section 3.5.5 (Proposed Project Impact Analysis) is based on the biological resources on the Project site, described in Section 3.5.1 (Environmental Setting) and in Appendix C (Biological Resources Technical Report), and on the Description of the Proposed Project and Alternatives (Section 2 of this EIR). Several meetings were held among the Applicant, wildlife agencies, and BLM biologists to discuss potential impacts and applicable regulation. In addition, written and oral comments regarding the Project's potential impacts to biological resources during the scoping process (EIR Appendix B, Scoping Report) were reviewed to inform the analysis.

The analysis identifies and describes the proposed Project's expected impacts on biological resources and identifies mitigation measures to reduce those impacts to less than significant. Sections 3.5.6 and 3.5.7 provide similar analyses of Project alternatives. Potential impacts on biological resources that may be individually limited, but cumulatively considerable are addressed in Section 3.5.<u>68</u>.

3.5.4. CEQA Significance Criteria

The criteria used to determine the significance of potential biological resources impacts are based on Appendix G of the State CEQA Guidelines. The proposed Project would result in a significant impact under CEQA related to biological resources if the Project would:

- Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites (Impact BIO-3).
- Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U. S. Fish and Wildlife Service (Impact BIO-4).
- Have a substantial adverse effect on State or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means (Impact BIO-5).
- Conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance (Impact BIO-6).

The County of Riverside's Environmental Assessment Form includes additional significance criteria, which were also used in the analysis. The additional criteria indicate that a project could have potentially significant impacts if it would:

- Have a substantial adverse effect, either directly or through habitat modifications, on any endangered, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12) (Impact BIO-1).
- Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U. S. Wildlife Service (Impact BIO-2).

The following CEQA significance criterion from Appendix G was not included in the analysis and is not discussed further beyond this summary:

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• Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state conservation plan.

The Project site is not within an area covered by an adopted Habitat Conservation Plan; Natural Community Conservation Plan; or other approved local, regional, or State habitat conservation plan. Therefore, no impacts would occur. Public lands within and surrounding the Project site are within the area managed by BLM under the DRECP, which is applicable only on federal lands. The BLM is responsible for environmental review, including DRECP compliance, under NEPA.

3.5.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department resulted in several public comments and concerns related to Biological Resources. Public concerns communicated in the scoping process related to biological resources include:

- Impacts to vegetation communities, desert dry wash woodlands, ironwood trees, and desert wildflowers.
- Impacts to displaced wildlife (including desert tortoise, deer, coyote, cougar, lizards, and migrating birds), loss of habitat, and new barriers to movement routes. Concerns that fewer wildlife are seen in the community since solar development started.
- Impacts to desert tortoise habitat connectivity between designated critical habitat units and loss of gene flow.
- Potential "lake effect" that may attract birds, resulting in collisions with facilities. Impacts of power lines on birds, resulting in electrocution. Impact of solar development on health and presence of migratory birds.
- Ground disturbance and grading resulting in modifications to washes, stormwater runoff, and potential for floods in the community. Impacts of vegetation management on erosional patterns during flash flooding.
- Success of post-construction revegetation, considering climate change in an arid climate.
- Concerns regarding an increase in termite swarms and rattlesnake encounters (see Section 4.5, Other Public Concerns).
- Need to consider acreage already lost to solar development in the DFA, and what is likely to be developed in the future.
- Potential for increased local temperatures due to "PV heat island effect".

Acreages of impacts to sensitive resources in the proposed solar facility footprint are outlined in Tables 3.5-1a and 3.5-1b. Impacts on desert dry wash woodland are described in Impact BIO-1. Impacts to desert tortoise critical habitat are described in Impact BIO-2. Impacts to the DRECP desert tortoise and multi-species linkages are described in Impact BIO-3.

Impacts would be less than significant with the incorporated mitigation. This section of the EIR describes biological resources at the Project site and evaluates the Project's potential impacts to biological resources, including special-status species, wildlife movement, and jurisdictional waters. With implementation of mitigation measures (Section 3.5.93.5.7), none of the Project's potential impacts to biological resources would be significant.

The analysis is based on the Biological Resources Technical Report (BRTR) and Jurisdictional Waters Report, prepared by Ironwood Consulting (Ironwood, 2023a4; 2023b) (see Appendices C and F, respectively). Impacts along the gen-tie line were evaluated based on descriptions and mapping of biological resources on the Oberon Renewable Energy Project site (Ironwood, 2021a; 2021b).

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3.5.5.1. DRECP CMAs

The Applicant is required to comply with DRECP CMAs on BLM-administered lands. Applicable CMAs that are required to protect biological resources are detailed in Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. Implementation of CMAs would avoid, minimize, mitigate, and compensate for loss of native habitat, and reduce direct and indirect impacts to special-status wildlife by requiring qualified biological staff to conduct surveys, inspections, and monitoring, require the Applicant to provide compensation for impacts to native and sensitive habitats, re-vegetate disturbed areas, and require specific protections and buffers for native habitat types, including desert dry wash woodland and special-status species.

While impact significance conclusions in this chapter are not predicated on DRECP CMA compliance on private lands within the Project site, the Applicant has committed to complying with DRECP CMAs on private lands to further minimize impacts to biological resources and provide a uniform approach to Project development across public and private lands within the Project site. Mitigation measures, as described in Section 3.5.7, encompass and are consistent with the requirements of the CMAs, thereby further ensuring that DRECP CMAs would also be implemented on private land within the Project site. Applicable CMAs and their role in the avoidance, minimization, and mitigation of impacts on BLM land are described for each Impact below.

3.5.5.2. DRECP Compensatory Mitigation

All of the BLM-administered lands considered for Project development are lands designated as Development Focus Area (DFA) in the DRECP LUPA. The DRECP LUPA, as described in Section 3.5.2, is administered by BLM and has two primary goals. One is to provide a streamlined process for the development of utilityscale renewable energy generation and transmission in the deserts of southern California consistent with federal and state renewable energy targets and policies. The other is to provide for the long-term conservation and management of special-status species and desert vegetation communities, as well as other physical, cultural, scenic, and social resources within the DRECP Plan Area using durable regulatory mechanisms. The DRECP LUPA includes Conservation and Management Actions (CMAs) that are requirements designed to reduce the effects of development on sensitive resources, as well as highlight other types of mitigation to further reduce impacts.

Based on impacts to both private and BLM-administered public land and following ratios required in applicable DRECP CMAs (e.g., CMA LUPA-BIO-COMP-1), the Applicant, in coordination with BLM, is developing an approximately 2,700-acre compensation package to be compiled and managed by Wildlands, Inc. Although DRECP CMAs only apply to BLM-administered lands, compensatory mitigation at the mitigation ratios called for in the CMAs are included in the County's mitigation measures for the Project.

In accordance with DRECP CMAs and pending coordination with/approval by resource agencies, the compensation package will mitigate impacts to desert dry wash woodland, suitable desert tortoise habitat, designated critical habitat (along the gen-tie route), and other sensitive habitats. DRECP CMA LUPA-BIO-COMP-1 requires a mitigation ratio of 1:1 for impacts to standard biological resources (i.e., Sonoran creosote bush scrub) and a ratio of 5:1 for impacts to desert riparian woodland vegetation types and desert tortoise critical habitat. Compensation lands would be of much higher quality habitat than the existing habitats within the Easley Project development footprint. Much of the area surrounding the Project site is degraded and contains anthropogenic features and land uses that reduce habitat value, such as agriculture, residential, renewable energy, transmission lines, historic military operations, recreational development/limited dispersed camping, BLM designated Off-Highway Vehicle (OHV) open routes, and State Route 177/Rice Road, Kaiser Road, and the Interstate 10 freeway farther to the south.

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Impact BIO-1. The Project would have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Wildlife Service.

Less THAN Significant with Mitigation. Potential effects on special-status plants and wildlife could result from construction or operation and maintenance (O&M) of the proposed Project. Construction activities would minimize ground disturbance, grubbing, and grading using mowing and rolling methods for vegetation in the solar array areas. *-* except for sSpecific facilities, including the substation, storage containers, O&M facilities, laydown yards, pre-fabrication areas, and roads would require ground disturbance in the form of mowing, grubbing, grading, and compaction. Construction would involve minor changes to onsite topography. The proposed layout of solar panels would avoid major existing hydrologic patterns with respect to runoff, avoiding washes, stream beds, stream banks, where feasible. The Applicant has committed to avoiding desert dry wash woodlands, except for minor incursions of linear features and where there is existing intervening infrastructure on private land, in compliance with DRECP CMAs and impacts to jurisdictional drainages would be regulated with permits from CDFW and RWQCB. The solar array areas would require trimming of woody vegetation. Certain areas of the site with highly irregular topography that provide important hydrologic functions to the site would be avoided by Project design. Other irregular areas would be leveled or smoothed to provide for construction access and installation.

During O&M, impacts would be reduced compared to construction, and would be limited to repair and maintenance of facilities and fencing, requiring minimal staff on site. Vegetation under solar panels would continue to be trimmed, and panels would be washed infrequently if natural rains do not sufficiently remove dust and debris. Vehicles would be used to access Project facilities, which may create a hazard for wildlife in the vicinity of access roads.

Potential direct and indirect impacts on special-status plants and wildlife are outlined below for the solar facilities and the gen-tie line. These dDirect and indirect impacts to special-status species and their habitat would be significant. Compliance with applicable CMAs (discussed in detail below) would minimize impacts of the proposed Project on special-status species on BLM lands. Impacts on private lands can-will be avoided, minimized, and mitigated with implementation of mitigation measures, as listed below and specified detailed in Section 3.5.93.5.7. and as detailed below for vegetation and habitat, special-status plants, and special status wildlife. Compliance with applicable CMAs and any Project specific mitigation measures developed during the NEPA process would further minimize impacts of the proposed Project on special-status species on BLM lands. Special status plants and wildlife would be less than significant.

- MM BIO-1 (Biological Monitoring)
- MM BIO-2 (Worker Environmental Awareness Training)
- MM BIO-3 (Minimization of Vegetation and Habitat Impacts)
- MM BIO-4 (Integrated Weed Management Plan)
- MM BIO-5 (Vegetation Resources Management Plan)
- MM BIO-6 (Wildlife Protection)
- MM BIO-7 (Desert Tortoise Protection)
- MM BIO-8 (Bird and Bat Conservation Strategy (BBCS))
- MM BIO-9 (Nesting Bird Management Plan (NBMP))
- MM BIO-10 (Gen-tie Lines)

- MM BIO-11 (Burrowing Owl Avoidance and Relocation)
- MM BIO-12 (Desert Kit Fox and American Badger Relocation)
- MM BIO-13 (Wildlife Protection and Relocation Plan)
- MM BIO-14 (Streambed and Watershed Protection)

A detailed discussion of impacts and mitigation is provided below for vegetation and habitat, specialstatus plants, and special-status wildlife. With (1) implementation of the identified mitigation measures on private land portions of the Project, and (2) implementation of the identified CMAs on BLM land portions of the Project, impacts to special-status plants and wildlife and associated habitat would be less than significant.

Solar and BESS Facility

Vegetation and Habitat

Impacts Discussion

The <u>proposed</u> Project would permanently impact native habitats as shown in Figure 3.5-2 and Tables 3.5-1a and 3.5-1b. Impacts to desert dry wash woodland from minor incursions and impacts to desert <u>pavement</u>, <u>which would primarily occur on public lands (BLM)</u>, <u>a sensitive community</u>, are detailed further in the discussion of <u>in</u> Impact BIO-4<u>on sensitive communities</u>. and would primarily occur on public lands (BLM). All affected habitats may support special-status plant and wildlife species (described below).

	Solar & BESS	500kV Gen-tie Line ROW	Exterior Components (Roads	
Vegetation Type	Facility (Acres)	(175-ft wide)*	& MVAC Lines)	TOTAL
Native Habitats and Communities				
Creosote Bush Scrub	1,545.9<u>1,</u>339.	107.0 36.1	28.0 51.3	1,680.9 1,426.5
	<u>1</u>			
Dry Desert Wash Woodland	<u>0.3</u>	<u>4.4</u>	<u>13.0</u>	<u>17.7</u>
Desert Pavement	<u>44.038.8</u>	8.0<u>1.1</u>	- <u>0.2</u>	52.0 40.0
Dry Desert Wash Woodland	3.8	22.5	5.3	31.6
Non-Native Habitats				
Annual grasses	31.7 24.9	-	- <u>0.9</u>	31.7<u>25.8</u>
Deciduous Orchard/Fallow Agriculture	406.0 <u>456.3</u>	<u>-0.4</u>	5.9 6.4	<u>412.3</u> 462.8
Developed Water Feature	10. <u>+2</u>	-	-	10. <u>+2</u>
Invasive Tamarisk/Riparian	<u>0</u> 0.4 <u>.1</u>	-	-	0.4<u>0.1</u>
Urban/Developed	8.6 11.7	<u>-</u> 0.4	1.5_	10.5 <u>11.7</u>
TOTAL	2,050.5	138.341.5 acres*	40.771.8 acres	<u>2,229.5</u>

Table 3.5-1a. Impacts to Vegetation Native Habitats and Communities

*Final gen-tie line impact acreages will be less than the 175-foot-wide ROW shown in the table, as impacts would occur only at structures (up to 45 poles) and spur roads. Disturbance assumptions at each structure location are included in EIR Section 2.4.6. Furthermore, structures would be micro-sited to minimize impacts to sensitive habitats and resources to the maximum extent feasible.

1,881.3 acres

1,994.7 acres

Vegetation Type	Solar/BESS Facility (all components excluding gen-tie line)	500 kV Gen-tie Line ROW (within Oberon Project)	TOTAL	Undeveloped Land within Project Area (acres avoided)	
Public Lands (BLM)					
Sonoran Creosote Bush Scrub	1,374.4<u>1,209.7</u>	107.0 34.8	<u>1,244.5</u> 1,481.4	<u>768.9</u> 614.7	
Desert Dry Wash Woodland	<u>8.9</u> 12.1	22.5 4.4	<u>16.5</u> 31.4	<u>644.6</u> 648.5	
Desert Pavement	44.0 <u>38.9</u>	<u>8.0</u> 1.1	<u>39.9</u> 52.0	<u>27.1</u> 22.1	
TOTAL (Public Lands)	1,427.3<u>1,260.7</u> acres	137.5 40.3	1,564.8<u>1</u>,300.9 1, 285.3<u>440.5</u> acres		
		acres*	acres		
Private Lands					
Sonoran Creosote Bush Scrub	196.5 180.7	0.0<u>1.3</u>	196.5<u>182.0</u>	135.3 164.2	
Desert Dry Wash Woodland	0.2<u>1.2</u>	0.0	0.2<u>1.2</u>	83. <u>6</u> 7	
TOTAL (Private Lands)	196.7<u>181.9</u> acres	0.0 <u>1.3</u> acres	196.7 183.2	219.0247.8 acres	
			<u>acres</u>		
TOTAL	1,6241,442.6 acres	137.5 41.5 acres*	1,761.5 1, 504.3<u>688.2</u> acres		
		<u>1,484.1</u> acres			

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Table 3.5-1b. Impacts to Native Habitats by Land Ownership

*Final gen-tie line impact acreages will be less than the 175-foot-wide ROW shown in the table, as impacts would occur only at structures (up to 45 poles) and spur roads. Disturbance assumptions at each structure location are included in EIR Section 2.4.6. Furthermore, structures would be micro-sited to minimize impacts to sensitive habitats and resources to the maximum extent feasible.

Vegetation, including native vegetation, habitat, and special-status plants would be trimmed, cut, or removed. Soils throughout the solar fields would be affected by some form of ground disturbance, which may result in erosion or compaction of soils. <u>Potential direct impacts may include direct crushing, burial, or uprooting of vegetation and root damage.</u>

Construction activities could accumulate dust on vegetation, which could diminish gas exchange or photosynthesis. Altered hydrology from site preparation could directly or indirectly affect native habitats by increasing stormwater runoff, increasing erosion, and degrading habitat conditions. Effects to soils and vegetation, in turn, would affect special-status wildlife that may be present due to the collapse of burrows and removal of vegetation used as nesting and foraging habitat.

During construction, the Project would temporarily affect surrounding habitat by introducing heavy equipment, vibrations, noise, lighting, dust, and increased human presence, resulting in disturbances that would affect wildlife behavior. Temporary noise and disturbances would occur at various parts of the Project areas at various times during construction. These impacts cannot be quantified as each species or individual animal would react differently to the various disturbances.

Construction would indirectly affect native vegetation communities through the potential introduction and spread of invasive weeds, which could <u>outcompete native plant species and</u> degrade plant and wildlife habitat on the Project site and beyond the site boundaries. <u>Invasive weeds that were found on the Project</u> <u>site are Saharan mustard (Brassica tournefortii)</u>, Russian thistle (Salsola tragus), tamarisk or saltcedar (Tamarix ramosissima), Mediterranean grass (Schismus barbatus), London rocket (Sisymbrium irio), red brome (Bromus madritensis ssp. rubens), foxtail barley (Hordeum jubata), annual beard grass (Polypogon monspeliensis), and athel tamarisk (Tamarisk aphylla).

While chemical control with herbicides may be necessary to minimize the spread of non-native invasive species following construction, their use may affect adjacent non-target vegetation and wildlife in treatment areas. Accidental spills and herbicide drift from treatment areas could be particularly damaging to non-target vegetation.

As described for O&M and decommissioning, washing of solar panels would introduce additional water to the site, which would supplement natural sources and may affect vegetation composition or persistence. However, panel washing would be performed infrequently (up to four times each year) if natural rains do not sufficiently clear dust and debris. No chemical agents would be used for module washing. It is not expected that panel washing and the supplemental water would be enough to affect vegetation community composition or persistence.

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Photovoltaic Heat Island Effect

A photovoltaic (PV) "heat island" effect refers to the temperatures in and around PV solar power plants increasing from ambient temperature due to replacement of native land cover with solar panels that absorb heat. This is similar to the "urban heat island" effect, where native cover is replaced with pavement and concrete buildings. Solar panels convert solar radiation into heat, which can alter the air flow, energy flux dynamics, and temperatures near the panels (Fthenakis and Yu, 2013; Barron-Gafford et al, 2016). Soils, vegetation, and wildlife may be affected by such changes and increases in temperature in and around the solar farms. Increased temperatures may increase evapotranspiration from vegetation and affect recovery and persistence of native habitat and preferred forage plants. This may also decrease soil moisture, which could impact suitability of soils for burrowing wildlife such as desert tortoise, burrowing owl, badger, and kit fox.

Fthenakis and Yu (2013) found that annual average air temperature in the center of a solar project at heights approximately 2.5 meters (8 feet) above the ground can reach up to 1.9° C (3.5° F) above ambient temperature. This thermal energy dissipates and reaches ambient temperature at 5-18 meters (16-60 feet) above the ground. This same study found a prompt dissipation of thermal energy and decrease to ambient temperatures around the PV panels at 300 meters (984 feet) away from the perimeter of the solar farm and that access roads between solar fields allow for substantial cooling. Over 18 months of data showed that the solar array was cooled to ambient temperatures overnight. This study suggests that increases in temperatures surrounding solar farms are localized during the day.

Similarly, Broadbent (2019) found increased temperatures during the day, with an average 1.3°C increase in air temperature in the solar field at a height of 1.5 meters (5 feet). During the night, their results also showed no significant difference in the air temperatures between the solar facility and a reference site. This study also showed that the average soil temperature at 2 to 6 centimeters (0.75 to 2.4 inches) depth at the solar site was approximately 10°C cooler than at the exposed reference site. By contrast, the nighttime soil temperatures at the solar site were warmer than the reference site. The study demonstrated that shading from solar panels causes cooler soil temperature during the day and slightly warmer soil temperature at night.

Barron-Gafford et al (2016) monitored three study sites (natural desert ecosystem, traditional built environment (parking lot with commercial buildings), and PV power plant), measuring air temperature at 2.5 meters (8 feet) off the ground. The average annual air temperature was greater at the PV power plant, increasing 2.5°C during the day. Contrary to other studies, a delayed cooling of ambient temperatures was detected in the evenings, with average annual midnight temperatures increasing 3.5°C, compared with the natural desert ecosystem. This study asserted that by removing vegetation, heat-dissipating transpiration from vegetation is decreased, and compared to natural systems, the greater amount of exposed ground surfaces absorbs more solar radiation during the day, which may increase soil temperatures (Barron-Gafford et al, 2016). During the night, stored heat is reradiated, where warming under the panels may be due to the heat trapping of reradiated heat flux (Barron-Gafford et al, 2016). Broadbent (2019) suggests that these considerable nighttime temperature increases detected were partially caused by advection from urban surfaces near the study site. Devitt (2022) evaluated a large solar facility in the Mojave Desert and the effect it had on adjacent down gradient creosote communities. The study monitored changes in soil and plant water status over a 900-meter transect where a built service road resulted in decoupling of up-gradient washes from down-gradient locations leading to a decline in soil water in storage. Similar to other studies, air temperatures were significantly warmer near the solar facility compared to a reference point. Consistent with Barron-Gafford (2016), night temperatures were found to be higher closest to the solar facility.

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Beatty (2017) studied revegetation of a solar facility with varying treatments (varying seed mixes (shade tolerant vs. sun tolerant), varying cultural treatments (protection of seeds), and varying amounts of shade (based on orientation of collector panels)). The highest total vegetation cover was associated with seeding warm-season native grasses in the absence of any seed protection. Renewable Energies Agency looked at revegetation under modules for various case studies and recommended using a seed mixture appropriate for local site fauna to promote re-establishment of vegetation (Beatty et al, 2017). Although the study did not address whether successful revegetation fostered reestablishment of wildlife use, incidental observations suggested that it had to some extent.

Notably, these studies were performed on solar sites that were graded and unvegetated. Barron-Gafford concluded, in part, that mitigation of the PV heat island effect would be achieved through targeted revegetation, which could ease ecosystem degradation associated with development of utility scale solar projects (Barron-Gafford et al, 2016). Further, the study performed by Devitt (2022) was located at a solar facility with a fixed panel system. Regarding nighttime temperatures, the study suggested that if the panels are mounted as a tracking system, the panels could be situated in a perpendicular position relative to the ground at night, allowing longwave radiation and trapped heat to escape to the sky, reducing the heat displacement into adjacent plant communities during the early morning hours.

Based on studies to date, impacts to vegetation and wildlife at solar facilities related to the PV heat island effect include increased air temperatures in the vicinity of the solar field and changes in soil temperatures. Increased temperatures could impact the species composition of vegetation and wildlife in the vicinity of the solar facility, where temperatures could be too high for certain species to persist. Mobile species may be displaced as they are forced to vacate the area of increased temperatures. Changes in hydrology could reduce water availability for vegetation communities and increases or decreases in soil temperatures could affect persistence of vegetation and habitat suitability for burrowing wildlife.

However, unlike the solar farms in these studies, the proposed Project would maintain vegetation under the solar panels, which would be mowed and rolled to a height of 12 inches to preserve vegetation and facilitate more effective post-construction site revegetation (see Section 2.6.32.4.4.1). Woody vegetation, such as palo verde trees, that are in areas adjacent to infrastructure where it does not affect solar panel performance would be partially cut, leaving the lower trunk intact to allow regrowth of branches and leaves. The proposed layout of solar panels would avoid desert dry washes except for minor incurious and where there is intervening infrastructure. Certain areas of the site with highly irregular topography that provide important hydrologic functions to the site would be avoided by Project design. It is anticipated that many species will regenerate post-construction due to preservation of desert vegetation during the construction phase. After construction, a Vegetation Resources Management Plan (MM BIO-5) would be implemented to direct revegetation of tempor-arily disturbed areas and monitor the success of revegetation efforts. Revegetation may be trimmed approximately once every three years, as needed. Further, the proposed panel mounting system is expected to be single-axis trackers with a portrait module orientation (see Section 2.5.1), that could be oriented throughout the night to release stored heat. <u>As described in the project description</u>, panels would be stowed at max tilt (60 degrees) overnight, thereby allowing heat to escape from beneath the panels (see Section 2.3.1). Panels may be temporarily stowed in a different angle position if needed due to mechanical or electrical maintenance or for high wind protection.

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The studies suggest that many factors interact in complex ways to influence the movement of heat away from solar facilities, including topography, wind direction, flows of cold air, seasonal changes in climate, shading from solar panels, presence of native vegetation and hydrology, and structural features of the solar panels (ability to tilt and height from the ground). Further research is needed to evaluate the PV heat island effect at solar facilities where vegetation is maintained in the solar field and where solar panels are mobile on a tracking system. However, existing studies suggest that by maintaining vegetation under the solar panels, and adjusting the nighttime tilt of solar panels, the PV heat island effect can be mitigated and impacts would not be significant.

Mitigation of Project Impacts on Private Land

Without mitigation, the loss of native vegetation and habitat on <u>private lands in the Project site would</u> significantly affect special-status species on the site or in the vicinity. Impacts would be avoided, minimized, and mitigated by implementing mitigation measures (MMs), listed below.

MM BIO-1 (Biological Monitoring) would require monitoring and reporting by qualified biologists to ensure compliance with all biological resource measures <u>and permitting requirements</u>. <u>including avoidance and minimization of habitat impacts</u>. <u>Biological monitoring during construction would ensure that ground and vegetation disturbance would not be performed outside of approved work areas and that impacts to vegetation are minimized</u>.

MM BIO-2 (Worker Environmental Awareness Training) would require training of on-site workers by <u>Project biologists</u> to identify and avoid sensitive biological resources, and to report observations to the <u>Project biologists</u>. and to avoid and minimize impacts to special-status species and their habitat. Comprehensive training of on-site workers would ensure that they limit ground disturbance to work areas and that they avoid sensitive habitats and special-status species.

MM BIO-3 (Minimization of Vegetation and Habitat Impacts) would require clear demarcation of work areas <u>with staking</u>, flagging, or other appropriate materials that are readily visible and durable.- Work areas include staging areas, access roads, and sites for temporary placement of construction materials and spoils. All disturbances, vehicles, and equipment will be confined to the fenced/flagged areas. Sensitive resources that require avoidance would be flagged by the Lead Biologist. Fencing/staking will remain in place for the duration of construction. and limitation of activities within those areas, to minimize significant effects to habitat.- Native vegetation would be allowed to recover from rootstocks where permanent facilities are not required, improving post-construction habitat values in the Project area. Flagging and staking work areas would avoid ground, soil, and vegetation disturbance outside of approved boundaries, minimizing impacts to habitat in the vicinity of work areas.

MM BIO-4 (Integrated Weed Management Plan) requires that the development of an Integrated Weed Management Plan (IWMP) (EIR Appendix N), which will specify weed species occurring or potentially occurring in the Project area, the means to prevent their introduction or spread, monitoring methods to identify infestations, timely implementation of suppression and containment measures, and a reporting schedule. In addition, MM BIO-4 requires the IWMP to identify herbicides that may be used for control or eradication, and avoid herbicide use in or around any environmentally sensitive areas. Management of the sources of non-natives (equipment tires, construction materials) and suppression and containment of non-native invasives (mechanical and/or chemical control) would improve post-construction habitat values in the Project area by preventing introduction and spread of weeds that outcompete native species

and increase risk of wildfire. Proper use of herbicides, in compliance with BLM guidelines, would minimize herbicide drift and spills to avoid contamination and degradation of non-target vegetation.

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MM BIO-5 (Vegetation Resources Management Plan) requires <u>a plan to direct</u> revegetation of temporarily disturbed areas to minimize dust and erosion and to improve post-construction habitat values (Appendix S). The plan would specify revegetation methods including soil preparation, erosion control methods, and planting and seeding, cactus salvage procedures, a planting schedule, irrigation and maintenance guide-lines, a vegetation monitoring and reporting program, and quantitative success criteria to measure the recovery of vegetation post-construction. Erosion control shall be implemented as described in the Drainage Erosion and Sedimentation Control Plan (DESCP) (MM HWQ-1). Seeding and revegetation, soil decompaction, and erosion control would stabilize soils post-construction and promote native habitat recovery, which would minimize long-term impacts to native habitats and soils in the Project area.

Impacts to native habitat would be mitigated in accordance with regulatory permits from the CDFW and RWQCB. Impacts to desert dry wash woodland would be avoided on private lands, as on BLM lands in accordance with the DREPC CMAs. Habitat impacts on BLM lands would also be mitigated in accordance with the DRECP and mitigation measures in the final NEPA document.

These mitigation measures would ensure that disturbance of vegetation and habitat on private land portions of the project site is minimized and restricted to designated and demarcated work areas.

Impacts to desert dry wash woodland have been avoided (except for minor incursions of linear features and where there is existing intervening infrastructure on private lands) on private and BLM lands as part of the Project design (Section 2.7.3), consistent with DRECP CMA LUPA-BIO-RIPWET-1 (see below and in Appendix CC). Compensatory mitigation for minor incursions into desert dry wash woodland on private land shall be identified prior to disturbance of the features at a minimum 5:1 ratio, as required in MM BIO-14 and consistent with DRECP CMA LUPA-BIO-COMP-1. Compensatory mitigation for impacts to desert pavement on private land shall be identified at a minimum ratio of 1:1, as required in MM BIO-3 and consistent with DRECP CMA LUPA-BIO-COMP-1. Compensatory mitigation for impacts to suitable desert tortoise habitat (creosote bush scrub) on private land shall be identified prior to disturbance of features at a minimum 1:1 ratio and impacts to desert tortoise critical habitat at a 5:1 ratio, as required in MM BIO-7 and consistent with DRECP CMA LUPA-BIO-COMP-1. Avoidance of desert dry wash woodland would preserve habitat values on the Project site and minimize impacts to vegetation. Compensation for impacts to vegetation would offset habitat loss.

Mitigation of Project Impacts on BLM Land

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations included in any BLM ROW Grant issued for the Project. Compliance with the following CMAs, which would be required on BLM land, would mitigate impacts on BLM land to less than significant, as described below.

- LUPA-BIO-1 (Biological Resources) requires assessments of habitat, identification of vegetation types, and protocol surveys for BLM Special Status Species where suitable habitat may be present in the Project area. Habitat assessments and protocol surveys would ensure that sensitive biological resources would be detected and identified for avoidance.
- LUPA-BIO-2 (Biological Resources) requires a designated biologist to conduct and oversee biological monitoring and reporting during pre-construction, construction, and decommissioning. Using a qualified biologist to oversee surveying, monitoring, and reporting will ensure that ground and vegetation disturbance would not be performed outside of approved work areas and that direct injury and mortality of wildlife species is avoided.

LUPA-BIO-5 (Worker Education) requires that all activities implement a BLM-approved worker education program that describes biological resources and how to identify them, their legal protections, minimization and mitigation measures, and reporting requirements. Comprehensive training of on-site workers would ensure that they limit ground disturbance to work areas and that they avoid sensitive habitats and special-status species.

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- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance) requires that temporary impact areas be restored using site-specific seed and soils, planting methods and timing, and success criteria, monitoring, and contingency measures, and that cactus be salvaged from the site and re-planted to the maximum extent practicable. Seeding, revegetation, soil decompaction, and erosion control would stabilize soils post-construction and promote native habitat recovery, which would minimize long-term impacts to native habitats and soils in the Project area.
- LUPA-BIO-10 (Standard Practices for Weed Management) requires best management practices for weed management such as cleaning tires and equipment prior to entering the site, using certified weed free construction materials, re-vegetation of disturbed areas, and monitoring, identification, and eradication of weed infestations. Identification, suppression, and containment of non-native invasives and their sources would improve post-construction habitat values in the Project area by preventing introduction and spread of weeds that outcompete native species and increase risk of wildfire.
- LUPA-BIO-11 (Nuisance Animals and Invasive Species) requires the management and proper use and disposal of herbicides and pesticides, and restriction of herbicide use near streams, washes, and surface and subsurface waters. Proper use of herbicides, in compliance with BLM guidelines, would minimize herbicide drift and spills to avoid contamination and degradation of non-target vegetation and waterways.
- LUPA-BIO-13 (General Siting and Design) requires siting and design to avoid impacts to unique plant assemblages. The CMA requires projects along the edges of the biological linkages to maximize the retention of microphyllous woodlands, in order to maintain the function of the connectivity area. The CMA requires that Project boundaries be demarcated and that Project activities, equipment, and vehicles be restricted to marked areas and existing roads and utility corridors. Lighting is required to be limited and directed away from habitat areas to minimize disturbance. Avoidance of desert dry wash woodland would prevent direct removal of functional corridor habitat. Flagging and staking work areas would avoid ground, soil, and vegetation disturbance outside of approved boundaries, minimizing impacts to habitat in the vicinity.
- LUPA-BIO-SVF-1 (Special Vegetation Features) requires that a habitat assessment be performed for special vegetation features such as yucca, creosote rings, microphyll woodland, and Crucifixion thorn stands, which would ensure that these resources are identified and demarcated for avoidance or salvage.
- LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management) requires that management and salvage of cacti and BLM sensitive plants adhere to BLM-policies, downed wood be promoted for habitat values, and plant material be collected for re-vegetation. These measures would ensure that habitat values are improved in the Project area after construction.

The following CMAs describe protection for desert dry wash woodland. The Project design would avoid desert dry wash woodland with a 200-foot setback buffer, except for minor incursions, consistent with the CMAs (Section 2.7.3).

■ LUPA-BIO-3 (Resource Setback Standards) requires setbacks from specific biological habitats with allowable minor incursions as specified in applicable CMAs. Setback requirements are described in the

species-specific CMA. The Project would avoid the desert dry wash woodland vegetation type with the required 200-foot buffer per LUPA-BIO-RIPWET-1 (See LUPA-BIO-RIPWET-1).

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- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species) requires that certain vegetation types be avoided with a specified setback, except for allowable minor incursions. Sonoran-Coloradan Semi-Desert Wash Woodland (desert dry wash woodland, microphyll woodland) is required to be avoided with a 200-foot setback.
- LUPA-BIO-SVF-6 (Special Vegetation Features) requires that impacts to microphyll woodland be avoided except for minor incursions.
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation) require compensation for loss of desert riparian woodland vegetation (5:1), through non-acquisition (i.e., restoration and enhancement), land acquisition (i.e., preserve), or a combination of these options. Compensation would offset habitat loss resulting from direct vegetation removal in work areas. Impacts to desert dry wash woodland would be avoided, except for minor incursions; compensation for minor incursions would be mitigated at a 5:1 ratio.

Similar to the requirements of the MMs, CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would preserve sensitive habitat in the Project area and prevent degradation from disturbance in adjacent areas.

Mitigation Conclusion

<u>With implementation of MMs BIO-1 through BIO-5 mitigation measures on private land and CMAs on BLM</u> <u>land as described above, impacts to vegetation and habitat</u> would minimize significant impacts to native habitat<u>be less than significant</u>.

Special-status Plants

Impacts Discussion

Construction activities may result in direct impacts to special-status plants, including loss of individuals. Four special-status plants were observed on the Project site (Figure 3.5-4). One Emory's crucifixion thorn was observed along the northern boundary of the site and would be avoided outside the development footprint. California ditaxis was observed primarily along or outside Project boundaries, and impacts would be minimal. Desert unicorn-plant is located primarily in desert dry wash woodland habitat that would be avoided outside the development footprint, and impacts would be minimal. Utah milkvine was observed in one location. As CRPR 4 (watch list) species without additional reasons for conservation concern (e.g., geographic range, unusual morphology, or unusual habitat/substrate), potential impacts to desert unicorn-plant and Utah milkvine are not significant. Suitable habitat for glandular ditaxis, <u>Harwood's milkvetch, Las Animas Colubrina, and spiny abrojo, and Argus blazing star</u> is located within the Project area, but they were not observed. No other special-status plant species were observed. <u>Protected desert native plants, as listed in Section 3.5.1.3</u>, were observed in the Project area (Refer to the BRTR [EIR <u>Appendix C] for a map of locations</u>].

Impacts to special-status plants and protected native desert species would be similar to those previously described for Vegetation and Habitat. Potential direct impacts to special-status plants may include direct crushing, burial, or uprooting of individual plants; root damage; disturbance of seed banks, underground dormant plants, and plant nutrients; burial or scour of plants from altered runoff, sedimentation, and

erosion; and disruption of photosynthesis from fugitive dust. These impacts would result from trimming, cutting, or removing vegetation, grading, earth-moving, and vehicle traffic.

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Indirect impacts to special-status plants may occur from incidental introductions of invasive weeds that outcompete native species and reduce habitat quality. Although some impact areas may be temporarily disturbed, the effects to special-status plants may be long-term or permanent in that area due to changes in soil conditions and seed banks after construction.

Mitigation of Project Impacts on Private Land

Without mitigation, <u>Project construction on private land within the Project site could result in the loss or</u> <u>disturbance of local populations of special-status plants and established seed banks</u>, which would be a <u>significant impact to special-status plants on the Project site or in the vicinity</u>. the loss of vegetation and natural habitat on the Project site would significantly affect special-status plants on the site.

Impacts to special-status plants on private land in the Project site would be avoided and minimized by implementing MMs BIO-1 through BIO-5. As described in detail for Vegetation and Habitat, MMs BIO-1 to MM BIO-5 require use of qualified biologists for surveying and monitoring (MM BIO-1 Biological Monitoring), training of construction personnel on identifying and avoiding sensitive plant and wildlife resources (MM BIO-2 Worker Environmental Awareness Training), clear demarcation of vegetation for removal and low impact site preparation (MM BIO-3 Minimization of Vegetation and Habitat Impacts), managing non-natives in disturbance areas (MM BIO-4 Integrated Weed Management Plan), and revegetating with native habitat (MM BIO-5 Vegetation Resources Management Plan). These measures would avoid direct disturbance and removal of individual special-status plants as marked, and minimize the disturbance of the seed bank and disruption of supporting soils by keeping work activities within designated work areas. Low impact site preparation would increase vegetation retention and restoration after construction. The IWMP (Appendix N) would prevent contamination and degradation of non-target vegetation and improve habitat values by managing herbicide use and preventing and controlling spread of weeds in disturbed areas. The VRMP (Appendix S) would describe methods for salvaging, storing, and handling seed and plants from the Project site. By implementing seed and plant salvage, seeding and revegetation, soil decompaction, erosion control, and non-native control in disturbance areas, soils would be stabilized, native vegetation would be re-established, and post-construction habitat values would be improved in the Project area to support recovery of special-status plants.

The Project has been designed to avoid desert dry wash woodland (except for minor incursions). Compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would preserve habitat values and offset habitat loss.

Mitigation of Project Impacts on BLM Land

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations in any ROW Grant issued for the Project. Compliance with these CMAs, which would be required on BLM lands, would mitigate impacts on BLM land to less than significant, as described.

The following CMAs, previously detailed for Vegetation and Habitat, would reduce impacts for specialstatus plants for the same reasons as described above in the discussion of impacts to Vegetation and Habitat:

- LUPA-BIO-1 (Biological Resources).
- LUPA-BIO-2 (Biological Resources).

- LUPA-BIO-5 (Worker Education).
- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance).

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- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- LUPA-BIO-SVF-1 (Special Vegetation Features).
- LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management).
- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

These CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would preserve sensitive habitat in the Project area and prevent degradation from disturbance in adjacent areas. Compensation would offset habitat loss.

Additionally, the following CMA would be implemented to minimize impacts to special-status plants:

 LUPA-BIO-PLANT-1 (Plant Species (PLANT): Plant Focus and BLM Special Status Species CMAs) requires properly timed protocol surveys for BLM Special Status Plant Species, which would ensure identification of special-status plants in disturbance areas that require demarcation for avoidance or salvage.

By identifying individual special-status plants in the Project area, they could be avoided or salvaged for post-construction re-vegetation, promoting recovery of habitat values.

Mitigation Conclusion

With implementation of mitigation measures on private land and CMAs on BLM land as defined-scribed above, impacts to special-status plant species would be less than significant.

Special-status Wildlife

Impacts Discussion

Construction may result in direct impacts to special-status wildlife including injury or mortality. Construction activities would cause most mobile vertebrate wildlife to leave or attempt to leave the site. Wildlife dispersing from the site could be at increased risk of predation and possible vehicle collisions as they flush from cover during site clearing. After leaving their home territories, displaced wildlife may be unable to find suitable food or cover in new, unfamiliar areas. Displacement effects would apply to common and special-status wildlife species.

Construction could cause mortality of small mammals and reptiles which may be crushed by construction equipment. In most cases, adult birds would fly away from the disturbance, but bird nests (including eggs or nestlings, if present) would be lost. Burrowing owls and some reptiles, if present during construction, would tend to shelter inside burrows where they could be vulnerable to crushing. Land use conversion could exclude reptiles, birds, and mammals from portions of their territories, and could reduce availability of prey items and breeding opportunities.

Introduction of new roads fragments and degrades habitats in the vicinity, interrupts surface hydrology, disrupts wildlife movement patterns and behaviors, divides wildlife populations, and may result in increased wildlife mortality from vehicle strikes. Increased roadkill becomes an attractant for opportu-

nistic predators that prey on special-status wildlife. Wildlife populations may decline with cumulative mortality and loss of larger reproductive animals (Nafus et al., 2013).

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Facilities could present hazards to wildlife. For example, vertical structures can be collision hazards for birds or bats in flight; trenches can be pitfall hazards for terrestrial wildlife; and construction materials such as open pipes or tubing can attract birds or terrestrial species, which can become trapped inside. Open, uncovered water tanks may attract wildlife that subsequently drown without a means of exit. Installed fencing may provide opportunities for perching of predatory birds, such as raptors and ravens.

Noise and lighting during construction could affect wildlife in adjacent habitats by disrupting foraging, breeding, sheltering, and other activities; or may cause wildlife to avoid otherwise suitable habitat surrounding the site. Lighting during construction may affect nocturnal wildlife species, by causing alterations to forage or movement behavior, possibly attracting some species to the site (e.g., bats may be attracted to insects at light sources) or dissuading other species from approaching the site. Various other human activities (e.g., vehicle traffic, accumulated waste, or nuisance water sources) can be injurious to wildlife, either as direct hazards (vehicle strikes) or as attractants <u>and subsidies</u> such as food or water. <u>that may Subsidies could attract special-status species and put wildlife-them</u> in harm's way or attract opportunistic predators that prey on those species. Facilities and equipment may become nest or perch sites for certain birds (common raven, loggerhead shrike) which may prey on special-status species (desert tortoise).

Herbicides used to treat invasive weeds may also pose risks to terrestrial or aquatic wildlife species. Herbicides that persist on site could injure wildlife that ingest target plants or come into contact with herbicides (e.g., by digging or rolling in treated soil).

Mitigation of Project Impacts on Private Land

Without mitigation, the loss and modification of native habitat and direct disturbance, mortality, or injury of special-status wildlife as a result of project construction on private land within the Project site could significantly affect species on the project site or in the vicinity.

Impacts to special-status wildlife <u>on private land would be minimized and avoided with implementation</u> <u>of mitigation measures.</u>

MMs BIO-1 to MM BIO-5, as discussed in detail for Vegetation and Habitat, require use of qualified biologists for surveying and monitoring (MM BIO-1 Biological Monitoring), training of construction personnel on identifying and avoiding sensitive plant and wildlife resources (MM BIO-2 Worker Environmental Awareness Training), clear demarcation of vegetation for removal and low impact site preparation (MM BIO-3 Minimization of Vegetation and Habitat Impacts), managing herbicide use and the introduction and spread of non-natives in disturbance areas (MM BIO-4 Integrated Weed Management Plan), and revegetating with native habitat (MM BIO-5 Vegetation Resources Management Plan).

These measures would minimize direct disturbance, loss, degradation, and contamination of nesting, sheltering, and foraging habitat for special-status wildlife by keeping work activities within designated work areas. By implementing seeding and revegetation, soil decompaction, erosion control, and non-native control in disturbance areas, as directed in the IWMP and VRMP, soils would be stabilized, native vegetation would be re-established, and post-construction habitat values would be improved in the Project area. Management of herbicides in accordance with established protocols will prevent wildlife encounters with treated vegetation.

The Project has been designed to avoid desert dry wash woodland (except for minor incursions of linear features and where there is existing intervening infrastructure), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM

BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would preserve habitat values for wildlife and offset habitat loss.

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<u>Additionally, MM BIO-6 (Wildlife Protection) are discussed by species in detail below. Without mitigation, impacts to special-status wildlife would be significant, as described for each species.</u>

MM BIO-6 (Wildlife Protection) identifies numerous requirements to manage hazards to wildlife in work areas and report dead or injured wildlife. avoid, minimize, and mitigate wildlife injury and mortality, such as site inspections, ramps to ensure escape from excavations, prevention of attractants such as trash or water, hazardous material avoidance, and vehicle speed limits. By performing site inspections; restricting vehicle speed limits; monitoring for wildlife entrapment and providing means of escape in trenches, holes, piping, or water tanks; managing food, trash, and water subsidies; and properly handling hazardous materials, predation, injury, and mortality of special-status wildlife would be reduced. Use of directed night lighting would minimize disturbance of wildlife in the Project vicinity and adjacent habitat. These measures would increase detection of wildlife that require avoidance in Project areas and would prevent attraction of predators and special-status species to the Project site, where there is increased likelihood of disturbance.

Additionally, BLM with Cornell University, USGS, and UC Davis would conduct a three-year BACI scientific research study on wildlife responses to solar energy development (e.g., site preparation, management actions, and conservation measures) on federal lands in the Project vicinity. The Easley site would be surveyed during construction and O&M to better understand wildlife movement in desert wash corridors in relation to solar facilities, post-construction wildlife responses relative to pre-construction baselines, and effective conservation measures and adaptive management. While the study will not focus on federally listed species, the responses of other sensitive and common species would inform management approaches.

Mitigation of Project Impacts on BLM Land

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with these CMAs, which would be required on BLM lands, would further mitigate impacts to less than significant, as described.

The following CMAs, previously detailed for Vegetation and Habitat, would reduce impacts to wildlife habitat used by special-status species for the same reasons as described above in the discussion of impacts to Vegetation and Habitat:

- <u>LUPA-BIO-1 (Biological Resources).</u>
- <u>LUPA-BIO-2 (Biological Resources).</u>
- LUPA-BIO-5 (Worker Education).
- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance).
- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- <u>LUPA-BIO-SVF-6 (Special Vegetation Features).</u>
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

These CMAs reduce impacts to wildlife and habitat by requiring qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological

resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot setback buffer would prevent direct removal of sensitive habitat used by many wildlife species for foraging, shelter, breeding, and movement through the Project vicinity. A 200-foot setback would reduce degradation from disturbance in adjacent areas.

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Additionally, the following CMAs would be implemented to minimize impacts to special-status wildlife:

- LUPA-BIO-4 (Seasonal Restrictions) requires species-specific seasonal restrictions on Project activities as specified in the applicable CMAs. Seasonal restrictions and requirements are described in the species-specific CMA. Seasonal restrictions would ensure that construction activities do not disturb sensitive wildlife species during vulnerable periods in their life cycle.
- LUPA-BIO-6 (Subsidized Predators Standards) requires management of predator subsidies including food, water, trash, breeding and roosting sites for common raven. By reducing predator attractants and managing subsidies, injury or mortality of special-status wildlife due to predation would be minimized.
- LUPA-BIO-12 (Noise) requires that noise from stationary sources that exceed background ambient levels and that may impact BLM Special Status Species be managed, and that equipment be fitted with mufflers to reduce noise. By reducing noise in the Project area, indirect disturbance to wildlife in adjacent habitats and foraging, breeding, and movement behaviors would be minimized.
- LUPA-BIO-14 (Biology: General Standard Practices) requires that BMPs be implemented to protect BLM Special Status Wildlife Species, such as prohibiting harassment or feeding wildlife; prohibiting domestic pets on the Project site; inspection of construction materials that may provide shelter for wildlife; covering and inspection of trenches and excavations that may be an entrapment hazard to wildlife; providing a means of escape from excavations; and minimizing vegetation removal using crushing or mowing techniques. These measures would increase detection of wildlife that require avoidance in Project areas and would prevent attraction of predators and special-status species to the Project site, where there is increased likelihood of disturbance, mortality, and injury. Using crushing and mowing techniques would minimize impacts to vegetation and promote recovery of native wildlife habitat.
- LUPA-BIO-15 (Biology: General Standard Practices) requires use of BLM-approved "state-of-the-art" construction techniques that minimize site disturbance, soil erosion and compaction, and removal of vegetation. Using current BLM-approved methods would minimize impacts to vegetation and promote recovery of native wildlife habitat.
- DFA-BIO-IFS-1 to -3 (Biological Resources) requires that species-specific protocol surveys be implemented in DFAs for desert tortoise, Bendire's thrasher, and burrowing owl and that species-specific setbacks be implemented in DFAs for Bendire's thrasher, burrowing owl, and Swainson's hawk. Surveys and setback buffers would ensure that species are detected on the Project site and avoided at a distance that is sufficient to prevent disturbance of target species.

These CMAs reduce disturbance, injury, and mortality of wildlife species, by surveying and buffering for individuals, limiting work during species active seasons, and managing work site hazards and sources of disturbance.

Species-Specific Measures

The following paragraphs summarize species-specific impacts, mitigation measures, and CMAs in addition to the MMs and CMAs previously described, which provide improvement and avoidance of habitat and protection of wildlife from work site hazards for all special-status species on the Project site.

Species-specific mitigation measures, as discussed in detail below, ensure that work areas on private land in the Project site would be surveyed, and that special-status wildlife would be identified, monitored,

buffered and avoided, or properly excluded or relocated. These measures are expected to reduce the need for handling, the likelihood and severity of injury, and the likelihood of mortality of special-status wildlife with potential to occur in the Project areas. CMAs described below would likewise minimize impacts on special status wildlife on BLM land within the Project site.

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With implementation of MM BIO-6 and other wildlife mitigation measures described for each species, impacts to special status wildlife would be less than significant.

Couch's spadefoot toad. Couch's spadefoot toad uses late season monsoonal rain pools for breeding, development and hatching of eggs into tadpoles and then juvenile toads. It requires rain pools that hold water long enough for the eggs and tadpoles to develop, and then disperse into surrounding habitat (approximately 1 week). Couch's spadefoot toad was not observed, but potential suitable breeding habitat is present within the Project site in areas where water accumulates, primarily along Project boundaries where water from agricultural uses accumulates (Figure 3.5-5).

Impacts to Couch's spadefoot toad, if present, may include direct loss of habitat, mortality from crushing, <u>entrapment</u>, or vehicle collisionstrikes</u>, or-increased predation by opportunistic predators, or contamination of waterways with hazardous fuels or herbicides. Noise, lighting, or vibrations during construction could disrupt sheltering or breeding behaviors or may cause the toad to avoid otherwise suitable habitat <u>surrounding the site</u>.

-MMs BIO-1 to BIO-5, previously discussed, would minimize significant impacts to native vegetation and habitat. MM BIO-6 (Wildlife Protection) would minimize mortality and injury with implementation of preconstruction surveys, vehicle speed limits, and measures to prevent entrapment and release entrapped wildlife. In addition to MMs previously detailed, MM BIO-12-14 (Streambed and Watershed Protection) would require Best Management Practices (BMPs) to protect water resources on the Project site, where Couch's spadefoot toad may occur. BMPs limit operation of vehicles and equipment in flowing or ponded water and construction in ephemeral drainages, and require containment and cleanup of fuels and construction debris to prevent contamination and pollution of waters. Impacts to jurisdictional features Construction-would require coordination with CDFW regarding a Lake and Streambed Alteration Agreement (LSAA) from CDFW-and with RWQCB regarding Waste Discharge Requirements (WDR)-from RWQCB, which would have additional-permit requirements to protect jurisdictional wetlands and waters, including Couch's spadefoot toad habitat (see Impact BIO-5). Compensatory mitigation shall be implemented for impacts to jurisdictional waters at a minimum 1:1 ratio, in coordination with CDFW and RWQCB.

In addition to the CMAs previously detailed for all special-status wildlife species, LUPA-BIO-9 (Water and Wetland Dependent Species Resources) requires that BMPs be implemented to prevent toxic and hazardous materials from entering streams and washes, such as proper maintenance and fueling of vehicles and equipment, and prompt clean up of spills. The CMA requires erosion and sedimentation control, including maintaining natural drainages, reducing impervious surfaces, stabilizing disturbed areas, and performing regular inspections and maintenance of erosion control. The CMA also requires that means of escape be provided for wildlife from ponds or other Project related water infrastructure. By properly handling and containing hazardous fuels and managing erosion in work areas, contamination, pollution, and sedimentation of waters would be minimized and avoided. Protection of waters would reduce impacts to Couch's spadefoot toad. Use of escape structures for wildlife from open water sthat may provide habitat for Couch's spadefoot toad would also be required pursuant to CMA LUPA-BIO-COMP-1.

With implementation of <u>the mitigation measures described above on private land within the Project site</u> and implementation of the CMAs described above on BLM land within the Project site, impacts to Couch's spadefoot toad would be less than significant.

Native Birds. Native birds are protected under the California Fish and Game Code and federal MBTA (see Section 3.5.2, Regulatory Framework). Special-status birds are discussed in the paragraphs below. The Project site and surrounding area provides suitable nesting habitat for numerous resident and migratory bird species. Bird nests, including eggs and nestlings, are vulnerable to construction activities that may disrupt nesting behavior or damage nests, birds, or eggs.

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Direct removal of vegetation and habitat on the Project site would reduce availability of nesting and foraging habitat and disturbance would reduce availability of food sources. Open water tanks and project materials or equipment may introduce an entrapment hazard, which could lead to injury or mortality. Indirect impacts would include increased noise, dust, light, and activity, which may affect migratory or foraging behavior. Exposure to herbicides or spilled fuels may injure or kill individuals. After completion of construction and throughout the life of the Project, the solar facilities and other Project components may present a collision or electrocution risk to birds. Impacts due to collision and electrocution are detailed below.

Impacts to native birds, including special-status birds, would be significant. Impacts would be avoided and minimized with implementation of mitigation measures. Implementation of MMs BIO-1 through BIO-6, which require habitat compensation, revegetation of short term impact areas, pre-construction surveys and marking of sensitive resources, management plans, and construction crew training, would minimize and offset adverse impacts to native vegetation, thereby minimizing impacts to bird and bat habitat.

<u>In addition to MMs BIO-1 to BIO-6, previously detailed, MM BIO-6 (Wildlife Protection) would minimize</u> Project impacts to birds through a series of requirements to minimize or avoid wildlife injury, such as site inspections, prevention of attractants such as trash or water, hazardous material avoidance, and vehicle speed limits.

MM BIO-8 (Bird and Bat Conservation Strategy [BBCS]) requires a Bird and Bat Conservation Strategy (BBCS) Plan that would identify potential hazards to birds and bats during construction and O&M. The Plan (see Appendix M) specifies measures to recognize, minimize, and avoid hazards, describe procedures for reporting and handling dead or injured wildlife, and describe post-construction monitoring and adaptive management for bird and bat mortality. Hazards may include collision, electrocution, territory abandonment, nest and roost site disturbance, habitat loss and fragmentation, disturbance from human presence, and predator subsidies, in accordance with USFWS guidelines (USFWS, 2010). The plan requires provisions for adaptive management to evaluate the death and injury of birds that are detected, based on the results of similar monitoring at other solar project sites in the vicinity. Resulting data would be used to inform adaptive measures needed to mitigate or minimize Project-related avian impacts, which may include implementing additional mortality from work site and Project related hazards and operation of the solar facilities would be adaptively managed and reduced.

MM BIO-9 would protect nesting birds by implementing a Nesting Bird Management Plan (NBMP) (Appendix O), which requires pre-construction nest surveys and sweeps, establishment of exclusion buffers around active nests and nest monitoring, and agency reporting and adaptive management. Surveys, exclusion buffers, and monitoring would protect nesting birds from direct mortality or injury; avoid direct destruction of nests, eggs, and young; and minimize disturbance of nesting behaviors from construction noise, vibrations, dust, lighting, and increased human presence, which could otherwise result in nest abandonment. , implement nesting bird surveys per a Nesting Bird Management Plan (NBMP), include monitoring and avoidance of nesting seasons, and specify measures to recognize, minimize, and avoid hazards. With mitigation, impacts to native birds would be less than significant.

Bird Collision

After completion of construction and throughout the life of the Project, the solar facilities and other components may present a collision or electrocution risk to birds. Collisions typically occur when the structures are not visible (e.g., power lines or guy wires at night), or are deceptive (e.g., glazing and reflective glare) or confusing (e.g., light refraction or reflection from mist). In the case of solar panels, birds may collide with the panels that reflect the sky and clouds and are misconstrued as safe passage (USGS, 2016). Secome have hypothesized that the collision risk may be linked to a "false-lake effect," wherein birds may mistake PV panels for water bodies, and consequently be attracted to them. This hypothesized effect may be the cause of water-associated and water-obligate species mortalities, including federally listed Yuma Ridgway's rail, which has been found at another solar facility.

Injuries from collisions with panels may result in immediate death due to fatal blunt trauma, or stranding (the inability of a bird to take flight) (USGS, 2016). Stranding can occur when an individual crippled by collision impact is unable to take off, or when a water bird (that can reach take-off velocity only after running on the surface of a water body) lands safely but, without a sufficiently large body of water, cannot take off and may succumb to starvation or heat exhaustion.

Solar structures found in large solar generation facilities may mimic water bodies (i.e., "lake effect") and create solar flux that could potentially result in collision. The highest anticipated collision risk is in the Cadiz Valley and Chocolate Mountain area where the Project is located (BLM, 2015). <u>The Project is located within the Pacific Flyway, and is centrally located within 40 miles of the Salton Sea to the southwest and within 50 miles of the Colorado River to the east, both of which provide stopover habitat for migratory birds. The nearby Lake Tamarisk also serves as habitat for a large abundance of birds (Kosciuch et al., 2021). The lake effect is at present a hypothesis that remains unsupported by empirical research. The cause of avian injuries and fatalities at commercial-scale PV solar projects are being evaluated by the USFWS, CDFW, and others. The structures that have been empirically demonstrated to result in elevated collision risk at various types of facilities (e.g., tall buildings, communication towers, wind turbines, or concentrating solar thermal towers) (Walston et al., 2016; Erickson et al., 2001) would not be required at the solar facility for the Project, which consists of low-height PV arrays.</u>

A collection of 13 fatality monitoring studies at PV solar facilities in three bird conservation regions (BCRs) in California and Nevada have shown the highest percentage of fatalities across all studies were common species, including mourning dove, horned lark, house finch, and western meadowlark.

Passerines (55.0 percent) and doves/pigeons (17.0 percent), on average, are the most common detections (Kosciuch et al., 2020). Carcasses of water-associated birds (e.g., herons and egrets) and water-obligate birds (e.g., loons and grebes) have been found at PV solar facilities in the Sonoran and Mojave Deserts, primarily found at sites within 60 miles of the Salton Sea. Water-associated (6.3 percent) and water-obligate species (7.8 percent) each compose less than 10 percent of the detections. Raptors are very uncommon detections (less than 1.0 percent) (Kosciuch et al., 2020). Sensitive species that could occur at the Easley Project site that have been detected as fatalities in the arrays at desert sites include loggerhead shrike (four) and yellow-breasted chat (two). <u>The study concluded that most fatalities were feather spots with unknown cause of mortality, most evidence was from common ground-dwelling birds, no large mortality events were detected, and most carcasses were <u>detected in fall (Kosciuch et al., 2020).</u> No large mortality events have been documented at PV solar facilities.</u>

Kagan et al (2014) identified bird remains recovered from the three solar facilities in Southern California, Ivanpah, Genesis Solar, and Desert Sunlight. These birds comprised 71 species representing a broad range of ecological types from strictly aerial feeders (e.g. swifts and swallows), strictly aquatic feeders (pelicans and cormorants), ground feeders (roadrunners), to raptors (hawks and owls). The species were equally divided among resident and non-resident species. Both nocturnal and diurnal species were represented. As part of this study, the carcass of one federally endangered Yuma Ridgway's rail was found on the Desert Sunlight Solar Project in 2013 (Kagan, 2014). However, older solar facility sites, such as Desert Sunlight, differ from recent solar facilities in that they used fixed-tilt panels without anti-reflective coating, which could mimic water bodies. More modern solar PV facilities, including the Easley Project, use single axis tracking technology which allows the panels to tilt towards the angle of the sun, and anti-reflective coatings that reduce glint and glare reflected by the panels and allow the panels to absorb more sunlight. The Ivanpah and Genesis solar projects, also presented in Kagan et al (2014), use concentrating solar that creates a concentrated solar flux and singe mortality of birds, an effect not found at solar PV facilities. Harrity and Conway (2020) suggest that rails, which migrate long-distances primarily at night, may benefit from orienting solar panels more perpendicular to the ground overnight in order to minimize potential lake effect (in addition to the PV heat island effect as previously discussed in Vegetation and Habitat).

Kosciuch (2021) studied aquatic bird occurrences at PV solar facilities in Southern California. Over 2 study periods (2018 and 2019) at all study sites (PV facility and reference), 26 aquatic bird species were detected during point counts. The study included Lake Tamarisk as an aquatic reference site, which supported a much higher abundance (25-800 times) of aquatic birds compared to PV solar sites, considering the opportunities for foraging and loafing on the lake. Birds with the highest abundance at Lake Tamarisk were American coot, mallard, ring-necked duck, ruddy duck, blackcrowned night-heron, and pied-billed grebe (Kosciuch Et. al., 2021). Detections of aquatic bird species at the three studied solar facilities (Blythe, Highlander II, Seville 1 and 2) included mallard (carcass), tree swallow, great egret, northern rough-winged swallow, yellow-headed blackbird, cliff swallow, great blue heron, blue-winged teal (carcass), and common loon (carcass). Monitoring from the study found that live aquatic birds occurred at PV solar facilities, but did not find flocks approaching the sites or landing behavior, which may be expected if aquatic birds across taxa are attracted to the solar sites. The study showed that aquatic birds were infrequently observed at desert scrub and grassland study sites and showed no evidence of landing attempts and circling behaviors. The study site in agricultural habitat had higher aquatic bird detections, however this site was located in a landscape that had been altered by irrigation and farming. Aquatic bird detections were made at the studied PV solar facilities and in irrigated agricultural reference areas, but not in reference desert scrub and grassland habitats, which may indicate that they are attracted to the facility-suggesting there could be a mechanism of attraction for aquatic birds to solar facilities and perceived water sources in desert environments (Kosciuch Etet. al., 2021). However, Ethe study concluded that there is limited evidence of aquatic birds being broadly attracted to solar facilities. The findings indicate that PV solar facilities are unlikely to provide a signal of a lake to all aquatic birds at all times and that attraction is likely context dependent (based on bird species, its health status (ill or exhausted birds land randomly on a landscape), and causal mechanism of attraction).

The California Energy Commission (CEC) released a study (2024) that investigated the lake effect hypothesis by simulating visual cues birds use to locate water bodies. The study examined detection by birds of an attractive cue such as polarized light, the adjustment in flight behavior toward a solar facility, and the arrival and interaction of birds at solar facilities. Imagery of two solar panels used in large solar facilities show that they polarize light in a way that mimics natural water bodies from a range of angles, elevations, and distances that birds would experience. Descent of birds was notably more common for south-bound birds (possibly migrating) and peaked near midday, suggesting the birds were seeking water or shelter in the arid landscape and that PV panels in less arid areas may be less attractive to birds (CEC, 2024). The study indicated that the lake effect may hold for some species in some landscapes, but that it cannot be readily generalized to all aquatic habitat birds in all landscape contexts. The study found there were no aquatic bird carcasses in desert scrub reference

areas outside solar facilities and a small number found in the associated facility. The report concludes that birds are more attracted to highly polarized sources of visible light and that solar panels polarize light in a manner similar to water. In combination with mortalities of water-obligate species at solar sites, the results are consistent with an operational "lake effect" on bird species at arid solar facilities; however, the study concludes that the "lake effect" is likely a complex process subject to species type, condition of the individual, behavioral motivation, extrinsic conditions, and geometry of the individual's location with respect to the sun and PV panels (CEC, 2024). Additionally, the study noted that thin-film panels, such as those proposed for use for at the Easley Project, likely are not as attractive to birds flying north and that thin-film panels therefore may reduce exposure to lake-effect related collisions during spring migration.

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The structures that have been empirically demonstrated to result in elevated collision risk at various types of facilities (e.g., tall buildings, communication towers, wind turbines, or concentrating solar thermal towers) would not be required at the solar facility for the Project, which consists of low-height PV arrays.

The lake effect hypothesis was primarily developed based on data from the Desert Sunlight solar facility, and it was unclear whether the presence of aquatic bird carcasses was unique to the Desert Sunlight facility or a widespread pattern in utility-scale solar energy projects. Bird fatality data from Desert Sunlight has been presented in several studies and is noted for the high numbers of aquatic bird carcasses (Kagan et al., 2014; Walston et al., 2016; Kosciuch et al., 2020). Recent studies in the southwestern U.S. and Alberta, Canada have shown that the patterns of avian mortality observed at Desert Sunlight have not been observed at other facilities (Kosciuch et al., 2021; Kosciuch et al., 2022). It is likely that the use of single-axis tracker panels with anti-reflective coating has largely reduced collision risk for birds.

Argonne National Laboratory is completing a study at seven PV solar facilities in four regions in the U.S. by installing cameras to monitor bird activity. The camera system has documented 17,608 instances of bird activities in and around solar PV facilities but has recorded zero collision events (Hamada et al., 2024). Birds were observed flying above, flying through, and perching on solar panels during the study, but not colliding with panels, supporting conclusions from the fatality monitoring studies that collisions are rare.

The Easley Project would use thin-film panels with anti-reflective coating, the panels would be mounted on a tracking system, and panels would be stowed at max tilt overnight, all of which have been shown to reduce risk of any "lake effect". MM BIO-8 (Bird and Bat Conservation Strategy), as detailed above for Native Birds, would require the Applicant to prepare a BBCS (Appendix M) that would identify potential hazards to birds and bats during construction and O&M in conformance with guidelines recommended by USFWS. The Plan specifies measures to recognize, minimize, and avoid hazards, including collision, and describes procedures for reporting and handling dead or injured wildlife. The plan requires provisions for adaptive management to detect and evaluate Project related death and injury of birds, based on the results of similar monitoring at other solar project sites in the vicinity. with provisions for adaptive management to monitor the death and injury of birds, based on the results of similar monitoring at other solar project sites in the vicinity. Resulting data would be used to inform adaptive measures needed to mitigate or minimize Project-related avian impacts, which may include implementing additional mortality monitoring, installing bird deterrents, or adjusting overnight orientation/tilt of solar panels. Adaptive management during O&M would minimize adverse impacts to birds flying over the Project site._By implementing adaptive management, instances of mortality associated with solar facilities would be identified and managed to reduce impacts from collision with solar panels.

Impacts to birds due to electrocution are discussed below for gen-tie lines.

In addition to CMAs previously detailed for all special-status wildlife species, the following CMAs would be implemented to minimize impacts to native birds on BLM land in the Project site:

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- LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs) requires measures to avoid and minimize impacts to birds and bats, such as managing lighting that will not attract birds and bats and monitoring for birds and bat mortality on the Project site. The CMA requires that a Bird and Bat Conservation Strategy (BBCS) be developed to assess operational impacts to birds and bats, incorporating a bird and bat use and mortality monitoring program during operations, using current protocols and best procedures available at time of monitoring. By implementing the requirements of the BBCS, bird injury and mortality from work site hazards and Project related risks during operation of the solar facilities (collision, electrocution) would be adaptively managed and reduced.
- LUPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species) requires that activities within 0.25 mile of a riparian or wetland vegetation type that may impact riparian and wetland birds would be surveyed with pre-construction/activity nesting bird surveys. Surveys and monitoring would identify nesting birds, nests, eggs, and young that require protection from direct mortality, injury, and destruction and would minimize disturbance from construction noise, vibrations, dust, lighting, and increased human presence, which could otherwise result in nest abandonment.
- LUPA-BIO-COMP-2 (Compensation [Birds and Bats]) requires that compensation for the mortality impacts to birds and bats from the Project be determined based on monitoring of bird and bat mortality and a fee reassessed every 5 years to fund compensatory mitigation. Monitoring must inform the amount and type of compensation required to offset the effects. Compensation will be satisfied by restoring, protecting, or otherwise improving habitat or non-restoration actions that reduce mortality risks, such as increased predator control and protection of roosting sites from human disturbance. By monitoring bird and bat mortality, the level of impact and associated compensation will be adequately identified.
- LUPA-BIO-IFS-11 (Bendire's Thrasher) requires biological monitoring to ensure that individuals are detected in the Project area and are not directly injured or killed.

By identifying potential hazards to birds and bats during construction and O&M, and monitoring for injury and mortality from work site and Project related hazards, implementation of these CMAs on BLM land would ensure that impacts are adaptively managed and reduced. Protecting nesting birds would avoid direct mortality or injury, destruction of nests, eggs, and young, and disturbance of nesting behaviors from construction.

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, il-mpacts to native birds would be mitigated to less than significant. With implementation of the mitigation measures described above, impacts to native birds would be less than significant.

Western Burrowing Owl. Two burrowing owls, eight burrows, and sign were observed at the Project site and suitable habitat is present. Potential direct Project impacts to burrowing owls include mechanical crushing of individuals or burrows by vehicles and construction equipment, habitat loss <u>and degradation</u>, and noise and disturbance to surrounding habitat.

<u>MMs BIO-1 through BIO-5, as previously described, would In addition to MMs BIO-1 to BIO-6, previously</u> <u>detailed, minimize adverse impacts to native vegetation. MMs BIO-6 (Wildlife Protection), MM</u> BIO-8 (Bird and Bat Conservation Strategy) (Appendix M), as previously described, would identify Project related <u>hazards and adaptively manage for Project related bird mortality detected on the Project site. By implementing adaptive management, instances of mortality associated with solar facilities would be identified and managed to reduce impacts from Project related hazards. MM BIO-9 (Nesting Bird Management Plan) (Appendix O), as previously described, requires performing pre-construction nest surveys and imple-</u>

menting buffers and monitoring around active nests, which would protect nesting burrowing owls from disturbance due to increased noise, dust, vibration, and human presence and from direct destruction of nests, eggs, and young.

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, and MM BIO-10-11 (Burrowing Owl Avoidance and Relocation) would prevent or minimize potential injury to burrowing owl by requiring site inspections, species avoidance, pre-construction nest-surveys in accordance with CDFW protocols, identification and buffering of occupied active burrows, and safe exclusion of owls through passive relocation during the non-breeding season, and excavation of unoccupied burrows to prevent future use. Identification of individuals and avoidance of active burrows would minimize disturbance. Passive exclusion of individuals from burrows would prevent entrapment during construction and avoid direct injury and mortality. Compensatory mitigation for burrowing owl shall include suitable habitat for the species at a minimum of 1:1 ratio, in coordination with CDFW. Compensation would offset loss of suitable habitat.

MM BIO-13 (Wildlife Protection and Relocation Plan) (Appendix R) directs the development of a Wildlife Protection and Relocation Plan to identify and describe species-specific procedures for burrowing owl, desert tortoise, desert kit fox, and American badger. The Plan would require pre-construction wildlife clearance surveys; construction monitoring; species-specific surveys; requirements for buffers, avoidance, and monitoring; exclusion and relocation methods; and procedures for handling and transporting individuals. The Plan identifies an adaptive management strategy to identify and remediate Project related impacts to special-status wildlife, such as increased surveying, monitoring, and buffer distances; seasonally restricting activities; or adding more artificial burrows. By performing protocol surveys, individuals and burrows would be buffered to avoid direct injury or mortality. Passive exclusion of individuals would prevent entrapment during construction, avoid the need for handling, and avoid direct injury and mortality. Collapsing inactive burrows prevents further use to avoid future risk to the species from construction in the Project area. Construction of artificial burrows would increase opportunities for successful relocation. These measures are expected to effectively avoid lethal take of burrowing owls by excluding them from the Project area or if active nests are present, by avoiding disturbance in surrounding buffer areas.

In addition to the CMAs previously described for all special-status wildlife species, the following CMAs would be implemented on BLM land within the Project site to minimize impacts to western burrowing owl:

LUPA-BIO-IFS-12 to -14 (Burrowing Owl) requires biological monitoring for occupied burrowing owl burrows and establishment of a setback to minimize disturbance during the nesting period. If burrows cannot be avoided, owls must be passively excluded or translocated and empty burrows collapsed by a designated biologist when empty using CDFW protocols. Passive exclusion of individuals from burrows would prevent entrapment during construction and avoid direct injury and mortality.

These measures are expected to effectively avoid lethal take of burrowing owls by avoiding disturbance of individuals and nests in surrounding buffer areas, protecting them from work site hazards, and passively excluding them from the Project area.

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, il-mpacts to the species would be mitigated to less than significant.

Golden eagle. Golden eagles are protected under the federal BGEPA as well as the MBTA and California Fish and Game Code. The site does not provide suitable golden eagle nesting habitat. However, the site provides suitable foraging habitat, and is within potential foraging distance of known golden eagle nesting territories located in the Eagle Mountains, Coxcomb Mountains, and Chuckwalla Mountains. Golden eagles may be at risk of collision with gen-tie lines due to their large size.

In addition to MMs BIO-1 to BIO-6, previously detailed, Loss of foraging habitat may affect golden eagles during nesting, winter, or migratory seasons. MMs BIO-1 through BIO-5, as previously described, would minimize adverse impacts to native vegetation. Additionally, MM BIO-8 (Bird and Bat Conservation Strategy) requires a Bird and Bat Conservation Strategy (BBCS) (Appendix M) that would identify and manage potential Project related hazards to birds and bats during construction and O&M, and adaptively manage for bird mortality related to the Project. By implementing the requirements of the BBCS, instances of bird injury and mortality associated with solar facilities would be minimized. MM BIO-9 (Nesting Bird Management Plan) (Appendix O) requires performing pre-construction nest surveys and implementing buffers and monitoring around active nests, which would protect nesting golden eagles in the vicinity from disturbance due to increased noise, dust, vibration, and human presence, which may lead to nest abandonment.

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In addition to the CMAs previously described for all special-status wildlife species, the following CMA would be implemented on BLM land within the Project site to minimize impacts to golden eagle:

LUPA-BIO-IFS-25 (Golden Eagle) requires that cumulative loss of golden eagle foraging habitat within a 4-mile radius around nests must be less than 20% of available habitat. By restricting the loss of foraging habitat, disturbance to golden eagles would be minimized.

would require the Applicant to prepare and implement an overall strategy to avoid, minimize, or mitigate the Project's impacts to birds and bats, including golden eagles, through gen-tie design, and, if necessary, operations monitoring and implementation of adaptive measures, to further reduce effects. The<u>se</u> proposed mitigation measures are expected to effectively <u>avoid and</u> minimize any <u>impacts</u> and take of golden eagles and to offset habitat loss.

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, il-mpacts to the species would be mitigated to less than significant.

Other Special-Status Raptors. Several other special-status raptors have been reported on or near the Project site or are likely to occur in the area seasonally. Migratory raptors, including ferruginous hawk, Swainson's hawk (see Impact BIO-2), northern harrier, and short-eared owl migrate through the region during spring or fall migration or may spend winters in the vicinity but would not nest on or near the Project site due to absence of suitable habitat. American peregrine falcon and elf owl (see Impact BIO-2) may forage on the Project site, and marginal nesting habitat for elf owl is present. Prairie falcon would be expected to nest in the surrounding mountains and to forage over the site at any time of year. The Project's potential impacts to prairie falcon nesting and foraging habitat would be similar to those described for golden eagle.

MMs BIO-1 through BIO-5, as previously described, would minimize adverse impacts to native vegetation. In addition to MMs BIO-1 to BIO-6, previously detailed, MM BIO-8 (Bird and Bat Conservation Strategy), as previously described, requires implementation of a BBCS (Appendix M) to identify, minimize, and avoid Project related hazards to birds and bats, provide procedures for handling and reporting dead and injured wildlife, and describe a strategy for post-construction adaptive management for bird and bat mortality associated with the Project. By implementing the requirements of the BBCS, instances of raptor injury and mortality associated with solar facilities would be adaptively managed and impacts would be minimized. MM BIO-9 (Nesting Bird Management Plan) (Appendix O) requires performing pre-construction nest surveys and implementing buffers and monitoring around active nests, which would protect nesting raptors from disturbance due to increased noise, dust, vibration, and human presence and from direct destruction of nests, eggs, and young. Impacts to these species would be mitigated to less than significant.

No additional species-specific CMAs are applicable to special-status raptors beyond those previously described for all special-status wildlife species.

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to the species would be mitigated to less than significant.

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Special-Status Passerine Birds. The desert vegetation and adjacent mountains provide foraging, cover, or breeding habitat for resident and migratory special-status birds, as described in Section 3.5.1. Potential impacts to these species would be the same as those previously described for other nesting or migratory birdsnative birds.

MMs BIO-1 through BIO-5, as previously described, would minimize adverse impacts to native vegetation. In addition to MMs BIO-1 to BIO-6, previously detailed, MM BIO-8 (Bird and Bat Conservation Strategy) requires a Bird and Bat Conservation Strategy (BBCS) (Appendix M) that would identify and manage potential Project related hazards to birds and bats during construction and O&M, and adaptively manage for bird mortality related to the Project. By implementing the requirements of the BBCS, instances of special-status bird injury and mortality associated with solar facilities would be minimized. MM BIO-9 (Nesting Bird Management Plan) (Appendix O), as previously described, requires performing pre-construction nest surveys and implementing buffers and monitoring around active nests, which would protect nesting special-status birds from disturbance due to increased noise, dust, vibration, and human presence and from direct destruction of nests, eggs, and young. Impacts to special-status birds would be further minimized with MM BIO-9 (Bird and Bat Conservation Strategy), which would require pre-construction nest surveys, and protection of active nests throughout the nesting season.

In addition to the CMAs previously described for all special-status wildlife species, the following CMAs would be implemented on BLM land in the Project site to minimize impacts to passerine birds:

LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs), described in detail above, requires measures to avoid and minimize impacts to birds and bats and implementation of a BBCS to assess operational impacts to birds and bats. By implementing the requirements of the BBCS, bird injury and mortality from work site hazards and Project related risks during operation of the solar facilities (collision, electrocution) would be adaptively managed and reduced.

These measures are expected to effectively minimize adverse significant impacts to special-status birds on the <u>Project</u> site and to offset habitat loss through the acquisition and management of off-site lands. With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, il-mpacts to these species would be mitigated to less than significant.

Desert kit fox and American badger. Active and inactive desert kit fox burrows and dig marks, tracks, and/or scat were observed within the Project site, and active and inactive American badger burrows and dig marks/tracks were identified (Figure 3.5-8).

Both species could use native habitats, wherever prey animals may be present, and soils are suitable for burrows. Potential direct-impacts to American badger and desert kit fox include mechanical crushing of individuals or burrows by vehicles and construction equipment, eviction from burrows, habitat loss, loss of burrows, and noise, vibration, and disturbance to in surrounding habitat. Exclusion or security fencing could entrap desert kit foxes or badgers in the construction area. Without mitigation, impacts to desert kit fox and American badger could be locally significant.

MM BIO-1 through MM BIO-5, listed above, would minimize adverse impacts to native vegetation. In addition to MMs BIO-1 to BIO-6, previously detailed, MM BIO-6 (Wildlife Protection) and MM BIO-11-12 (Desert Kit Fox and American Badger Relocation) specifies details for surveying for desert kit fox and American badger; identifying, buffering, and monitoring active dens; and procedures for passively excluding individuals and collapsing inactive dens, in coordination with CDFW. Identification of individuals and avoidance of active dens would minimize disturbance of American badger and desert kit fox. Passive

exclusion of individuals from dens would prevent entrapment during construction and avoid direct injury and mortality. would prevent or minimize potential injury and mortality to desert kit fox and American badger.

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MM BIO-13 (Wildlife Protection and Relocation Plan) (Appendix R), as previously described for burrowing owl, directs the development and implementation of a Wildlife Protection and Relocation Plan to identify and describe species-specific procedures for burrowing owl, desert tortoise, desert kit fox, and American badger. The Plan would require pre-construction wildlife clearance surveys; construction monitoring; and species-specific surveys; requirements for buffers, avoidance, and monitoring; exclusion and relocation methods; procedures for handling and transporting individuals; and adaptive management strategies to identify and remediate Project related impacts to special-status wildlife. By performing protocol surveys, individuals and burrows would be buffered to avoid direct injury or mortality. Passive exclusion of individuals would prevent entrapment during construction, avoid the need for handling, and avoid direct injury and mortality. Collapsing inactive burrows prevents further use to avoid future risk to the species from construction in the Project area. Construction of artificial burrows would increase opportunities for successful relocation.

No additional species-specific CMAs are applicable to desert kit fox and American badger beyond those previously described for all special-status wildlife species.

These measures are expected to effectively minimize significant impacts to desert kit fox and American badger on the Project site. With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to these species would be mitigated to less than significant.

MM BIO-6 identifies practices and requirements to prevent or minimize wildlife injury and mortality, and MM BIO-11 specifies details for desert kit fox and American badger relocation, including pre-construction surveys, exclusion of animals from dens, passive relocation from the site, and avoidance of natal dens, in coordination with CDFW.

Burro deer. Nearby active agricultural areas provide a dependable water source for burro deer. Additionally, desert dry wash woodland habitat may provide seasonal foraging or cover habitat for burro deer. Burro deer scat and tracks were observed throughout the Project site. Potential impacts of the Project could include loss of habitat and restriction of movement to water sources, which would be significant. Burro deer are expected to avoid Project-related disturbance during construction and O&M, and continue to use the desert dry wash woodland habitat that is avoided by the Project to access water sources. No special measures are necessary to exclude them from work areas. Due to the Project's location on the valley floor near sites with comparable land uses and human activity patterns, the Project is not likely to impact bighorn sheep behavior or habitat, would minimize adverse significant impacts to native vegetation, including burro deer habitat used by burro deer for cover, shelter, and foraging, by restricting disturbance to work areas, promoting low impact development and preserving vegetation under solar panels, and improving post-construction habitat values. Impacts to this species would be mitigated to less than significant.

No additional species-specific CMAs are applicable to burro deer beyond those previously described for all special-status wildlife species.

Potential impacts to movement of burro deer are addressed under Impact BIO-3, below.

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, il-mpacts to this species would be mitigated to a less than significant level. **Bighorn Sheep.** Due to the Project's location on the valley floor near sites with comparable land uses and human activity patterns, the Project is not likely to significantly impact bighorn sheep behavior or habitat use. Impacts to the species would be less than significant.

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Special-Status bats. Several special-status bats could use the Project site for foraging, but only minimal suitable roosting habitat is available, as described in Section 3.5.1.4. Common bats and special-status bats may roost in desert dry wash woodland habitat on the site. As mentioned for burro deer, after construction, bats may continue to use desert dry wash woodland habitat that is avoided by the Project.

The Project could cause direct and indirect impacts to special-status bats through permanent and temporary loss or degradation of suitable foraging habitat and roosting trees and disturbance of foraging, dispersal, and breeding activities. Special-status bats may be present during construction and may be impacted by visual disturbances, noise and vibration, lighting, and dust from construction activities. Most bats would be expected to fly away from disturbances. Day roosts located within project disturbance areas, if present, may be damaged or destroyed, and individuals may be injured or killed. Individual bats in the vicinity of construction activities may be disturbed or frightened away by human presence, noise, and activity.

Project construction could have a significant affect special status bats through the elimination of desert shrubland foraging habitat. Common bats and special status bats may roost in desert dry wash woodland habitat on the site.

Solar energy development is a relatively new anthropogenic feature for bats to encounter, and responses are not well studied. Thus far, ongoing studies have shown that bats are susceptible to collisions with moving structures such as wind turbines, but infrequently collide with stationary structures (WEST, 2020). Bat mortality could also occur if individuals became trapped in other infrastructure. Bat carcasses were rarely detected at utility-scale PV solar energy facilities that have been monitored thus far (WEST, 2020). It is anticipated very few bat fatalities would occur during the life of the Project based on the absent to Very low bat fatalities discovered at <u>other regional projects in the region</u>.

As mentioned for burro deer, after construction, bats may continue to use desert dry wash woodland habitat that is avoided by the Project. MMs BIO-1 through BIO 5, described for Vegetation and Habitat, would minimize significant impacts to native vegetation, including habitat used by bats for roosting and foraging, by restricting disturbance to work areas, promoting low impact development and preserving vegetation under solar panels, and improving post-construction habitat values. MM BIO-1 through MM BIO-5 would minimize adverse impacts to native vegetation and habitat and offset the permanent habitat loss through off-site habitat compensation. MM BIO-6 (Wildlife Protection), previously described, includes a condition to inspect structures prior to demolition and remove wildlife or allow wildlife to escape, which would prevent direct mortality and injury of bats.

MM BIO-8 (Bird and Bat Conservation Strategy) (Appendix M), previously described, would require <u>a</u> project-specific risk assessment to address potential for take of birds and bats due to Project related threats including collision, electrocution, territory abandonment, nest and roost site disturbance, habitat loss and fragmentation, disturbance from human presence, and predator subsidies. The plan further additional pre-construction surveys and wildlife exclusion or scheduling of tree removal outside the bat maternal roosting season. describes a strategy for post-construction adaptive management for bird and bat mortality associated with the Project. By implementing the requirements of the BBCS, instances of bat injury and mortality associated with solar facilities would be adaptively managed and impacts would be minimized.

In addition to the CMAs previously described for all special-status wildlife species, the following CMAs would be implemented on BLM-administered land within the Project site to minimize impacts to bats:

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- LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs), described in detail above, requires measures to avoid and minimize impacts to birds and bats and implementation of a BBCS to assess operational impacts to birds and bats. By implementing the requirements of the BBCS, bird injury and mortality from work site hazards and Project related risks during operation of the solar facilities (collision, electrocution) would be adaptively managed and reduced.
- LUPA-BIO-BAT-1 (Bat Species (BAT)) requires that Project activities not be sited within 500 feet of an occupied bat maternity roost. Impacts would be avoided as maternity roosts were not identified and suitable habitat is not available in the Project area.
- LUPA-BIO-COMP-2 (Compensation [Birds and Bats]) requires that compensation for the mortality impacts to birds and bats from the Project be determined based on monitoring of bird and bat mortality and a fee reassessed every 5 years to fund compensatory mitigation. Monitoring must inform the amount and type of compensation required to offset the effects. Compensation will be satisfied by restoring, protecting, or otherwise improving habitat or non-restoration actions that reduce mortality risks, such as increased predator control and protection of roosting sites from human disturbance. By monitoring bird and bat mortality, the level of impact and associated compensation will be adequately identified.

These measures are expected to effectively minimize potential impacts on special-status bats, and to offset habitat loss. These measures would minimize and avoid disturbance, injury, and mortality of bats by identifying, monitoring, and managing project related risks. Impacts to these species would be mitigated to less than significant.

Mitigation Conclusion

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to special status wildlife would be less than significant.

500 kV Gen-Tie, Collector, and Distribution Lines

Construction of the 500 kV gen-tie line would occur through the adjacent Oberon <u>Renewable Energy</u> Project site <u>(RWQCB, 2021; BLM, 2022; Ironwood, 2021a)</u>, which is located on BLM-administered lands and was previously analyzed in the Final EIR and Final EA for the Oberon Renewable Energy Project (RWQCB, 2021; BLM, 2022; Ironwood, 2021a).

Medium voltage (34.5 kV) collection power lines would be located between inverters and the onsite substation. The Applicant anticipates undergrounding the Easley 34.5 kV collector lines except for short segments where overhead lines on wood poles may be required due to engineering or other feasibility constraints.

A new 12 kV electrical distribution line would supply electricity to the O&M building and substation, and may be installed overhead or underground from the existing SCE distribution system adjacent to the solar facility site. In addition, approximately 0.25 mile of existing SCE 12 kV distribution line would need to be relocated to accommodate development of solar panels. The relocated distribution line would be located on BLM-administered land east of SR-177/Rice Road and would follow existing linear infrastructure.

Impacts due to construction of the Easley <u>distribution</u>, <u>collector</u>, <u>and</u> <u>gen-tie</u> line<u>s</u> are described below.

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Vegetation & Habitat

Impacts Discussion

Overhead gen-tie line construction would affect vegetation and habitat at discrete disturbance sites where towers or other work activities would be located. If <u>In areas where</u> the 34.5 kV or 12 kV lines are <u>may be</u> installed overhead, similar types of impacts would occur at the pole sites located outside of the solar facility fence line. Construction would not affect most of the vegetation and habitat within the <u>overhead gen-tie routescorridors</u>. For portions of the <u>distribution and/or</u> collector lines that are buried underground, trenches would be dug through vegetated areas or desert pavement. Trenches would be backfilled with native soils and disturbance areas would be reseeded. The gen-tie line would cross desert dry wash woodland <u>and desert tortoise critical</u> habitat in the eastern portion of the Oberon Project site but impacts to habitat would be avoided except for minor incursion, <u>consistent in compliance</u> with DRECP CMAs.

Impacts to vegetation and habitat would be similar to those described for the solar facility. Vegetation would be cleared or trimmed, and soils would be disturbed. After construction, soils would be compacted due to use of heavy equipment, making vegetation difficult to regrow in those areas. Spread of invasive weeds may degrade habitat.

Mitigation of Project Impacts on Private Land

Impacts to natural habitat along the gen-tie line on the Oberon Project site can be avoided and minimized by implementing MMs BIO-1 through BIO-5, previously described for the Solar and BESS Facility.

MMs BIO-1 to MM BIO-5 require use of qualified biologists for surveying and monitoring (MM BIO-1 Biological Monitoring), training of construction personnel on identifying and avoiding sensitive plant and wildlife resources (MM BIO-2 Worker Environmental Awareness Training), clear demarcation of vegetation for removal and low impact site preparation (MM BIO-3 Minimization of Vegetation and Habitat Impacts), managing non-natives in disturbance areas (MM BIO-4 Integrated Weed Management Plan), and revegetating with native habitat (MM BIO-5 Vegetation Resources Management Plan). These measures would avoid direct disturbance and removal of vegetation and soils outside of designated work areas. The IWMP (Appendix N) would improve habitat values by preventing and controlling spread of weeds in disturbed areas. The VRMP (Appendix S) directs methods for erosion control, re-vegetating temporary disturbance areas, and salvaging seed and cacti in the Project site. By implementing seeding and revegetation, soil decompaction, erosion control, and non-native control in disturbance areas, soils would be stabilized, native vegetation would be re-established, and post-construction habitat values would be improved in the Project area.

The Project has been designed to avoid impacts to desert dry wash woodland (except for minor incursions and where there is existing intervening infrastructure) on private lands and BLM land (Section 2.7.3), consistent with DRECP CMA LUPA-BIO-RIPWET-1 (see below and in Appendix CC). Consistent with DRECP CMA LUPA-BIO-COMP-1, compensatory mitigation for minor incursions into desert dry wash woodland shall be identified prior to disturbance of the features at a minimum 5:1 ratio, as required in MM BIO-14. Compensatory mitigation for impacts to desert pavement shall be identified at a minimum ratio of 1:1, as required in MM BIO-3. Compensatory mitigation for impacts to suitable desert tortoise habitat shall be identified prior to disturbance of features at a minimum 1:1 ratio and desert tortoise critical habitat at a ratio of 5:1, as required in MM BIO-7.

Mitigation of Project Impacts on BLM Land

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant.

<u>Compliance with the following CMAs, which would be required on BLM lands, would mitigate impacts to less than significant, as described. These CMAs are described in detail for the *Solar and BESS Facility,* <u>Vegetation and Habitat in Impact BIO-1.</u></u>

- LUPA-BIO-1 (Biological Resources) requires assessments of habitat, identification of vegetation types, and protocol surveys for BLM Special Status Species where suitable habitat may be present in the Project area. Habitat assessments and protocol surveys would ensure that sensitive biological resources would be detected and identified for avoidance.
- LUPA-BIO-2 (Biological Resources) requires a designated biologist to conduct and oversee biological monitoring and reporting during pre-construction, construction, and decommissioning. Using a qualified biologist to oversee surveying, monitoring, and reporting will ensure that ground and vegetation disturbance would not be performed outside of approved work areas and that direct injury and mortality of wildlife species is avoided.
- LUPA-BIO-5 (Worker Education) requires that all activities implement a BLM-approved worker education program that describes biological resources and how to identify them, their legal protections, minimization and mitigation measures, and reporting requirements. Comprehensive training of on-site workers would ensure that they limit ground disturbance to work areas and that they avoid sensitive habitats and special-status species.
- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance) requires that temporary impact areas be restored using site-specific seed and soils, planting methods and timing, and success criteria, monitoring, and contingency measures, and that cactus be salvaged from the site and re-planted to the maximum extent practicable. Seeding, revegetation, soil decompaction, and erosion control would stabilize soils post-construction and promote native habitat recovery, which would minimize long-term impacts to native habitats and soils in the Project area.
- LUPA-BIO-10 (Standard Practices for Weed Management) requires best management practices for weed management such as cleaning tires and equipment prior to entering the site, using certified weed free construction materials, re-vegetation of disturbed areas, and monitoring, identification, and eradication of weed infestations. Identification, suppression, and containment of non-native invasives and their sources would improve post-construction habitat values in the Project area by preventing introduction and spread of weeds that outcompete native species and increase risk of wildfire.
- LUPA-BIO-11 (Nuisance Animals and Invasive Species) requires the management and proper use and disposal of herbicides and pesticides, and restriction of herbicide use near streams, washes, and surface and subsurface waters. Proper use of herbicides, in compliance with BLM guidelines, would minimize herbicide drift and spills to avoid contamination and degradation of non-target vegetation and waterways.
- LUPA-BIO-13 (General Siting and Design) requires siting and design to avoid impacts to unique plant assemblages. The CMA requires projects along the edges of the biological linkages to maximize the retention of microphyllous woodlands, in order to maintain the function of the connectivity area. The CMA requires that Project boundaries be demarcated and that Project activities, equipment, and vehicles be restricted to marked areas and existing roads and utility corridors. Lighting is required to be limited and directed away from habitat areas to minimize disturbance. Avoidance of desert dry wash

woodland would prevent direct removal of functional corridor habitat. Flagging and staking work areas would avoid ground, soil, and vegetation disturbance outside of approved boundaries, minimizing impacts to habitat in the vicinity.

7-9

- LUPA-BIO-SVF-1 (Special Vegetation Features) requires that a habitat assessment be performed for special vegetation features such as yucca, creosote rings, microphyll woodland, and Crucifixion thorn stands, which would ensure that these resources are identified and demarcated for avoidance or salvage.
- LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management) requires that management and salvage of cacti and BLM sensitive plants adhere to BLM-policies, downed wood be promoted for habitat values, and plant material be collected for re-vegetation. These measures would ensure that habitat values are improved in the Project area after construction.
- CMAs for the protection of desert dry wash woodland include LUPA-BIO-3 (Resource Setback Standards), LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species), LUPA-BIO-SVF-6 (Special Vegetation Features), LUPA-BIO-COMP-1 (Compensation), and DFA-VPL-BIO-COMP-1 (Biological Compensation). These require avoidance of desert dry wash woodland (also described as Sonoran-Coloradan Semi-Desert Wash Woodland or microphyll woodland) with a 200-foot setback buffer, except for minor allowable incursions, and compensation for impacts to desert dry wash woodland at a 5:1 ratio. Avoidance of desert dry wash woodland with a setback buffer would prevent direct removal of sensitive habitat. A 200-foot setback would reduce degradation from disturbance in adjacent areas.

Similar to the requirements of the MMs that would be implemented on private land within the Project site, CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would preserve sensitive habitat in the Project area and minimize impacts to vegetation.

Mitigation Conclusion

which require revegetation of short-term impact areas, pre-construction surveys and marking of sensitive resources, management plans, and construction crew training, thereby minimizing impacts to vegetation and habitat. Additionally, similar mitigation measures required to be implemented for the Oberon Project are included in its Final EIR (RWQCB, 2021) and Final EA (BLM, 2022). With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site impacts to vegetation and habitat along the gen-tie line would be less than significant. Conservation Management Actions (CMAs) would also be implemented on BLM lands per the DRECP, as described in the Final EA for the Oberon Project.

Special-status Plants

Impacts Discussion

Construction activities may result in direct impacts to special-status plants, including loss of individuals.

Desert unicorn plant and spiny abrojo were observed on the Oberon Project site near the proposed gentie line. Desert unicorn plant was observed in 40 locations throughout the site, with several observations located in desert dry wash woodland in the eastern portion of the site. Desert dry wash woodland would be avoided by the Project and impacts along the gen-tie line would be occur in discrete areas, minimizing impacts to individuals. Spiny abrojo, a conspicuous shrub, was observed in one location to the south outside the gen-tie corridor and would not be impacted by the gen-tie line. Emory's crucifixion thorn was observed on the Oberon Project site <u>near Rice Road</u>, in the vicinity of the Easley gen-tie line, but the gen-tie line would not cross near the plant <u>and it would not be impacted by</u> the Easley Project. Two creosote rings were observed on the Oberon Project site, north of the overhead lines, and would not be impacted by the Easley Project.

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No other special-status plant species were observed; however, suitable habitat for glandular ditaxis, California ditaxis, and Utah milkvine is located on the Oberon Project site along the overhead lines. Protected desert native plants, as listed in Section 3.5.1.3, were observed in the Project area (Refer to the BRTR [EIR Appendix C] for a map of locations). Mitigation measures for the Oberon Project would avoid and minimize impacts to Emory's crucifixion thorn (RWQCB, 2021; BLM, 2022).

Desert unicorn-plant and spiny abrojo were observed on the Oberon Project site; however, as a CRPR 4 (watch list) species without additional reasons for conservation concern (e.g., geographic range, unusual morphology, or unusual habitat/substrate), potential impacts to desert unicorn plant and spiny abrojo are not significant (RWQCB, 2021; BLM, 2022). No other special status plant species were observed or had a high potential to occur, but there is a possibility that several CRPR ranked 3 and 4 species could occur in a year of better rainfall. However, potential impacts to these plants would be less than significant due to their relatively low conservation status and regional occurrences outside the Project vicinity.

Impacts to special-status plants and protected native desert species would be similar to those previously described for Vegetation and Habitat. Potential direct impacts to special-status plants may include direct crushing, burial, or uprooting of individual plants; root damage; disturbance of seed banks, underground dormant plants, and plant nutrients; burial or scour of plants from altered runoff, sedimentation, and erosion; and disruption of photosynthesis from fugitive dust. These impacts would result from trimming, cutting, or removing vegetation, grading, earth-moving, and vehicle traffic.

Indirect impacts to special-status plants may occur from incidental introductions of invasive weeds that outcompete native species and reduce habitat quality. Although some impact areas may be temporarily disturbed, the effects to special-status plants may be long-term or permanent in that area due to changes in soil conditions and seed banks after construction.

Mitigation of Project Impacts on Private Land

As previously described, impacts to vegetation and special status plants for the Easley Project would also be avoided and minimized by implementing MMs BIO-1 through BIO-5, which would ensure that disturbance of vegetation and habitat is minimized and restricted to designated and demarcated work areas, that low impact site preparation would be implemented to preserve vegetation for recovery, that seeds of special-status plants would be salvaged for re-vegetation, and that post-construction habitat values would be improved. By avoiding desert dry wash woodland, constructing the gen-tie line in discrete areas, and salvaging seeds from impacted special-status plants, impacts would not be significant.

Avoidance of desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would preserve native habitat values and offset habitat loss.

Mitigation of Project Impacts on BLM Land

The Project is required to comply with DRECP CMAs for all Project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with these CMAs, which would be required on BLM lands, would mitigate impacts to less than significant, as described.

The following CMAs, previously detailed for Vegetation and Habitat, would also reduce impacts for special-status plants for the same reasons as described above in the discussion of impacts to Vegetation and Habitat:

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- LUPA-BIO-1 (Biological Resources).
- LUPA-BIO-2 (Biological Resources).
- LUPA-BIO-5 (Worker Education).
- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance).
- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- LUPA-BIO-SVF-1 (Special Vegetation Features).
- LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management).
- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

Similar to the requirements of the MMs that would be implemented on private land within the Project site, these CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would preserve sensitive habitat in the Project area and prevent degradation from disturbance in adjacent areas. Compensation would offset habitat loss.

Additionally, the following CMA would be implemented on BLM land within the Project site to minimize impacts to special-status plants:

LUPA-BIO-PLANT-1 (Plant Species [PLANT]): Plant Focus and BLM Special Status Species CMAs) requires properly timed protocol surveys for BLM Special Status Plant Species, which would ensure identification of special-status plants in disturbance areas that require demarcation for avoidance or salvage.

By identifying individual special-status plants in the Project area, they could be avoided or salvaged for post-construction re-vegetation promoting recovery of habitat values.

Mitigation Conclusion

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site impacts to special-status plants along the gen-tie line would be less than significant.

Special-Status Wildlife

Impacts Discussion

Gen-tie construction activities could dissuade special-status wildlife from approaching construction areas due to noise and disturbance. Wildlife present in work areas could be impacted as described for the solar facility. Construction could result in direct mortality or injury from construction equipment and wildlife dispersing from work areas could be at increased risk of predation or vehicle strikes. In most cases, adult birds would fly away from the disturbance, but bird nests (including eggs or nestlings, if present) would be lost. Displaced wildlife may be unable to find suitable food or cover in new, unfamiliar areas. Gen-tie

facilities could present electrocution and other pitfall hazards. Increased human presence, noise, and lighting during construction could affect wildlife in adjacent habitats by disrupting foraging, breeding, sheltering, and other activities; or may cause wildlife to avoid otherwise suitable habitat surrounding the site. <u>These effects would be temporary (limited to construction phase) and would occur in discrete and dispersed work areas.</u>

7-9

Once completed, the gen-tie lines would have minimal effects on terrestrial wildlife movement because no new barrier to movement would be constructed beneath the line. However, the gen-tie towers and conductors would present a collision hazard for birds, as described in detail below.

Mitigation of Project Impacts on Private Land

As previously described, impacts to wildlife habitat would be avoided and minimized by implementing MMs BIO-1 through BIO-5, which would ensure that disturbance of wildlife habitat is minimized and restricted to designated and demarcated work areas and that post-construction habitat values would be improved. The Project has been designed to avoid desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7), would preserve habitat values for wildlife and offset habitat loss.

These effects would be temporary (limited to construction phase) and would occur in discrete work areas. MM BIO-6 (Wildlife Protection)_-identifies numerous <u>identifies numerous requirements to manage hazards</u> to wildlife in work areas and report dead or injured wildlife. By performing site inspections; restricting vehicle speed limits; monitoring for wildlife entrapment and providing means of escape in trenches, holes, piping, or water tanks; managing food, trash, and water subsidies; and properly handling hazardous materials, predation, injury, and mortality of special-status wildlife would be reduced. These measures would increase detection of wildlife that require avoidance in Project areas and would prevent attraction to the Project site where there is increased likelihood of disturbance.requirements during construction to avoid, minimize, and mitigate wildlife injury and mortality, such as site inspections, ramps to ensure escape from excavations, prevention of attractants such as trash or water, hazardous material avoidance, and vehicle speed limits.

Once completed, the gen-tie lines would have minimal effects on terrestrial wildlife movement because no new barrier to movement would be constructed beneath the line. However, the gen tie towers and conductors would present a collision hazard for birds, as described in detail below.

MM BIO-8 (Bird and Bat Conservation Strategy) (Appendix M), as previously described, would identify Project related hazards and adaptively manage for Project related bird mortality detected on the Project site. By implementing adaptive management, instances of mortality associated with solar facilities would be identified and managed to reduce impacts from Project related hazards. MM BIO-9 (Nesting Bird Management Plan) (Appendix O), as previously described, requires performing pre-construction nest surveys and implementing buffers and monitoring around active nests, which would protect nesting birds from disturbance due to increased noise, dust, vibration, and human presence and from direct destruction of nests, eggs, and young.

BIO-8 (Bird and Bat Conservation Strategy) would require pre-construction surveys to identify active bird nests, and avoidance of disturbance or disruption nesting behavior, as well as implementation of an adaptive management framework for O&M monitoring of bird mortality, if mortality thresholds are exceeded, based on monitoring at other solar sites.

Transmission structures and fencing would provide increased perching opportunities for predatory birds, including raptors and ravens, which may prey on special-status species. MM BIO-7 (Desert Tortoise Protection) includes preparing preparation and implementing implementation of a Raven Management

Plan that would manage raven-work site subsidies and attractants to minimize predation, as described in detail in Impact BIO-2. MM BIO-910 (Gen-tie Lines) requires the gen-tie structures be designed in conformance with APLIC guidelines (2006, 2012) to discourage use by raptors for perching or nesting, as described in detail below.

7-9

Electrocution

After completion of construction and throughout the life of the Project, the gen-tie line may present an electrocution risk. Birds and bats may collide with the overhead lines, including the gen-tie transmission line. Underground gen-tie lines would not present an electrocution hazard.

While few nocturnal migrant passerines have been found in the solar arrays, more have been found underneath the gen-tie lines at the solar projects. Large birds can be electrocuted by transmission lines if the bird's wings simultaneously contact conductors, or a conductor and a ground. This happens most frequently when a bird attempts to perch or take off from a structure with insufficient clearance between these elements. Configurations less than 1 kV or greater than 69 kV, like the proposed 500 kV gen-tie line, typically do not present an electrocution potential, based on conductor placement and orientation (APLIC, 2006, 2012). Distribution lines that are less than 69 kilovolts (kV) but greater than 1 kV generally have less spacing than transmission lines, thus posing an electrocution hazard for perching raptors.

Based on studies of the gen-ties associated with other desert solar projects, it is estimated approximately 60 birds per km per year may collide with the lines. Seven detections of fatalities of specialstatus yellow warblers have been reported during surveys of the gen-tie lines at the neighboring desert solar sites. The predicted mortality value for the gen-tie line is 300 bird fatalities per year.

Based on information from other solar projects in the California desert, Project-related bird mortality is likely to range from a low of 0.4 birds per acre per year up to 1.7 birds per acre per year (BLM, 2018). Post-construction monitoring data was collected from regional Sonoran and Mojave Deserts (SMD) projects. The SMD projects annual fatality rates range from 0.08 to 2.99 birds per MW per year, with a mean of 1.31 birds per MW per year. Based on studies of the gen-ties associated with Blythe, McCoy, and Desert Sunlight Solar projects, it is estimated approximately 60 birds per km per year may collide with the lines (WEST, 2020).

Using these average values, approximately 655 (1.31 x 500 MW) bird fatalities are predicted annually in the solar arrays. An additional 432 bird fatalities (60 x 7.2 km (4.5 miles)) are predicted annually along the gen-tie in an average year (WEST, 2020).

Without implementation of mitigation measures, the proposed Project could cause significant impacts to native birds including mortality or injury in the Project area during construction, O&M, and decommissioning activities. For taller structures, such as the gen-tie line, the Project will would be designed to be raptor-safe in accordance with Avian Power Line Interaction Committee (APLIC) guidelines and best management practices (2006, 2012).

MM BIO-9-10 (Gen-tie Lines) would require mechanisms in accordance with APLIC standards (APLIC 2006, 2012) to visually warn birds such as permanent markers or bird flight diverters; avoid or minimize use of guy wires; and maintain sufficient distance between all conductors and grounded components to prevent electrocution of large birds. By implementing these design features, injury and mortality from electrocution would be minimized. While the recommendations from APLIC are primarily focused on avoiding and minimizing impacts to birds, the recommendations and best practices would also benefit bats.

With implementation of mitigation measures, impacts due to electrocution during O&M would be reduced to less than significant. These measures would effectively minimize impacts near the proposed gen tie routes to less than significant.

7-9

Mitigation of Project Impacts on BLM Land

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. The following CMAs, previously detailed for Vegetation and Habitat, would reduce impacts to wildlife habitat used by special-status species for the same reasons as described above in the discussion of impacts to Vegetation and Habitat:

- <u>LUPA-BIO-1 (Biological Resources).</u>
- <u>LUPA-BIO-2 (Biological Resources).</u>
- LUPA-BIO-5 (Worker Education).
- <u>LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term</u> <u>Disturbance).</u>
- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

Similar to the requirements of the MMs that would be implemented on private land within the Project site, these CMAs reduce impacts to wildlife and habitat by requiring qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot setback buffer would prevent direct removal of sensitive habitat used by many wildlife species for foraging, shelter, breeding, and movement through the Project vicinity. A 200-foot setback would reduce degradation from disturbance in adjacent areas.

The following CMAs, previously described, would be implemented to minimize impacts to special-status wildlife along the gen-tie line for the same reasons as described above in the discussion of impacts to special-status wildlife in the Solar and BESS facility:

- <u>LUPA-BIO-4 (Seasonal Restrictions).</u>
- LUPA-BIO-6 (Subsidized Predators Standards).
- LUPA-BIO-12 (Noise).
- LUPA-BIO-14 (Biology: General Standard Practices).
- LUPA-BIO-15 (Biology: General Standard Practices).
- DFA-BIO-IFS-1 to -3 (Biological Resources).
- LUPA-BIO-9 (Water and Wetland Dependent Species Resources)
- LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs)
- LUPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species)
- LUPA-BIO-COMP-2 (Compensation (Birds and Bats))
- LUPA-BIO-IFS-11 (Bendire's Thrasher)
- LUPA-BIO-IFS-12 to -14 (Burrowing Owl)
- LUPA-BIO-IFS-25 (Golden Eagle)
- DFA-BIO-IFS-2 (Biological Resources)

- LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs)
- LUPA-BIO-BAT-1 (Bat Species (BAT))
- LUPA-BIO-COMP-2 (Compensation (Birds and Bats))

Similar to the requirements of MMs that would be implemented on private land within the Project site, these CMAs reduce disturbance, injury, and mortality of wildlife species, by surveying and buffering for individuals, limiting work during species active seasons, and managing work site hazards and sources of disturbance such as predator subsidies, entrapment hazards, noise, and lighting. Species-specific survey, buffering, and exclusion and relocation requirements will ensure that special-status wildlife are avoided and that disturbances to foraging, sheltering, breeding, and movement are minimized.

Additionally, CMA LUPA-TRANS-BIO-1, -2, and -4 (Biological Resources) requires that transmission lines be developed along roads, other previously disturbed areas, or designated utility corridors; reduce perching opportunities for common raven; and minimize collision risk for birds and bats. Flight diverters must be used on transmission lines within 1,000 feet of stream and wash channels and other bodies of water. Transmission lines must be sited to avoid rare vegetation alliances and sand dependent habitats that support BLM Special Status Species. By implementing these design features, habitat disturbance along the gen-tie line would be minimized, perching of predatory birds would be managed, and injury and mortality of birds and bats from electrocution from the gen-tie lines would be avoided and minimized.

Mitigation Conclusion

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site impacts to special-status wildlife along the gen-tie line would be less than significant.

Operations and Maintenance and Decommissioning

Proposed O&M and decommissioning activities would have similar direct and indirect impacts to vegetation and habitat, special-status plants, and special-status wildlife, as described above. However, the scale of impacts would be less than construction impacts because O&M and decommissioning activities would mostly occur in areas previously disturbed by construction.

During O&M, impacts would be limited to repairs and maintenance of solar panels, associated electrical components, O&M facilities, access roads, fencing, drainages, and culverts. Vegetation would be trimmed infrequently in discrete locations and no heavy equipment would be used for normal operation. Any ground disturbance may result in soil erosion. Herbicides used to manage weed infestations may degrade non-target vegetation in adjacent areas. Washing of solar panels would introduce additional water to the site, which would supplement natural sources and may affect vegetation composition or persistence. However, panel washing would be performed infrequently (up to four times each year) if natural rains do not sufficiently clear dust and debris. No chemical agents would be used for module washing. It is not expected that panel washing and the supplemental water would be enough to affect vegetation community composition or persistence. If the Proposed Project facility elevates ambient temperature within the site, surrounding vegetation and habitat may be indirectly impacted.

Facilities would be fenced, excluding larger wildlife, while small mammals and reptiles may pass through fencing to occupy the areas around O&M facilities, where they may be at risk of vehicle strike. Birds within the facility may be at risk of injury from collision with solar panels or electrocution from the gen-tie lines, as described for native birds. During O&M, herbicides used to treat invasive weeds may also pose risks to terrestrial or aquatic wildlife species. Herbicides that persist on site could injure wildlife that ingest target plants or come into contact with herbicides (e.g., by digging or rolling in treated soil).

O&M related ground disturbance may result in direct crushing or burial of wildlife where repairs or replacement are needed. Maintenance around facilities may temporarily increase human presence,

opportunistic predators, noise, dust, and vehicle traffic, which may disrupt wildlife behavior or cause mortality.

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Impacts during Project decommissioning would be similar to those during construction and would occur in previously disturbed areas. Decommissioning activities would require similar equipment and workforce as construction but would be substantially less intense, including removal of all equipment and cables, facilities, primary roads, and concrete pads. During decommissioning, habitat disturbance may result from disassembling and transporting facilities, or from site remediation. The Project would be dismantled as described in Section 2.6, per an agency-approved Closure and Decommissioning Plan, and a majority of components would be recycled or reused. Following decommissioning, the Proposed Project site would be revegetated with native plants and re-seeded as required by the Decommissioning Plan.

Direct and indirect impacts to habitat from O&M and decommissioning would be minimized <u>and</u>, avoided, or offset with measures such as biological monitoring by qualified biologists; worker training on sensitive biological resources; flagging, surveying, and monitoring of work areas; weed management; restoration of disturbed areas; protection of wildlife and special-status species; and protection of jurisdictional waters, as previously described for MMs BIO-1 through BIO-<u>1214</u>. CMAs, as previously outlined for construction, would be implemented to reduce impacts.

These measures would restrict impacts to designated work areas, ensure that native habitat values are improved post-construction, and reduce injury and mortality of special-status wildlife that may occur in the Project area.

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to specialstatus species and their habitat during O&M and decommissioning would be reduced to less than significant.

Mitigation Measures for Impact BIO-1

The full text of the following mitigation measures is included in Section 3.5.93.5.7 (Mitigation Measures).

- MM BIO-1 Biological Monitoring.
- MM BIO-2 Worker Environmental Awareness Training.
- MM BIO-3 Minimization of Vegetation and Habitat Impacts.
- MM BIO-4 Integrated Weed Management Plan.
- MM BIO-5 Vegetation Resources Management Plan.
- MM BIO-6 Wildlife Protection.
- MM BIO-8 Bird and Bat Conservation Strategy.
- MM BIO-9 Nesting Bird Management Plan.
- MM BIO-109 Gen-tie Lines.
- MM BIO-110 Burrowing Owl Avoidance and Relocation.
- MM BIO-121 Desert Kit Fox and American Badger Relocation.
- MM BIO-13 Wildlife Protection and Relocation Plan.
- MM BIO-142 Streambed and Watershed Protection.

DRECP CMAs for Impact BIO-1

Applicable CMAs are detailed in Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA.

7-9

LUPA-BIO-1 (Biological Resources).

LUPA-BIO-2 (Biological Resources).

LUPA-BIO-5 (Worker Education).

<u>LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term</u> <u>Disturbance).</u>

LUPA-BIO-10 (Standard Practices for Weed Management).

LUPA-BIO-11 (Nuisance Animals and Invasive Species).

LUPA-BIO-13 (General Siting and Design).

LUPA-BIO-SVF-1 (Special Vegetation Features).

LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management).

LUPA-BIO-3 (Resource Setback Standards).

LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).

LUPA-BIO-SVF-6 (Special Vegetation Features).

LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

LUPA-BIO-PLANT-1 (Plant Species (PLANT): Plant Focus and BLM Special Status Species CMAs)

LUPA-BIO-4 (Seasonal Restrictions).

LUPA-BIO-6 (Subsidized Predators Standards).

LUPA-BIO-12 (Noise).

LUPA-BIO-14 (Biology: General Standard Practices).

LUPA-BIO-15 (Biology: General Standard Practices).

DFA-BIO-IFS-1 to -3 (Biological Resources).

LUPA-BIO-9 (Water and Wetland Dependent Species Resources)

LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs)

LUPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species)

LUPA-BIO-BAT-1 (Bat Species (BAT))

LUPA-BIO-COMP-2 (Compensation (Birds and Bats))

LUPA-BIO-IFS-11 (Bendire's Thrasher)

LUPA-BIO-IFS-12 to -14 (Burrowing Owl)

LUPA-BIO-IFS-25 (Golden Eagle)

LUPA-TRANS-BIO-1, -2, and -4 (Biological Resources)

Significance After Mitigation

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, t3.5-61efrThis impact would be less than significant with implementation of mitigation measures identified above.

7-9

Impact BIO-2. The Project would have a substantial adverse effect, either directly or through habitat modifications, on any endangered, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12).

LESS THAN SIGNIFICANT WITH MITIGATION. Potential effects on threatened and endangered species could result from construction or operation and maintenance (O&M) of the proposed Project. Similar to the impacts to special-status species (Impact BIO-1), construction and O&M activities may result in direct and indirect impacts to threatened and endangered wildlife, including loss of individuals. No listed threatened or endangered plant species were observed or have the potential to occur on the Project site or in the vicinity. The gen-tie line overlaps with critical habitat for desert tortoise, located in the southern portion of the Oberon Project site.

Construction activities would minimize ground disturbance, grubbing, and grading using mowing and rolling methods for vegetation in the solar array areas. Specific facilities, including the substation, storage containers, O&M facilities, laydown yards, pre-fabrication areas, and roads would require ground disturbance in the form of mowing, grubbing, grading, and compaction. Construction would involve minor changes to on-site topography. The proposed layout of solar panels would avoid major existing hydrologic patterns with respect to runoff, avoiding washes, stream beds, stream banks, where feasible. The Project has been designed to avoid desert dry wash woodlands, except for minor incursions and where there is intervening infrastructure, consistent with DRECP CMAs, and impacts to jurisdictional drainages would be regulated with permits from CDFW and RWQCB and through implementation of mitigation measures and CMAs described below.

During O&M, impacts would be reduced compared to construction, and would be limited to repair and maintenance of facilities and fencing, requiring minimal staff on site. Vegetation under solar panels would continue to be trimmed, and panels would be washed infrequently if natural rains do not sufficiently remove dust and debris. Vehicles would be used to access Project facilities, which may create a hazard for wildlife in the vicinity of access roads.

Potential direct and indirect impacts on threatened and endangered wildlife are outlined below for the solar facilities and the gen-tie line. Direct and indirect impacts to threatened and endangered species and their habitat would be significant. Impacts on private land portions of the project would can be avoided, minimized, and mitigated with implementation of MMs specified in Section 3.5.93.5.7 and listed below. Compliance with applicable <u>DRECP</u> CMAs (EIR Appendix CC) on BLM lands would further minimize impacts of the proposed Project on threatened and endangered species on BLM-administered land. Construction activities would minimize grubbing and grading, except for specific facilities.

- MM BIO-1 (Biological Monitoring)
- MM BIO-2 (Worker Environmental Awareness Training)
- MM BIO-3 (Minimization of Vegetation and Habitat Impacts)
- MM BIO-4 (Integrated Weed Management Plan)
- MM BIO-5 (Vegetation Resources Management Plan)
- MM BIO-6 (Wildlife Protection)
- <u>MM BIO-7 (Desert Tortoise Protection)</u>
- MM BIO-8 (Bird and Bat Conservation Strategy (BBCS))

- MM BIO-9 (Nesting Bird Management Plan (NBMP))
- MM BIO-10 (Gen-tie Lines)
- MM BIO-13 (Wildlife Protection and Relocation Plan)
- MM BIO-14 (Streambed and Watershed Protection)

A detailed discussion of impacts and mitigation is provided below for vegetation and habitat, threatened and endangered plants, and special-status wildlife. With (1) implementation of the identified mitigation measures on private land portions of the Project, and (2) implementation of the identified CMAs on BLM land portions of the Project, impacts to threatened and endangered species and associated habitat would be less than significant.

Solar and BESS Facility

Vegetation and Habitat

Impacts Discussion

The Project would permanently impact native habitats as shown in Figure 3.5-2 and Tables 3.5-1a and 3.51b. Impacts to desert dry wash woodland, a sensitive community, are detailed further in the discussion of Impact BIO-4 and would occur almost exclusively on public lands (BLM). All affected habitats may support endangered or threatened wildlife species (described below).

Vegetation, including native vegetation and habitat, would be cut or removed. Soils throughout the solar fields would be affected by some form of ground disturbance, which may result in erosion or compaction. Construction activities could accumulate dust on vegetation, which could diminish gas exchange or photosynthesis. Altered hydrology from site preparation could directly or indirectly affect native habitats by increasing stormwater runoff, increasing erosion, and degrading habitat conditions. Disturbance of native habitats may result in the spread of invasive weed species, which would degrade habitat quality, and use of herbicides for non-native control may impact non-target vegetation. Impacts to soils and vegetation, in turn, would affect threatened and endangered wildlife that may be present by collapsing burrows and removing vegetation used as cover, nesting, and foraging, and migratory stopover habitat.

During construction, the Project would temporarily affect surrounding habitat by introducing heavy equipment, vibrations, noise, lighting, dust, and increased human presence, resulting in disturbances that would affect wildlife behavior.

Washing of solar panels would introduce additional water to the site, which would supplement natural sources and may affect vegetation composition or persistence; however, panel washing would be performed infrequently (up to four times each year) and the amount of additional water is not expected to impact vegetation.

The PV heat island effect, as described in Impact BIO-1, may impact vegetation and habitat by raising air and soil temperatures in the vicinity of the Project. However, Project design includes low impact site preparation to increase vegetation retention and restoration, maintaining trimmed vegetation under PV panels, and storing panels at max tilt overnight to release stored heat, which has been recommended in existing studies to mitigate the heat island effect.

Mitigation of Project Impacts on Private Land

Without mitigation, loss of native vegetation and habitat on the Project site would significantly affect threatened and endangered species. MMs BIO-1 through BIO-5, would minimize adverse impacts to native vegetation, as previously described in Impact BIO-1. As described in detail for Vegetation and Habitat in Impact BIO-1, MMs BIO-1 to MM BIO-5 require use of qualified biologists for surveying and monitoring (MM BIO-1 Biological Monitoring), training of construction personnel on identifying and avoiding sensitive

plant and wildlife resources (MM BIO-2 Worker Environmental Awareness Training), clear demarcation of vegetation for removal and low impact site preparation (MM BIO-3 Minimization of Vegetation and Habitat Impacts), managing non-natives in disturbance areas (MM BIO-4 Integrated Weed Management Plan), and revegetating with native habitat (MM BIO-5 Vegetation Resources Management Plan). These measures would minimize direct disturbance and removal of vegetation by keeping work activities within designated work areas. By implementing seeding and revegetation, soil decompaction, erosion control, and non-native control in disturbance areas, as directed in the IWMP and VRMP, soils would be stabilized, native vegetation would be re-established, and post-construction habitat values would be improved in the Project area.

7-9

Impacts to desert dry wash woodland would be avoided (except for minor incursions) on private lands and BLM lands as part of the Project design (Section 2.7.3), consistent with DRECP CMA LUPA-BIO-RIPWET-1 (see below and in Appendix CC). Compensatory mitigation for minor incursions into desert dry wash woodland shall be identified prior to disturbance of the features at a minimum 5:1 ratio, as required in MM BIO-14 and consistent with DRECP CMA LUPA-BIO-COMP-1. Compensatory mitigation for impacts to desert pavement shall be identified at a minimum ratio of 1:1, as required in MM BIO-3 and consistent with DRECP CMA LUPA-BIO-COMP-1. Compensatory mitigation for impacts to suitable desert tortoise habitat (creosote bush scrub) shall be identified prior to disturbance of features at a minimum 1:1 ratio and desert tortoise critical habitat at a 5:1 ratio, as required in MM BIO-7 and consistent with DRECP CMA LUPA-BIO-COMP-1. The Project has been designed to avoid desert dry wash woodland, which would preserve habitat values on the Project site and minimize impacts to vegetation. Compensation for impacts to vegetation would offset habitat loss.

Mitigation of Project Impacts on BLM Land

The Project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with the following CMAs, which would be required on BLM lands, would mitigate impacts to less than significant, as described.

- LUPA-BIO-1 (Biological Resources) requires assessments of habitat, identification of vegetation types, and protocol surveys for BLM Special Status Species where suitable habitat may be present in the Project area. Habitat assessments and protocol surveys would ensure that sensitive biological resources would be detected and identified for avoidance.
- LUPA-BIO-2 (Biological Resources) requires a designated biologist to conduct and oversee biological monitoring and reporting during pre-construction, construction, and decommissioning. Using a qualified biologist to oversee surveying, monitoring, and reporting will ensure that ground and vegetation disturbance would not be performed outside of approved work areas and that direct injury and mortality of wildlife species is avoided.
- LUPA-BIO-5 (Worker Education) requires that all activities implement a BLM-approved worker education program that describes biological resources and how to identify them, their legal protections, minimization and mitigation measures, and reporting requirements. Comprehensive training of on-site workers would ensure that they limit ground disturbance to work areas and that they avoid sensitive habitats and special-status species.
- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance) requires that temporary impact areas be restored using site-specific seed and soils, planting methods and timing, and success criteria, monitoring, and contingency measures, and that cactus be salvaged from the site and re-planted to the maximum extent practicable. Seeding, revegetation, soil decompaction, and erosion control would stabilize soils post-construction and promote

native habitat recovery, which would minimize long-term impacts to native habitats and soils in the Project area.

- LUPA-BIO-10 (Standard Practices for Weed Management) requires best management practices for weed management such as cleaning tires and equipment prior to entering the site, using certified weed free construction materials, re-vegetation of disturbed areas, and monitoring, identification, and eradication of weed infestations. Identification, suppression, and containment of non-native invasives and their sources would improve post-construction habitat values for threatened and endangered species in the Project area by preventing introduction and spread of weeds that outcompete native species and increase risk of wildfire.
- LUPA-BIO-11 (Nuisance Animals and Invasive Species) requires the management and proper use and disposal of herbicides and pesticides, and restriction of herbicide use near streams, washes, and surface and subsurface waters. Proper use of herbicides, in compliance with BLM guidelines, would minimize herbicide drift and spills to avoid contamination and degradation of non-target vegetation and waterways.
- LUPA-BIO-13 (General Siting and Design) requires siting and design to avoid impacts to unique plant assemblages. The CMA requires projects along the edges of the biological linkages to maximize the retention of microphyllous woodlands, in order to maintain the function of the connectivity area. The CMA requires that Project boundaries be demarcated and that Project activities, equipment, and vehicles be restricted to marked areas and existing roads and utility corridors. Lighting is required to be limited and directed away from habitat areas to minimize disturbance. Avoidance of desert dry wash woodland would prevent direct removal of functional corridor habitat. Flagging and staking work areas would avoid ground, soil, and vegetation disturbance outside of approved boundaries, minimizing impacts to habitat for threatened and endangered species in the vicinity.
- LUPA-BIO-SVF-1 (Special Vegetation Features) requires that a habitat assessment be performed for special vegetation features such as yucca, creosote rings, microphyll woodland, and Crucifixion thorn stands, which would ensure that these resources are identified and demarcated for avoidance or salvage.
- LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management) requires that management and salvage of cacti and BLM sensitive plants adhere to BLM-policies, downed wood be promoted for habitat values, and plant material be collected for re-vegetation. These measures would ensure that habitat values are improved in the Project area after construction.

The following CMAs describe protection for desert dry wash woodland. The Project design would avoid desert dry wash woodland with a 200-foot setback buffer, except for minor incursions, consistent with the CMAs (2.7.3).

- LUPA-BIO-3 (Resource Setback Standards) requires setbacks from specific biological habitats with allowable minor incursions as specified in applicable CMAs. Setback requirements are described in the species-specific CMA. The Project would avoid the desert dry wash woodland vegetation type with the required 200-foot buffer per LUPA-BIO-RIPWET-1 (See LUPA-BIO-RIPWET-1).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species) requires that certain vegetation types be avoided with a specified setback, except for allowable minor incursions. Sonoran-Coloradan Semi-Desert Wash Woodland (desert dry wash woodland, microphyll woodland) is required to be avoided with a 200-foot setback.
- LUPA-BIO-SVF-6 (Special Vegetation Features) requires that impacts to microphyll woodland be avoided except for minor incursions.

LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation) require compensation for loss of desert riparian woodland vegetation (5:1), through non-acquisition (i.e., restoration and enhancement), land acquisition (i.e., preserve), or a combination of these options. Compensation would offset habitat loss resulting from direct vegetation removal in work areas. Impacts to desert dry wash woodland would be avoided, except for minor incursions; compensation for minor incursions would be mitigated at a 5:1 ratio.

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Similar to the requirements of the MMs that would be implemented on private land within the Project site, CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would preserve sensitive habitat in the Project area for threatened and endangered species and prevent degradation from disturbance in adjacent areas.

Mitigation Conclusion

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site impacts to vegetation and habitat for threatened and endangered species would be less than significant. Impacts to native habitat would be mitigated in accordance with regulatory permits from the CDFW and RWQCB. Impacts to desert dry wash woodland would be avoided on private lands, as on BLM-administered lands in accordance with the DRECP CMAs. Mitigation for habitat impacts on BLM lands would be implemented in accordance with the DRECP and mitigation measures in the final NEPA document.

Threatened and Endangered Plants

No listed threatened or endangered plant species were observed or have the potential to occur on the Project site or in the vicinity. There would be no impacts to threatened and endangered plants and no mitigation is required.

Threatened and Endangered Wildlife

Impacts Discussion

Construction may result in direct impacts to special status<u>threatened and endangered</u> wildlife including injury or mortality. Construction activities would cause most mobile vertebrate wildlife to leave or attempt to leave the site. Wildlife dispersing from the site could be at increased risk of predation and possible vehicle collisions as they flush from cover during site clearing. After leaving their home territories, displaced wildlife may be unable to find suitable food or cover in new, unfamiliar areas.

Construction could cause mortality of desert tortoise which may be crushed by construction equipment or crushed in burrows. In most cases, adult birds would fly away from the disturbance, but bird nests (including eggs or nestlings, if present) would be lost. Land use conversion could exclude threatened and endangered wildlife from portions of their territories. Facilities could present hazards to wildlife. For example, vertical structures can be collision hazards for birds or bats in flight; trenches can be pitfall hazards for terrestrial wildlife; and construction materials such as open pipes or tubing can attract birds or terrestrial species, which can become trapped inside. <u>Open, uncovered water tanks may attract wildlife</u> that subsequently drown without a means of exit.

Introduction of new roads fragments and degrades habitats in the vicinity, interrupts surface hydrology, disrupts wildlife movement patterns and behaviors, divides wildlife populations, and may result in increased wildlife mortality from vehicle strikes. Increased roadkill becomes an attractant for opportunistic predators

that prey on special-status wildlife. Wildlife populations may decline with cumulative mortality and loss of larger reproductive animals (Nafus et al., 2013).

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Noise and lighting during construction could affect wildlife in adjacent habitats by disrupting foraging, breeding, sheltering, and other activities; or may cause wildlife to avoid otherwise suitable habitat surrounding the site. Lighting during construction may affect nocturnal wildlife species, by causing alterations to forage or movement behavior, possibly attracting some species to the site (e.g., bats may be attracted to insects at light sources) or dissuading other species from approaching the site. Various other human activities (e.g., vehicle traffic, accumulated waste, or nuisance water sources) can be injurious to wildlife, either as direct hazards (vehicle strikes) or as attractants such as food or water that may put wildlife in harm's way. F<u>encing, f</u>acilities, and equipment may become nest or perch sites for certain birds (common raven, loggerhead shrike) which may prey on threatened or endangered species (desert tortoise).

<u>Herbicides used to treat invasive weeds may also pose risks to threatened and endangered species.</u> <u>Herbicides that persist on site could injure wildlife that ingest target plants or come into contact with</u> <u>herbicides (e.g., by digging or rolling in treated soil).</u>

Mitigation of Project Impacts on Private Land

Without mitigation, the loss and modification of native habitat and direct disturbance, mortality, or injury of special-status wildlife as a result of project construction could significantly affect species on the project site or in the vicinity.

Impacts to threatened and endangered wildlife would be minimized and avoided with implementation of mitigation measures. MMs BIO-1 to MM BIO-5, as discussed in detail for Vegetation and Habitat in Impact BIO-1, require use of qualified biologists for surveying and monitoring (MM BIO-1 Biological Monitoring), training of construction personnel on identifying and avoiding sensitive plant and wildlife resources (MM BIO-2 Worker Environmental Awareness Training), clear demarcation of vegetation for removal and low impact site preparation (MM BIO-3 Minimization of Vegetation and Habitat Impacts), managing herbicide use and the introduction and spread of non-natives in disturbance areas (MM BIO-4 Integrated Weed Management Plan) (Appendix N), and revegetating with native habitat (MM BIO-5 Vegetation Resources Management Plan)(Appendix S).

These measures would minimize direct disturbance, loss, degradation, and contamination of nesting, sheltering, and foraging habitat for threatened and endangered wildlife by keeping work activities within designated work areas. By implementing seeding and revegetation, soil decompaction, erosion control, and non-native control in disturbance areas, as directed in the IWMP and VRMP, soils would be stabilized, native vegetation would be re-established, and post-construction habitat values would be improved in the Project area. Management of herbicides in accordance with established protocols will prevent wildlife encounters with treated vegetation.

The Project has been designed to avoid desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would preserve habitat values for threatened and endangered wildlife and offset habitat loss.

MM BIO-6 (Wildlife Protection) identifies numerous requirements to manage hazards to wildlife in work areas and report dead or injured wildlife. By performing site inspections; restricting vehicle speed limits; monitoring for wildlife entrapment and providing means of escape in trenches, holes, piping, or water tanks; managing food, trash, and water subsidies; and properly handling hazardous materials, predation, injury, and mortality of threatened and endangered wildlife would be reduced. These measures would increase detection of wildlife that require avoidance in Project areas and would prevent attraction to the

<u>Project site where there is increased likelihood of disturbance. Use of directed night lighting would</u> <u>minimize disturbance of wildlife in the Project vicinity and adjacent habitat.</u>

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Mitigation of Project Impacts on BLM Land

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with these CMAs, which would be required on BLM lands, would mitigate impacts to less than significant, as described.

The following CMAs, previously detailed for Vegetation and Habitat, would also reduce impacts to wildlife habitat used by threatened and endangered species for the same reasons as described above in the discussion of impacts to Vegetation and Habitat:

- <u>LUPA-BIO-1 (Biological Resources).</u>
- <u>LUPA-BIO-2 (Biological Resources).</u>
- LUPA-BIO-5 (Worker Education).
- <u>LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term</u> <u>Disturbance).</u>
- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

Similar to the requirements of the MMs that would be implemented on private land within the Project site, these CMAs reduce impacts to wildlife and habitat by requiring qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values for wildlife. Avoidance of desert dry wash woodland with a 200-foot setback buffer would prevent direct removal of sensitive habitat used by many wildlife species for foraging, shelter, breeding, and movement through the Project vicinity. A 200foot setback would reduce degradation from disturbance in adjacent areas.

In addition to CMAs that protect wildlife habitat, the following CMAs would be implemented to minimize impacts to threatened and endangered wildlife that may be present:

- LUPA-BIO-4 (Seasonal Restrictions) requires species-specific seasonal restrictions on Project activities as specified in the applicable CMAs. Seasonal restrictions and requirements are described in the species-specific CMA. Seasonal restrictions would ensure that construction activities do not disturb sensitive wildlife species during vulnerable periods in their life cycle.
- LUPA-BIO-6 (Subsidized Predators Standards) requires management of predator subsidies including food, water, trash, breeding and roosting sites for common raven. By reducing predator attractants and managing subsidies injury or mortality of special-status wildlife due to predation would be minimized.
- LUPA-BIO-12 (Noise) requires that noise from stationary sources that exceed background ambient levels and that may impact BLM Special Status Species be managed, and that equipment be fitted with mufflers to reduce noise. By reducing noise in the Project area, indirect disturbance to wildlife in adjacent habitats and foraging, breeding, and movement behaviors would be minimized.

LUPA-BIO-14 (Biology: General Standard Practices) requires that BMPs be implemented to protect BLM Special Status Wildlife Species, such as prohibiting harassment or feeding wildlife; prohibiting domestic pets on the Project site; inspection of construction materials that may provide shelter for wildlife; covering and inspection of trenches and excavations that may be an entrapment hazard to wildlife; providing a means of escape from excavations; and minimizing vegetation removal using crushing or mowing techniques. These measures would increase detection of wildlife that require avoidance in Project areas and would prevent attraction of predators and special-status species to the Project site, where there is increased likelihood of disturbance, mortality, and injury. Using crushing and mowing techniques would minimize impacts to vegetation and promote recovery of native wildlife habitat.

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- LUPA-BIO-15 (Biology: General Standard Practices) requires use of BLM-approved "state-of-the-art" construction techniques that minimize site disturbance, soil erosion and compaction, and removal of vegetation. Using current BLM-approved methods would minimize impacts to vegetation and promote recovery of native wildlife habitat.
- DFA-BIO-IFS-1 to -3 (Biological Resources) requires that species-specific protocol surveys be implemented in DFAs for desert tortoise, Bendire's thrasher, and burrowing owl and that species-specific setbacks be implemented in DFAs for Bendire's thrasher, burrowing owl, and Swainson's hawk. Surveys and setback buffers would ensure that target species are detected on the Project site and avoided at a distance that is sufficient to prevent disturbance of target species.

These DRECP CMAs reduce disturbance, injury, and mortality of wildlife species, by surveying and buffering for individuals, limiting work during species active seasons, and managing work site hazards and sources of disturbance.

Species-Specific Measures

The following paragraphs summarize species-specific impacts and mitigation measures in addition to the MMs and CMAs previously described, which provide improvement and avoidance of habitat and protection of wildlife from work site hazards for all threatened and endangered species on the Project site.

Species-specific mitigation measures, as discussed in detail below, ensure that work areas on private land in the Project site would be surveyed, and that threatened and endangered wildlife would be identified, monitored, buffered and avoided, or properly excluded or relocated. These measures are expected to reduce the need for handling, the likelihood and severity of injury, and the likelihood of mortality of special-status wildlife with potential to occur in the Project areas. CMAs described below would likewise minimize impacts on special status wildlife on BLM land within the Project site. Descriptions of impacts to specific threatened and endangered species that have potential to occur in the Project area are provided, as follows.

Insects

Crotch bumble bee (Bombus crotchii); SC. The Project site supports potentially suitable habitat for Crotch bumble bee; however, no bees have been observed and the Project site is located east of the current range. The easternmost portion of the gen-tie line on the Oberon Project site overlaps with the historic range. The nearest historic records to the Project site include near Corn Springs and Palm Springs (Ironwood, 2023a<u>4</u>). More recent records are documented on the western side of Riverside County, west of Palm Springs (Ironwood, 2023a<u>4</u>).

During construction and O&M, if present, Crotch bumble bee may be deterred from foraging on the Project site due to land use conversion and loss of forage plants. Burrows may be destroyed by ground disturbing activities. In most cases, insects would fly away from disturbance, but bees in nests would be at risk of mortality. Noise during construction could disrupt foraging activities or may cause the bee to avoid otherwise suitable habitat surrounding the site.

Significant impacts to vegetation used for foraging habitat would be avoided and minimized with implementation of MMs <u>BIO-1 to BIO-6</u>, as previously described,- which provide improvement and avoidance of habitat by using qualified staff, demarcating work areas, and performing re-vegetation and weed control, and would provide protection of wildlife using inspections and BMPs for work site hazards.

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Avoidance of desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would preserve habitat values for Crotch bumble bee and offset habitat loss.

MM BIO-6 (Wildlife Protection) includes specific measures to protect Crotch bumble bee including worker training on identifying individuals, and adaptive management in coordination with CDFW if individuals or nests are detected during pre-construction surveys. Any nests detected would be buffered by the Lead Biologist and avoided until coordination with CDFW is completed. These measures would identify potential instances of Crotch bumble bee in the Project area and protect individuals from disturbance. Implementation of MMs BIO-1 through BIO-5 would minimize adverse impacts to native vegetation, thereby minimizing impacts to Crotch bumble bee habitat. Additionally, MM BIO-6 (Wildlife Protection) identifies numerous requirements to minimize or avoid wildlife injury such as site inspections, prevention of attractants such as trash or water, hazardous material avoidance, and vehicle speed limits.

No additional species-specific CMAs are applicable to Crotch bumble bee beyond those previously described for all special-status wildlife species-.

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to Crotch bumble bee would be mitigated to less than significant.

Monarch butterfly. Monarchs may be present on the Project site. If present, host plants may be destroyed during site preparation, individuals may be displaced, and caterpillars or adults may be crushed. Use of herbicides and herbicide drift could contaminate and degrade non-target host plants and expose individuals to toxic chemicals, resulting in mortality. However, the site is not known to serve a significant role in breeding or migration for the species, and the surrounding Chuckwalla Valley provides vast stretches of desert land with similar or higher quality habitat the species may use. In western North America, nectar and milkweed resources are often associated with riparian corridors, and desert dry wash woodlands would be avoided as part of Project design.

As a result, impacts to the species are not expected to be significant.

These already less-than-significant impacts would be further reduced by implementation of MMs BIO-1 to BIO-5, as previously described, which require using qualified biological staff, training construction crews, demarcating work areas, and performing re-vegetation and weed control to improve post-construction values. MM BIO-5 requires salvage of seeds from the Project site and reseing of disturbed areas, which would facilitate re-establishment of milkweed plants. MM BIO-6 provides protection of wildlife using inspections and BMPs for work site hazards.

Avoidance of desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would preserve habitat values for monarch butterfly and offset habitat loss. <u>With implementation of the mitigation measures described above on private land within the Project</u> <u>site and implementation of the CMAs described above on BLM land within the Project site, already</u> <u>less-than-significant impacts to monarch butterfly would be further reduced.</u>

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Reptiles

Desert tortoise (*Gopherus agassizii***); SFE**, **FT**. No live desert tortoises or active sign were documented. Nine locations of tortoise carcasses were observed, most of which were characterized by shell bones falling apart and growth rings on scutes peeling (class 4) or disarticulated bones or scutes more than 4 years old (class 5). Desert tortoise sign observed during field surveys were consistent with the predicted occupancy model, with all the observed sign occurring in areas with occupancy values of 0.3 or higher. Most of the desert tortoise sign was concentrated within the southwest portion of the Project site.

During construction and O&M, if present, a desert tortoise would be vulnerable to impacts such as mortality or injury due to vehicle collision, crushing by site preparation equipment, or increased predation by opportunistic predators such as common ravens that may be attracted to food and water <u>subsidies at</u> the Project site. Desert tortoises, eggs, or burrows could be harmed during clearing or grading activities, or tortoises could become entrapped within open trenches and pipes. Construction or O&M activities could also result in direct mortality, injury, or harassment of tortoises or loss of eggs due to vehicle strikes. Other direct effects could include individual tortoises or eggs being crushed or entombed in their burrows, disruption of tortoise behavior during construction or operation of facilities, and disturbance by noise or vibrations from heavy equipment.

Desert tortoises may also be attracted to the construction area by shade beneath vehicles, equipment, or staged construction materials, or the application of water to control dust, placing them at higher risk of injury or mortality. Construction and operation could create "subsidies," such as food, water, or nest sites or perch sites, for common ravens or other opportunistic predators<u>-</u> in the form of water, food sources from trash, nesting materials from cleared brush and debris, and prey flushed from shelter. This could indirectly lead to an increase in predation on the desert tortoise and other <u>species</u>. New structures such as fencing, solar panels, and the gen-tie line could introduce nest or perch sites for opportunistic predators that could prey on desert tortoises. Ravens prey on juvenile desert tortoises, contributing to an overall decline in tortoise recruitment.

Construction will directly impact suitable habitat for desert tortoise by permanent removal of habitat and temporary loss or degradation of habitat. Construction activities could degrade desert tortoise habitat by compacting the soil, making it unsuitable for burrowing, and reducing the amount and guality of forage and cover vegetation. Construction could result in erosion of suitable soils and n3.5-70efracutrients, and reduced water absorption. Other effects could include the introduction and spread of invasive weeds that degrade habitat quality and increased human presence and disturbance. Relocation of tortoises from the Project site may result in competition for resources and mates in new habitat areas, which could result in mortality of the relocated individual or reductions in reproduction.

During O&M, desert tortoises would be more restricted from moving through the area, which could impact local populations and gene flow. However, as described below in Impact BIO-3, the proposed Project would avoid development on approximately 446530 acres of the Pinto Wash linkage within the Project area. The avoided portion of the linkage is primarily DDWW habitat adjacent to Big Wash, which would maintain east-west connectivity through the northern portion of the Project site that overlaps the linkage. The Easley Project site does not occur within high-quality habitat in the Pinto Wash linkage or within modelled linkage areas, and the best modelled habitat for connectivity in the Pinto Wash linkage is within the northern and western portions of the linkage where it does not overlap with the Easley Project site or the DFA (see Impact BIO-3). Additionally, desert tortoise

surveys did not result in observations of active desert tortoise sign or live individuals within the Project footprint. Implementation of the proposed Project will have minimal impact to the local desert tortoise population.

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As a state <u>listed endangered species</u> and <u>a</u> federally listed threatened species, take (such as injury or mortality, as well as handling of a desert tortoise) may only be authorized through consultation with the USFWS and CDFW. If the site is a part of a desert tortoise's home range, land use conversion could reduce local habitat availability, possibly reducing access to food, water, or other resources, and impact population density. Land use conversion also could affect habitat connectivity in the area, addressed below in Impact BIO-3 regarding wildlife movement.

Without implementation of MMs, the proposed Project could cause significant impacts including mortality or injury to desert tortoises if present in the Project area during construction, O&M, and decommissioning activities. Mitigation would prevent injury or mortality of desert tortoise, as described below. Impacts to desert tortoise habitat and movement may be further minimized with use of desert tortoise passage fencing as part of Project design during O&M (Section 2.7.4).

Implementation of several MMs would avoid, minimize, and mitigate impacts on desert tortoise on private land within the Project site. MMs BIO-1 through BIO-5, would minimize adverse impacts to native vegetation, as previously described in Impact BIO-1. These measures guide improvement and avoidance of habitat by using qualified staff, demarcating work areas, and performing re-vegetation and weed control, and would provide protection of wildlife using inspections and BMPs for work site hazards. Additionally, MMs BIO-6 (Wildlife Protection) and BIO-7 (Desert Tortoise Protection) would ensure no take of desert tortoise during Project construction or O&M. MM BIO-6, as previously detailed, identifies numerous requirements to minimize or avoid wildlife injury. By performing site inspections; restricting vehicle speed limits; monitoring for wildlife entrapment and providing means of escape in trenches, holes, piping, or water tanks; managing food, trash, and water subsidies; and properly handling hazardous materials, predation, injury, and mortality of special-status wildlife would be reduced. These measures would increase detection of wildlife in Project areas and would prevent attraction to the Project site where there is increased likelihood of disturbance. Use of directed night lighting would minimize disturbance of wildlife in the Project vicinity and adjacent habitat. such as site inspections, ramps to ensure escape from excavations, prevention of attractants such as trash or water, hazardous material avoidance, and vehicle speed limits.

MM BIO-7 (Desert Tortoise Protection) would require <u>vehicle inspections for tortoise and vehicle</u> speed limits, which would increase detection of desert tortoise that require avoidance to prevent injury or mortality. If a tortoise is observed within or near a work site, Project work activities will proceed only within a suitable buffer area after the tortoise has either moved away of its own accord, or if it has been translocated off the site under authorization by the USFWS and CDFW, which would avoid tortoise injury and mortality.

<u>Compensatory mitigation for desert tortoise shall include a minimum of 1:1 ratio for impacts to desert tortoise suitable habitat (creosote bush scrub) and a ratio of 5:1 for impacts to desert tortoise critical habitat, in coordination with USFWS, CDFW, and in compliance with any ITPs.</u>

The Desert Tortoise Protection and Relocation Plan (MM BIO-7) (Appendix P) would require the use of qualified and agency approved biological staff for surveying and monitoring; use of construction personnel that are trained to identify, report, and avoid desert tortoise; pre-construction clearance surveys, monitoring or exclusion of desert tortoises from active work areas to prevent injury; and agency protocols for passively excluding, handling, and relocating of desert tortoise found in work areas. The Plan requires that results of surveys and monitoring be regularly reported to resource agencies and that an adaptive management framework be developed to address Project related impacts. <u>The measure</u> <u>-and a Raven Management Plan to minimize opportunistic predation. It</u> requires a USFWS Authorized Biologist during construction to conduct or direct pre-construction clearance surveys for each work area and direct Biological Monitors to watch for tortoises wandering into the construction areas, check under vehicles, and examine excavations and other potential pitfalls for entrapped animals. The Authorized Biologist shall have the authority to halt all Project activities that are in violation of these measures or that may result in take of a desert tortoise.

7-9

<u>Desert t</u>-Fortoises would not be handled or moved without incidental take authorization from the USFWS and CDFW. Any desert tortoise handling or translocation would be performed according to the permits and the a-Desert Tortoise Relocation Plan-(IP Easley, 2023), pending approval by both agencies (MM BIO-7). The Applicant may seek this authorization or may opt to avoid any potential desert tortoise take as specified in MM BIO-6 (Wildlife Protection) and MM BIO-7 (Desert Tortoise Protection).

These measures would ensure that desert tortoise are identified and avoided in work areas prior to construction, and safely excluded from burrows and relocated out of harm's way. By following agency protocols for tortoise surveying, handling, and relocating, and by using qualified and permitted biological staff, individual desert tortoise would be detected for avoidance and monitoring, and mortality and injury during construction and relocation would be reduced.

MM BIO-7 further requires a Raven Management Plan (Appendix Q), which would be developed to minimize opportunistic predation related to Project subsidies. Implementation of the plan would manage work site subsidies such as trash, food, water, perches, and roadkill, which would reduce the attractants to the site and desert tortoise predation.

MM BIO-13 (Wildlife Protection Plan) (Appendix R), as previously described for burrowing owl, desert kit fox, and American badger, directs the development of a Wildlife Protection and Relocation Plan to identify and describe species-specific procedures for burrowing owl, desert tortoise, desert kit fox, and American badger. The Plan would require pre-construction wildlife clearance surveys; construction monitoring; and species-specific surveys; requirements for buffers, avoidance, and monitoring; exclusion and relocation methods; procedures for handling and transporting individuals; and adaptive management strategies to identify and remediate Project related impacts to special-status wildlife. The requirements of MM BIO-7 are incorporated in the Wildlife Protection Plan to describe the protocols and procedures related to desert tortoise translocation and relocation.

By performing protocol surveys, individuals and burrows would be buffered to avoid direct injury or mortality. Passive exclusion of individuals would prevent entrapment during construction, avoid the need for handling, and avoid direct injury and mortality. Collapsing inactive burrows prevents further use to avoid future risk to the species from construction in the Project area.

<u>DRECP</u> CMAs. In addition to CMAs previously detailed for all special-status wildlife species, the following CMAs would be implemented on BLM lands within the Project site to minimize impacts to desert tortoise:

 LUPA-BIO-IFS-1 to -9 (Individual Focus Species (IFS): Desert Tortoise) require specific measures to protect desert tortoise. Activities within desert tortoise linkages must be evaluated to determine the effect of the Project on the maintenance of long-term viable desert tortoise populations within the linkage (LUPA-BIO-IFS-1). Construction of new roads must be avoided to the maximum extent practicable within desert tortoise habitat in tortoise conservation areas (LUPA-BIO-IFS-2) and culverts for roads must allow unrestricted access by desert tortoise (LUPA-BIO-IFS-3). Exclusion fencing must be installed around the perimeter of long-term activities in accordance with the Desert Tortoise Field Manual (USFWS, 2009) and clearance surveys, fence monitoring, and construction monitoring must be performed by a designated biologist (LUPA-BIO-IFS-4, -5). Any geotechnical borings would be monitored for desert tortoise (LUPA-BIO-IFS-6, -7). Construction materials must be inspected and capped to prevent entrapment and under vehicles would be inspected to prevent crushing (LUPA-BIO-IFS-8). Vehicle speed limits must be maintained to detect and avoid desert tortoise (LUPA-BIO-IFS-9). These measures would ensure that desert tortoise are identified, avoided, and protected in work areas, safely excluded from work areas and burrows, and safely relocated out of harm's way. By following agency protocols for tortoise surveying, handling, and relocating, and by using qualified and permitted biological staff, individual desert tortoise would be detected for avoidance and monitoring, and mortality and injury during construction and relocation would be reduced. Inspections of work sites and vehicles and speed limit requirements would ensure detection and avoidance of individuals.

7-9

- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation) require compensation for loss of suitable desert tortoise habitat (1:1) (same recovery unit), desert tortoise critical habitat (5:1) (same critical habitat unit), wetlands (2:1), and desert riparian woodland vegetation (5:1), through non-acquisition (i.e., restoration and enhancement), land acquisition (i.e., preserve), or a combination of these options. Compensation would offset desert tortoise habitat loss resulting from direct vegetation removal in work areas.
- DFA-VPL-BIO-IFS-1 (Individual Focus Species (IFS): Desert Tortoise) requires that activities be sited in previously disturbed areas, areas of low-quality habitat, and areas with low habitat intactness within desert tortoise linkages, which would reduce disturbance and degradation of desert tortoise habitat.

Measures are expected to effectively avoid lethal take of desert tortoise by avoiding disturbance of individuals, protecting them from work site hazards, identifying and collapsing empty burrows, and passively excluding them from the Project area.

On BLM-administered lands, USFWS acknowledged that approximately 11,290 acres of modeled desert tortoise habitat within the DRECP DFAs would eventually be developed for renewable energy (USFWS, 2016; 2017). USFWS concluded that the DRECP LUPA was not likely to jeopardize the continued existence of the desert tortoise and would benefit its recovery. The proposed solar plants were primarily located outside of critical habitat and areas of critical environmental concern, which contain most of the land base required for recovery of the species, and the projects included numerous measures intended to protect desert tortoise, consistent with the recommendations in the USFWS desert tortoise recovery plan (USFWS, 2016; 2017).

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to desert tortoise would be mitigated to less than significant With implementation of mitigation, impacts to desert tortoise would be less than significant.

On BLM-administered lands, USFWS acknowledged that approximately 11,290 acres of modeled desert tortoise habitat within the DRECP DFAs would eventually be developed for renewable energy (USFWS, 2016; 2017). USFWS concluded that the DRECP LUPA was not likely to jeopardize the continued existence of the desert tortoise and would benefit its recovery. The proposed solar plants were primarily located outside of critical habitat and areas of critical environmental concern, which contain most of the land base required for recovery of the species, and the projects included numerous measures intended to protect desert tortoise, consistent with the recommendations in the USFWS desert tortoise recovery plan (USFWS, 2016; 2017).

Birds

Threatened and endangered birds with potential to occur on the Project site are discussed in the species-specific paragraphs below. The Project site and surrounding area provides suitable foraging,

cover, and nesting habitat for numerous resident and migratory bird species. Direct removal of vegetation and habitat on the Project site would reduce availability of foraging, cover, and nesting habitat for threatened and endangered birds and their prey.

During construction, if present, threatened and endangered birds may be deterred from occupying the Project site due to vegetation disturbance; loss of foraging, cover, and nesting habitat; and increased human presence, noise, vibrations, and lighting. In most cases, adult birds would fly away from the disturbance, but bird nests (including eggs or nestlings, if present) could be destroyed, resulting in injury or mortality of individuals. Land use conversion could exclude threatened and endangered birds from portions of their territories, and establishing new territories in other areas may result in increased competition for resources and mates, resulting in mortality or reduced reproduction. Noise, vibrations, and lighting during construction could disrupt foraging, breeding, and sheltering activities or may cause birds to avoid otherwise suitable habitat surrounding the site. Increased human presence and activity could increase incidents of vehicle strikes and entrapment, or endanger individuals by attracting them and predators to work sites with trash, food, and water.

After completion of construction and throughout the life of the Project, the solar facilities and other Project components may present a collision and electrocution risk to birds. Collisions typically occur when the structures are not visible (e.g., power lines or guy wires at night), or are deceptive (e.g., glazing and reflective glare) or confusing (e.g., light refraction or reflection from mist). In the case of solar panels, birds may collide with the panels that reflect the sky and clouds and are misconstrued as safe passage (USGS, 2016), and some have hypothesized that the collision risk may be linked to a "false-lake effect," where birds are attracted to PV panels as water bodies, resulting in collision or stranding. This effect may be the cause of water-associated and water-obligate species mortalities at desert solar sites, including federally listed Yuma Ridgway's rail, which has been found at another solar facility in the area. Lake effect is discussed in more detail above. Impacts due to electrocution are detailed under 500 kV Gen-Tie, Collector, and Distribution Lines.

Without mitigation, impacts to threatened and endangered birds would be significant.

Implementation of several mitigation measures would avoid, minimize, and mitigate impacts to threatened and endangered bird species on private land within the Project site. Impacts to habitat for threatened and endangered birds would be avoided and minimized by implementing MMs BIO-1 through BIO-5. As described in detail for Vegetation and Habitat in Impact BIO-1, these require use of qualified biologists for surveying and monitoring (MM BIO-1 Biological Monitoring), training of construction personnel on identifying and avoiding sensitive wildlife resources (MM BIO-2 Worker Environmental Awareness Training), clear demarcation of vegetation for removal and low impact site preparation (MM BIO-3 Minimization of Vegetation and Habitat Impacts), managing herbicide use and the introduction and spread of non-natives in disturbance areas (MM BIO-4 Integrated Weed Management Plan) (Appendix N), and revegetating with native habitat (MM BIO-5 Vegetation Resources Management Plan) (Appendix S). By keeping work activities within designated work areas, direct disturbance of birds and their nesting, sheltering, and foraging habitat would be minimized. By implementing seeding and revegetation, soil decompaction, erosion control, and non-native control in disturbance areas, as directed in the IWMP and VRMP, soils would be stabilized, native vegetation would be re-established, and post-construction habitat values for birds and other wildlife would be improved in the Project area. Management of herbicides in accordance with established protocols will prevent wildlife encounters with treated vegetation.

As described for all threatened and endangered wildlife, avoidance of desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise

critical habitat at a ratio of 5:1 (MM BIO-7) would preserve habitat values for threatened and endangered birds on the Project site and offset habitat loss.

7-9

Per MM BIO-6 (Wildlife Protection), performing site inspections; restricting vehicle speed limits; monitoring for wildlife entrapment and providing means of escape in trenches, holes, piping, or water tanks; managing food, trash, and water subsidies; and properly handling hazardous materials would increase detection and avoidance of threatened and endangered birds on the Project site and prevent attraction to the site where there is increased likelihood of disturbance, predation, injury, and mortality.

MM BIO-8 (Bird and Bat Conservation Strategy) would direct the development of a BBCS Plan (Appendix M), which would identify Project related risks to birds and bats and adaptively manage for Project related mortality detected on the Project site. By implementing adaptive management, instances of bird collisions, stranding, and mortality associated with solar facilities would be identified and managed to reduce impacts from Project related risks. MM BIO-9 (Nesting Bird Management Plan) (Appendix O), as previously described, requires performing pre-construction nest surveys and implementing buffers and monitoring around active nests, which would protect nesting threatened and endangered birds from disturbance due to increased noise, dust, vibration, and human presence and from direct destruction of nests, eggs, and young.

MMs BIO-1 to -6 and MM BIO-8 and -9 apply to all threatened and endangered bird species on the Project site. They outline requirements for improvement and avoidance of habitat, protection from work site hazards, adaptive management based on known risks to birds and bird mortality from Project features, and identification and avoidance of nesting birds.

<u>DRECP CMAs:</u> In addition to CMAs previously detailed for all threatened and endangered wildlife species, the following CMAs would be implemented on BLM land within the Project site to minimize impacts to threatened and endangered birds:

- LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs) requires measures to avoid and minimize impacts to birds and bats, such as managing lighting that will not attract birds and bats and monitoring for birds and bat mortality on the Project site. The CMA requires that a Bird and Bat Conservation Strategy (BBCS) be developed to assess operational impacts to birds and bats, incorporating a bird and bat use and mortality monitoring program during operations, using current protocols and best procedures available at time of monitoring. By implementing the requirements of the BBCS, bird injury and mortality from work site hazards and Project related risks during operation of the solar facilities (collision, electrocution) would be adaptively managed and reduced.
- LUPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species) requires that activities within 0.25 mile of a riparian or wetland vegetation type that may impact riparian and wetland birds would be surveyed with pre-construction/activity nesting bird surveys. Surveys and monitoring would identify nesting birds, nests, eggs, and young that require protection from direct mortality, injury, and destruction and would minimize disturbance from construction noise, vibrations, dust, lighting, and increased human presence, which could otherwise result in nest abandonment.
- LUPA-BIO-COMP-2 (Compensation (Birds and Bats)) requires that compensation for the mortality impacts to birds and bats from the Project be determined based on monitoring of bird and bat mortality and a fee reassessed every 5 years to fund compensatory mitigation. Monitoring must inform the amount and type of compensation required to offset the effects. Compensation will be satisfied by restoring, protecting, or otherwise improving habitat or non-restoration actions that reduce mortality risks, such as increased predator control and protection of roosting sites from human disturbance. By monitoring bird and bat mortality, the level of impact and associated compensation will be adequately identified.

By identifying potential hazards to birds and bats during construction and O&M, and monitoring for injury and mortality from work site and Project related hazards, impacts would be adaptively managed and reduced. Protecting nesting birds would avoid direct mortality or injury, destruction of nests, eggs, and young, and disturbance of nesting behaviors from construction.

7-9

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to threatened and endangered birds would be mitigated to less than significant.

The following paragraphs further summarize impacts for specific threatened and endangered birds, and briefly describe the mitigation measures and CMAs needed to reduce significant impacts. These measures are expected to reduce the loss of habitat, the likelihood and severity of injury, and the likelihood of mortality of threatened and endangered birds with potential to occur in the Project areas.

Swainson's hawk (*Buteo swainsoni*); ST, BBC. The Project site provides potential migration season foraging habitat for Swainson's hawk but is well outside the nesting range. No Swainson's hawks were observed during surveys.

During construction and O&M, if present, Swainson's hawk may be deterred from foraging on the Project site due to land use conversion. In most cases, adult birds would fly away from the disturbance. Facilities including vertical structures could present a collision hazard. Noise and lighting during construction could disrupt foraging activities or may cause wildlife to avoid otherwise suitable habitat surrounding the site. Increased human presence and activity could increase incidents of vehicle strikes or endanger individuals by attracting them to work sites with trash, food, and water.

Significant impacts to vegetation used for cover and foraging habitat would be avoided and minimized with implementation of MMs, as previously described. Loss of foraging and cover habitat may affect Swainson's hawk during migratory seasons, which would be minimized by implementing BIO-1 through BIO-5. These measures ensure improvement and avoidance of habitat by using qualified staff, demarcating work areas, and performing re-vegetation and weed control. Protective measures for wildlife in MM BIO-6 and the requirements of protective plans for birds in MM BIO-8, -9, and -10 would ensure that injury and mortality of birds associated with operational hazards and risks would be managed and avoided and that bird nests are protected from destruction.

In addition to the CMAs previously described for all threatened and endangered wildlife species, the following CMA would be implemented on BLM land within the Project site to minimize impacts to Swainson's hawk:

 DFA-BIO-IFS-2 (Biological Resources) requires that species-specific setbacks be implemented in DFAs for Bendire's thrasher, burrowing owl, and Swainson's hawk. A setback buffer of 0.5 mile is required from active nests. Suitable nesting habitat is not present near the Project area. Setback buffers would ensure that species are detected on the Project site and avoided at a distance that is sufficient to prevent disturbance of target species.

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to this species would be mitigated to less than significant.

Implementation of MMs BIO-1 through BIO-5 would minimize adverse impacts to native vegetation, thereby minimizing impacts to threatened and endangered bird habitat.

MM BIO-6 (Wildlife Protection) would minimize impacts to birds through site inspections, prevention of attractants such as trash or water, hazardous material avoidance, and vehicle speed limits. MM BIO-8 (Bird and Bat Conservation Strategy) requires a BBCS that will identify potential hazards to

birds, implement a Nesting Bird Management Plan (NBMP), include monitoring and avoidance of nesting seasons, and develop adaptive management for bird and bat mortality during O&M. Impacts due to potential collision and electrocution and associated mitigation measures are discussed below for Gen-Tie Lines and would be minimized with implementation of MM BIO-8 (BBCS) and MM BIO-9 (Gen-tie Lines).

7-9

Gila Woodpecker *(Melanerpes uropygialis)*; **CE**, **BLMS**, **BCC**. Potentially suitable habitat within the Project site is found in desert washes in palo verde or ironwood trees large enough for cavity nests. Potential for nesting is low as only a few palo verde trees on the site are large enough for tree cavities, and the site is near the western margin of the Gila woodpecker's range. Two suitable tree cavities were observed in surveys, but no Gila woodpeckers were observed (Figure 3.5-6).

During construction and O&M, if present, Gila woodpecker may be deterred from occupying the Project site due to vegetation disturbance, and increased human presence, noise, and lighting. In most cases, adult birds would fly away from the disturbance, but bird nests (including eggs or nestlings, if present) could be lost. Land use conversion could exclude Gila woodpecker from portions of their territories. Noise and lighting during construction could disrupt foraging, breeding, and sheltering activities or may cause wildlife to avoid otherwise suitable habitat surrounding the site. Increased human presence and activity could increase incidents of vehicle strikes or endanger individuals by attracting them to work sites with trash, food, and water.

Loss of ironwood trees suitable for cavity nests and vegetation suitable for cover and forage habitat would impact Gila woodpecker.

Impacts to bird habitat would be minimized by implementing BIO-1 through BIO-5, as previously described, which ensure improvement and avoidance of habitat by using qualified staff, demarcating work areas, and performing re-vegetation and weed control for post-construction vegetation recovery. As described for all threatened and endangered wildlife, the Project has been designed to avoid desert dry wash woodland (except for minor incursions), per the Project Description (see EIR Chapter 2), which would avoid and minimize loss of ironwood trees used for nesting and preserve habitat values. Compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14) would offset habitat loss.

Protective measures for wildlife in MM BIO-6 and the requirements of protective plans for birds in MM BIO-8 and -9 would ensure that bird injury and mortality associated with work site hazards and risks would be managed and avoided and that bird nests are protected from destruction. Mitigation measures would be implemented, as previously described for Swainson's hawk, to minimize impacts to threatened and endangered birds and their habitat. Implementation of MMs BIO-1 through BIO-5 would minimize significant impacts to native vegetation, thereby minimizing impacts to foraging and nesting habitat. MM BIO-6 (Wildlife Protection) and MM BIO-8 (BBCS) would minimize direct impacts to birds with site inspections, monitoring and avoidance of nesting seasons, and adaptive management for bird mortality during O&M.

No additional species-specific CMAs are applicable to Gila woodpecker beyond those previously described for all threatened and endangered wildlife species.

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to this species would be mitigated to less than significant.

Elf owl (*Micrathene whitneyi***); CE, BLMS, BCC.** Trees within the desert dry wash woodland habitat could provide suitable marginal habitat for elf owl nesting. Its nesting habitat is closely correlated with nesting habitat of woodpeckers, including Gila woodpecker. Two tree cavities were observed during surveys and could be potential nesting cavities. No elf owls were observed during the survey.

The Project's potential impacts to elf owl nesting and foraging habitat would be similar to those described for Gila woodpecker and other <u>native birds and</u> threatened and endangered birds. <u>Loss of</u> <u>ironwood trees suitable for cavity nests and vegetation suitable for cover and forage habitat would</u> <u>impact elf owl.</u>

7-9

Impacts to bird habitat would be minimized by implementing BIO-1 through BIO-5, as previously described, which ensure improvement and avoidance of habitat by using qualified staff, demarcating work areas, and performing re-vegetation and weed control for post-construction vegetation recovery. As described for all threatened and endangered wildlife, the Project has been designed to avoid desert dry wash woodland (except for minor incursions), per the Project Description, would avoid and minimize loss of ironwood trees used for nesting and preserve habitat values. Compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14) would offset habitat loss.

Protective measures for wildlife in MM BIO-6 and the requirements of protective plans for birds in MM BIO-8 and -9 would ensure that bird injury and mortality associated with work site hazards and risks would be managed and avoided and that bird nests are protected from destruction. Impacts would be avoided and minimized with implementation of MMs, as previously described. Implementation of MMs BIO-1 through BIO-5 would minimize significant impacts to native vegetation, thereby minimizing impacts to foraging and nesting habitat. MM BIO-6 (Wildlife Protection) and MM BIO-8 (BBCS) would minimize direct impacts to birds with site inspections, monitoring and avoidance of nesting seasons, and adaptive management for bird mortality during O&M.

No additional species-specific CMAs are applicable to elf owl beyond those previously described for all threatened and endangered wildlife species.

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to this species would be mitigated to less than significant.

Riparian Birds. Four federally listed riparian bird species known from the vicinity (western yellowbilled cuckoo, southwestern willow flycatcher, least Bell's vireo, and Yuma Ridgway's rail) have a moderate potential to occur in the Project area during migration periods, but there is no suitable nesting or foraging habitat on the site for these species. None were observed during field surveys. There would be no direct or indirect effects to nests, nest success, or nesting habitat.

The Project's impacts to nesting and foraging <u>and stopover</u> habitat and <u>direct impacts to</u> individuals would be similar to those described <u>in Impact BIO-1 for native birds and</u> for other threatened and endangered birds.

If birds use the Project site, they may be subject to direct mortality or injury from vegetation removal and work site hazards, such as equipment, vehicles, hazardous fuels and herbicides, entrapment in project materials, and attractants for opportunistic predators. Indirect impacts, such as increased noise, dust, light, and activity, may affect migratory behavior.

While these birds would not forage or nest on the site, they may encounter the site during migratory flight, where the solar facilities and other Project components may present a collision risk to birds, as previously described. Collisions may occur when the structures are not visible (e.g., power lines or guy wires at night), or are deceptive (e.g., glazing and reflective glare) or confusing (e.g., light refraction or reflection from mist). In the case of solar panels, birds may collide with the panels that are misconstrued as the sky or as a "false-lake", resulting in collision or stranding. This effect may be the cause of water-associated and water-obligate species mortalities at desert solar sites, including federally listed Yuma Ridgway's rail, one individual of was found at the Desert Sunlight solar facility in the area in 2013 (Kosciuch et. Al., 2021; Kagan, 2014).

Impacts to habitat that may be used by threatened and endangered migratory birds would be minimized by implementing BIO-1 through BIO-5, as previously described, which ensure improvement and avoidance of habitat by using qualified staff, demarcating work areas, and performing re-vegetation and weed control for post-construction vegetation recovery. As described for all threatened and endangered wildlife, the Project has been designed to avoid desert dry wash woodland (except for minor incursions), per the Project Description, would avoid and minimize loss of migratory stopover habitat and preserve habitat values. Compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14) would offset habitat loss.

7-9

<u>Protective measures for wildlife in MM BIO-6 manage work site hazards, which would increase detec-</u> <u>tion and avoidance of threatened and endangered birds on the Project site and prevent attraction to</u> <u>the site where there is increased likelihood of disturbance, predation, injury, and mortality.</u>

MM BIO-8 (Bird and Bat Conservation Strategy) (Appendix M) identify Project related risks to birds and bats and adaptively manage for Project related mortality detected on the Project site. By implementing adaptive management, instances of bird collisions, stranding, and mortality associated with solar facilities would be identified and managed to reduce impacts from Project related risks.

Significant impacts to riparian birds would be avoided and minimized with implementation of MMs, as previously described for Swainson's hawk. Implementation of MMs BIO-1 through BIO-5 would minimize significant impacts to native vegetation, thereby minimizing impacts to foraging and nesting habitat. MM BIO-6 (Wildlife Protection) and MM BIO-8 (Bird and Bat Conservation Strategy) would minimize direct impacts to birds with site inspections, monitoring and avoidance of nesting seasons, and adaptive management for bird mortality during O&M.In addition to CMAs previously detailed for all threatened and endangered wildlife species, the following CMAs would be implemented on BLM land within the Project site to minimize impacts to threatened and endangered riparian birds:

 LUPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species) requires that activities within 0.25 mile of a riparian or wetland vegetation type that may impact riparian and wetland birds would be surveyed with pre-construction/activity nesting bird surveys. Surveys and monitoring would identify nesting birds, nests, eggs, and young that require protection from direct mortality, injury, and destruction and would minimize disturbance from construction noise, vibrations, dust, lighting, and increased human presence, which could otherwise result in nest abandonment.

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to these species would be mitigated to less than significant. With implementation of mitigation, impacts to threatened and endangered riparian birds would be less than significant.

500 kV Gen-Tie, Collector, and Distribution Lines

Construction of the gen-tie line would primarily occur through the adjacent Oberon <u>Renewable Energy</u> Project site <u>(RWQCB, 2021; BLM, 2022)</u>, on BLM-administered lands, which was previously analyzed in the Final EIR and Final EA for the Oberon Renewable Energy Project (RWQCB, 2021; BLM, 2022). Impacts due to construction of the Easley gen-tie line are described below.

Vegetation & Habitat

Impacts Discussion

Gen-tie line construction through the Oberon Project site would affect vegetation and habitat at discrete disturbance sites where towers or other work activities would be located. If the 34.5 kV or 12 kV lines are installed overhead, similar types of impacts would occur at the pole sites located outside of the solar facility fence line. For portions of the collector lines that are buried underground, trenches would be dug

through vegetated areas or desert pavement. Trenches would be backfilled with native soils and disturbance areas would be reseeded. Impacts to vegetation and habitat at the sites would be similar to those described in Impact BIO-1. Vegetation would be cleared or trimmed and soils would be disturbed. Spread of invasive weeds may degrade habitat. Construction would not affect most of the vegetation and habitat within the gen-tie routes.

7-9

Mitigation of Project Impacts on Private Land

Impacts to natural habitat would be avoided or minimized by implementing MMs BIO-1 through BIO-5, previously described for the Solar and BESS Facility and detailed in Impact BIO-1.

MMs BIO-1 to MM BIO-5 require use of qualified biologists for surveying and monitoring (MM BIO-1 Biological Monitoring), training of construction personnel on identifying and avoiding sensitive plant and wildlife resources (MM BIO-2 Worker Environmental Awareness Training), clear demarcation of vegetation for removal and low impact site preparation (MM BIO-3 Minimization of Vegetation and Habitat Impacts), managing non-natives in disturbance areas (MM BIO-4 Integrated Weed Management Plan), and revegetating with native habitat (MM BIO-5 Vegetation Resources Management Plan). These measures would avoid direct disturbance and removal of vegetation and soils outside of designated work areas. The IWMP (Appendix N) would improve habitat values by preventing and controlling spread of weeds in disturbed areas. The VRMP (Appendix S) directs methods for erosion control, re-vegetating temporary disturbance areas, and salvaging seed and cacti in the Project site. By implementing seeding and revegetation, soil decompaction, erosion control, and non-native control in disturbance areas, soils would be stabilized, native vegetation would be re-established, and post-construction habitat values would be improved in the Project area.

Impacts to desert dry wash woodland have been avoided (except for minor incursions) on private lands and BLM-administered land as part of the Project design (Section 2.7.3), consistent with DRECP CMA LUPA-BIO-RIPWET-1 (see below and in Appendix CC). Consistent with DRECP CMA LUPA-BIO-COMP-1, compensatory mitigation for minor incursions into desert dry wash woodland shall be identified prior to disturbance of the features at a minimum 5:1 ratio, as required in MM BIO-14. Compensatory mitigation for impacts to desert pavement shall be identified at a minimum ratio of 1:1, as required in MM BIO-3. Compensatory mitigation for impacts to suitable desert tortoise habitat shall be identified prior to disturbance of features at a minimum 1:1 ratio and desert tortoise critical habitat at a 5:1 ratio, as required in MM BIO-7.

Mitigation of Project Impacts on BLM Land

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with the following CMAs, which would be required on BLM lands, would mitigate impacts to less than significant, as described. These CMAs are described in detail for the *Solar and BESS Facility, Vegetation and Habitat* in Impact BIO-1.

- LUPA-BIO-1 (Biological Resources) requires assessments of habitat, identification of vegetation types, and protocol surveys for BLM Special Status Species where suitable habitat may be present in the Project area. Habitat assessments and protocol surveys would ensure that sensitive biological resources would be detected and identified for avoidance.
- LUPA-BIO-2 (Biological Resources) requires a designated biologist to conduct and oversee biological monitoring and reporting during pre-construction, construction, and decommissioning. Using a qualified biologist to oversee surveying, monitoring, and reporting will ensure that ground and vegetation disturbance would not be performed outside of approved work areas and that direct injury and mortality of wildlife species is avoided.

LUPA-BIO-5 (Worker Education) requires that all activities implement a BLM-approved worker education program that describes biological resources and how to identify them, their legal protections, minimization and mitigation measures, and reporting requirements. Comprehensive training of on-site workers would ensure that they limit ground disturbance to work areas and that they avoid sensitive habitats and threatened and endangered species.

7-9

- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance) requires that temporary impact areas be restored using site-specific seed and soils, planting methods and timing, and success criteria, monitoring, and contingency measures, and that cactus be salvaged from the site and re-planted to the maximum extent practicable. Seeding, revegetation, soil decompaction, and erosion control would stabilize soils post-construction and promote native habitat recovery, which would minimize long-term impacts to native habitats and soils in the Project area.
- LUPA-BIO-10 (Standard Practices for Weed Management) requires best management practices for weed management such as cleaning tires and equipment prior to entering the site, using certified weed free construction materials, re-vegetation of disturbed areas, and monitoring, identification, and eradication of weed infestations. Identification, suppression, and containment of non-native invasives and their sources would improve post-construction habitat values in the Project area by preventing introduction and spread of weeds that outcompete native species and increase risk of wildfire.
- LUPA-BIO-11 (Nuisance Animals and Invasive Species) requires the management and proper use and disposal of herbicides and pesticides, and restriction of herbicide use near streams, washes, and surface and subsurface waters. Proper use of herbicides, in compliance with BLM guidelines, would minimize herbicide drift and spills to avoid contamination and degradation of non-target vegetation and waterways.
- LUPA-BIO-13 (General Siting and Design) requires siting and design to avoid impacts to unique plant assemblages. The CMA requires projects along the edges of the biological linkages to maximize the retention of microphyllous woodlands, in order to maintain the function of the connectivity area. The CMA requires that Project boundaries be demarcated and that Project activities, equipment, and vehicles be restricted to marked areas and existing roads and utility corridors. Lighting is required to be limited and directed away from habitat areas to minimize disturbance. Avoidance of desert dry wash woodland would prevent direct removal of functional corridor habitat. Flagging and staking work areas would avoid ground, soil, and vegetation disturbance outside of approved boundaries, minimizing impacts to habitat in the vicinity.
- LUPA-BIO-SVF-1 (Special Vegetation Features) requires that a habitat assessment be performed for special vegetation features such as yucca, creosote rings, microphyll woodland, and Crucifixion thorn stands, which would ensure that these resources are identified and demarcated for avoidance or salvage.
- LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management) requires that management and salvage of cacti and BLM sensitive plants adhere to BLM-policies, downed wood be promoted for habitat values, and plant material be collected for re-vegetation. These measures would ensure that habitat values are improved in the Project area after construction.
- CMAs for the protection of desert dry wash woodland include LUPA-BIO-3 (Resource Setback Standards), LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species), LUPA-BIO-SVF-6 (Special Vegetation Features), LUPA-BIO-COMP-1 (Compensation), and DFA-VPL-BIO-COMP-1 (Biological Compensation). These require avoidance of desert dry wash woodland (also described as Sonoran-Coloradan Semi-Desert Wash Woodland or microphyll woodland) with a 200-foot setback buffer, except for minor allowable incursions, and compensation for impacts to desert dry wash woodland at

<u>a 5:1 ratio. Avoidance of desert dry wash woodland with a setback buffer would prevent direct removal</u> of wildlife habitat. A 200-foot setback would reduce degradation from disturbance in adjacent areas.

7-9

Similar to the requirements of the MMs that would be implemented on private land within the Project site, CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would preserve habitat in the Project area for threatened and endangered species and minimize impacts to vegetation.

Mitigation Conclusion

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to vegetation and habitat for threatened and endangered species would be less than significant.which require revegetation of short-term impact areas, pre-construction surveys and marking of sensitive resources, management plans, and construction crew training, would minimize and offset adverse impacts to native vegetation, thereby minimizing impacts to vegetation and habitat. Additionally, similar mitigation measures required to be implemented for the Oberon Project are included in its Final EIR (RWQCB, 2021) and Final EA (BLM, 2022). Conservation Management Actions (CMAs) would also be implemented on BLM lands per the DRECP, as described in the Final EA for the Oberon Project.

Threatened and Endangered Plants

No listed threatened or endangered plant species were observed or have the potential to occur along the gen-tie route through the Oberon Project site. There would be no impacts to threatened and endangered plants and no mitigation is required.

Threatened and Endangered Wildlife

Impacts Discussion

Species affected along the gen-tie line would be the same as those described for the solar facility. Desert tortoise sign was observed along the eastern portion of the gen-tie route through the Oberon Project site in desert dry wash woodland. The gen-tie route <u>175-foot</u> ROW overlaps with approximately 28.2 acres of critical habitat for desert tortoise in the southern portion of the Oberon Project site. <u>Up to 7 gen-tie structures (approximately 15 acres) would be installed within critical habitat for the desert tortoise.</u>

As described for Impact BIO-1, gen-tie construction activities could dissuade threatened and endangered wildlife from approaching construction areas due to disturbance, vegetation removal, increased human presence, noise, and lighting. Construction could result in direct mortality or injury. In most cases, adult birds would fly away from the disturbance, but bird nests (including eggs or nestlings, if present) would be lost. Displaced wildlife may be unable to find suitable food or cover in new, unfamiliar areas. Construction of transmission facilities could present pitfall hazards. Increased human presence, noise, and lighting during construction could affect wildlife in adjacent habitats. These effects would be temporary (limited to construction phase) and would occur in discrete work areas.

Once completed, the gen-tie lines would have minimal effects on terrestrial wildlife movement because no new barrier to movement would be constructed beneath the line. However, the gen-tie towers and conductors would present a collision and electrocution hazard, as described in detail in Impact BIO-1.

Birds and bats may collide with the overhead lines, including the gen-tie transmission line. While few nocturnal migrant passerines have been found in the solar arrays, more have been found underneath the

gen-tie lines at the solar projects. Large birds can be electrocuted by transmission lines if the bird's wings simultaneously contact conductors, or a conductor and a ground. This happens most frequently when a bird attempts to perch or take off from a structure with insufficient clearance between these elements. Configurations less than 1 kV or greater than 69 kV, like the proposed 500 kV gen-tie line, typically do not present an electrocution potential, based on conductor placement and orientation (APLIC, 2006; 2012).

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Mitigation of Project Impacts on Private Land

As previously described, impacts to habitat would be avoided and minimized by implementing MMs BIO-1 through BIO-5, which would ensure that disturbance of wildlife habitat is minimized and restricted to designated and demarcated work areas and that post-construction habitat values would be improved with re-vegetation. The Project has been designed to avoid desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would preserve habitat values for threatened and endangered wildlife and offset habitat loss.

MM BIO-6 (Wildlife Protection) identifies numerous identifies numerous requirements to manage hazards to wildlife in work areas and report dead or injured wildlife. By performing site inspections; restricting vehicle speed limits; monitoring for wildlife entrapment and providing means of escape in trenches, holes, piping, or water tanks; managing food, trash, and water subsidies; and properly handling hazardous materials, predation, injury, and mortality of special-status wildlife would be reduced. These measures would increase detection of wildlife that require avoidance in Project areas and would prevent attraction to and entry into to the Project site where there is increased likelihood of disturbance.

MMs BIO-1 through BIO-5, would minimize significant impacts to wildlife habitat, including critical habitat. Mitigation for habitat impacts on BLM lands would be implemented in accordance with the DRECP and mitigation measures in the final NEPA document.

MM BIO-6 (Wildlife Protection) identifies numerous requirements during construction to avoid, minimize, and mitigate wildlife injury and mortality, such as site inspections, ramps to ensure escape from excavations, prevention of attractants such as trash or water, hazardous material avoidance, and vehicle speed limits.

MM BIO-7 (Desert Tortoise Protection) would require vehicle inspections for tortoise and vehicle speed limits, which would increase detection of desert tortoise that require avoidance to prevent injury or mortality. If a tortoise is observed within or near a work site, Project work activities will proceed only within a suitable buffer area after the tortoise has either moved away of its own accord, or if it has been translocated off the site under authorization by the USFWS and CDFW, which would avoid tortoise injury and mortality. Compensatory mitigation for desert tortoise shall include a minimum of 1:1 ratio for impacts to desert tortoise suitable habitat (creosote bush scrub) and a ratio of 5:1 for impacts to desert tortoise critical habitat, in coordination with USFWS, CDFW, and in compliance with any ITPs. Compensatory mitigation would offset loss of desert tortoise habitat.

The Desert Tortoise Protection and Relocation Plan (MM BIO-7) (Appendix P) would require a USFWS Authorized Biologist during construction to conduct or direct pre-construction clearance surveys for each work area and direct Biological Monitors to watch for tortoises wandering into the construction areas, check under vehicles, and examine excavations and other potential pitfalls for entrapped animals. The Authorized Biologist shall have the authority to halt all Project activities that are in violation of these measures or that may result in take of a desert tortoise. Desert tortoises would not be handled or moved without incidental take authorization from the USFWS and CDFW. Any desert tortoise handling or translocation would be performed according to the permits and the Desert Tortoise Relocation Plan, pending approval by both agencies. These measures would ensure that desert tortoise are identified and avoided in work areas prior to construction, and safely excluded from burrows and relocated out of harm's way. By following agency protocols for tortoise surveying, handling, and relocating, and by using qualified and permitted biological staff, individual desert tortoise would be detected for avoidance and monitoring, and mortality and injury during construction and relocation would be reduced. MM BIO-7 further requires a Raven Management Plan (EIR Appendix Q), which would be developed to minimize opportunistic predation related to Project subsidies such as trash, food, water, perches, and roadkill. By reducing attractants to the site, desert tortoise predation would be minimized. MM BIO-7 (Desert Tortoise Protection) would require pre-construction clearance surveys, monitoring or exclusion of desert tortoises from active work areas to prevent injury, and a Raven Management Plan to minimize opportunistic predation. It requires a USFWS Authorized Biologist during construction to conduct or direct pre-construction areas, check under vehicles, and examine excavations and other potential pitfalls for entrapped animals. The Authorized Biologist shall have the authority to halt all Project activities that are in violation of these measures or that may result in take of a desert tortoise.

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Tortoises would not be handled or moved without incidental take authorization from the USFWS and CDFW. Any desert tortoise handling or translocation would be performed according to a Desert Tortoise Relocation Plan (IP Easley, 2023), pending approval by both agencies (MM BIO-7). The Applicant may seek this authorization or may opt to avoid any potential desert tortoise take as specified in MM BIO-6 (Wildlife Protection) and MM BIO-7 (Desert Tortoise Protection).

MM BIO-13 (Wildlife Protection Plan) (EIR Appendix R) directs the development of a Wildlife Protection and Relocation Plan to identify and describe species-specific procedures for burrowing owl, desert tortoise, desert kit fox, and American badger. The Plan would require pre-construction wildlife clearance surveys, construction monitoring, buffers, exclusion and relocation methods, handling and transporting procedures, and adaptive management strategies to identify and remediate Project related impacts to threatened and endangered wildlife. These measures would identify, locate, and protect species, including desert tortoise, and remediate Project related impacts to threatened and endangered wildlife. The requirements of MM BIO-7 (Desert Tortoise Protection) are incorporated in the Wildlife Protection Plan to describe the protocols and procedures related to desert tortoise translocation and relocation. By performing protocol surveys, individuals and burrows would be buffered to avoid direct injury or mortality. Passive exclusion of individuals would prevent entrapment during construction, avoid the need for handling, and avoid direct injury and mortality. Collapsing inactive burrows prevents further use to avoid future risk to the species from construction in the Project area.

MM BIO-8 (Bird and Bat Conservation Strategy) (EIR Appendix M), as previously described, would identify Project related hazards and adaptively manage for Project related bird and bat mortality detected on the Project site. By implementing adaptive management, instances of bird mortality associated with solar facilities would be identified and managed to reduce impacts from Project related hazards. MM BIO-9 (Nesting Bird Management Plan) (EIR Appendix O), as previously described, requires performing pre-construction nest surveys and implementing buffers and monitoring around active nests, which would protect nesting birds from disturbance due to increased noise, dust, vibration, and human presence and from direct destruction of nests, eggs, and young.

MM BIO-8 (Bird and Bat Conservation Strategy) would require pre-construction surveys to identify active bird nests in work areas and avoidance of disturbance or disruption nesting behavior.

Once completed, the gen tie lines would have minimal effects on terrestrial wildlife movement because no new barrier to movement would be constructed beneath the line. However, the gen tie towers and conductors would present a collision and electrocution hazard, as described in detail in Impact BIO-1. Birds and bats may collide with the overhead lines, including the gen-tie transmission line. While few nocturnal migrant passerines have been found in the solar arrays, more have been found underneath the gen-tie lines at the solar projects. Large birds can be electrocuted by transmission lines if the bird's wings simultaneously contact conductors, or a conductor and a ground. This happens most frequently when a bird attempts to perch or take off from a structure with insufficient clearance between these elements. Configurations less than 1 kV or greater than 69 kV, like the proposed 500 kV gen-tie line, typically do not present an electrocution potential, based on conductor placement and orientation (APLIC, 2006; 2012).

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Impacts from electrocution due to contact with the gen-tie line would be minimized with implementation of MM BIO-9-10 (Gen-tie Lines) which requires mechanisms in accordance with APLIC standards to visually warn birds such as permanent markers or bird flight diverters; avoid or minimize use of guy wires; and maintain sufficient distance between all conductors and grounded components to prevent electrocution. By implementing these design features, injury and mortality from electrocution would be minimized.

These measures would effectively minimize impacts near the proposed gen-tie routes. MM BIO-8 (Bird and Bat Conservation Strategy) would require O&M adaptive management for bird mortality if mortality thresholds are exceeded.

Construction of towers and fencing would provide increased perching opportunities for predatory birds including raptors and ravens that prey on desert tortoise <u>and other wildlife</u>. <u>MM BIO-6 (Wildlife Protection) includes measures to manage food, trash, and water that may attract ravens.</u> MM BIO-7 (Desert Tortoise Protection) includes preparing and implementing a Raven Management Plan that would manage raven subsidies and attractants. MM BIO-9-10 (Gen-tie Lines) requires the gen-tie structures be designed to discourage use by raptors for perching or nesting. <u>These measures would reduce opportunities for predation in the Project area and reduce desert tortoise mortality from Project features.</u>

Mitigation of Project Impacts on BLM Land

Compliance with applicable CMAs, which would be required on BLM lands would mitigate impacts to less than significant, as described. The following CMAs, previously detailed for Vegetation and Habitat, would also reduce impacts to wildlife habitat used by threatened and endangered species along the gen-tie line for the same reasons as described above in the discussion of impacts to Vegetation and Habitat:

- <u>LUPA-BIO-1 (Biological Resources)</u>.
- <u>LUPA-BIO-2 (Biological Resources).</u>
- LUPA-BIO-5 (Worker Education).
- <u>LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term</u> <u>Disturbance).</u>
- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- <u>LUPA-BIO-3 (Resource Setback Standards).</u>
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

These CMAs reduce impacts to wildlife and habitat by requiring qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot setback buffer would prevent direct removal of sensitive habitat used by many wildlife species for foraging, shelter, breeding, and movement through the Project vicinity. A 200-foot setback would reduce degradation from disturbance in adjacent areas.

Implementation of the following CMAs, as previously described for threatened and endangered wildlife in the Solar and BESS Facility, would minimize impacts to wildlife habitat used by threatened and endangered species along the gen-tie line for the same reasons as described above in the discussion of impacts related to the Solar and Bess Facility:

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- LUPA-BIO-4 (Seasonal Restrictions).
- LUPA-BIO-6 (Subsidized Predators Standards).
- LUPA-BIO-12 (Noise).
- LUPA-BIO-14 (Biology: General Standard Practices).
- LUPA-BIO-15 (Biology: General Standard Practices).
- <u>DFA-BIO-IFS-1 to -3 (Biological Resources)</u>.
- LUPA-BIO-9 (Water and Wetland Dependent Species Resources)
- LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs)
- LUPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species)
- LUPA-BIO-COMP-2 (Compensation (Birds and Bats))
- DFA-BIO-IFS-2 (Biological Resources)
- LUPA-BIO-IFS-1 to -9 (Individual Focus Species (IFS): Desert Tortoise)
- DFA-VPL-BIO-IFS-1 (Individual Focus Species (IFS): Desert Tortoise)

These CMAs reduce disturbance, injury, and mortality of wildlife species, by surveying and buffering for individuals, limiting work during species active seasons, and managing work site hazards and sources of disturbance such as predator subsidies, entrapment hazards, noise, and lighting. Species-specific survey, buffering, and exclusion and relocation requirements will ensure that special-status wildlife are avoided and that disturbances to foraging, sheltering, breeding, and movement are minimized.

Additionally, LUPA-TRANS-BIO-1, -2, and -4 (Biological Resources) requires that transmission lines be developed along roads, other previously disturbed areas, or designated utility corridors; reduce perching opportunities for common raven; and minimize collision risk for birds and bats. Flight diverters must be used on transmission lines within 1,000 feet of stream and wash channels and other bodies of water. Transmission lines must be sited to avoid rare vegetation alliances and sand dependent habitats that support BLM Special Status Species. By implementing these design features, habitat disturbance along the gen-tie line would be minimized, perching of predatory birds would be managed, and injury and mortality of threatened and endangered birds from electrocution from the gen-tie lines would be avoided and minimized.

Mitigation Conclusion

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to threatened and endangered wildlife during construction of the gen-tie lines would be reduced to less than significant.

Operations and Maintenance and Decommissioning

Proposed O&M and decommissioning activities would have similar direct and indirect impacts to vegetation and habitat and threatened and endangered wildlife, as described above. However, the scale of impacts would be less than construction impacts because O&M and decommissioning activities would mostly occur in areas previously disturbed by construction.

During O&M, impacts would be limited to repairs and maintenance of solar panels, associated electrical components, O&M facilities, access roads, fencing, drainages, and culverts. Vegetation would be trimmed infrequently in discrete locations and no heavy equipment would be used for normal operation. Any ground disturbance may result in soil erosion. Herbicides used to manage weed infestations may degrade non-target vegetation in adjacent areas. Washing of solar panels would introduce additional water to the site, which would supplement natural sources and may affect vegetation composition or persistence, or <u>attract wildlife to the Project area</u>. However, panel washing would be performed infrequently (up to four

times each year) if natural rains do not sufficiently clear dust and debris. No chemical agents would be used for module washing. It is not expected that panel washing and the supplemental water would be enough to affect vegetation community composition or persistence <u>or provide a long-term water source</u> <u>for wildlife</u>. If the proposed Project facility elevates ambient temperature within the site, surrounding vegetation and habitat may be indirectly impacted.

Facilities would be fenced, excluding larger wildlife, while small mammals and reptiles may pass through fencing to occupy the areas around O&M facilities, where they may be at risk of vehicle strike from maintenance vehicles or disturbance from mowing and maintenance activities. If wildlife-friendly fencing is used during O&M additional wildlife species, such as desert tortoise, may be able to enter Project areas where they may be subject to disturbance, injury, or mortality. Wildlife-friendly fencing would be implemented in coordination with USFWS and CDFW and only after successful revegetation of Project areas, in order to support suitable habitat for wildlife species. Birds within the facility may be at risk of injury from collision with solar panels or electrocution from the gen-tie lines, as described for native birds. During O&M, herbicides used to treat invasive weeds may also pose risks to terrestrial or aquatic wildlife species. Herbicides (e.g., by digging or rolling in treated soil). O&M related ground disturbance may result in direct crushing or burial of wildlife where repairs or replacement are needed. Maintenance around facilities may temporarily increase human presence, opportunistic predators, noise, dust, and vehicle traffic, which may disrupt wildlife behavior or cause mortality.

Impacts during Project decommissioning would be similar to those during construction and would occur in previously disturbed areas. Decommissioning activities would require similar equipment and workforce as construction but would be substantially less intense, including removal of all equipment and cables, facilities, primary roads, and concrete pads. During decommissioning, habitat disturbance may result from disassembling and transporting facilities, or from site remediation. The Project would be dismantled as described in Section 2.6, per an agency-approved Closure and Decommissioning Plan, and a majority of components would be recycled or reused. Following decommissioning, the Proposed Project site would be revegetated with native plants and re-seeded as required by the Decommissioning Plan.

Direct and indirect impacts from O&M and decommissioning would be minimized <u>and</u>, avoided, or offset with measures such as biological monitoring by qualified biologists; worker training on sensitive biological resources; flagging, surveying, and monitoring of work areas; weed management; restoration of disturbed areas; <u>fence inspections</u>; and protection <u>and relocation</u> of wildlife and special-status species, as previously described for MMs BIO-1 through BIO-910 and MM BIO-14. CMAs, as previously outlined for construction, would be implemented to reduce impacts. These measures would restrict impacts to designated work areas, ensure that native habitat values are improved post-construction, and reduce injury and mortality of threatened and endangered wildlife that may occur in the Project area.

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to threatened and endangered species and their habitat during O&M and decommissioning would be reduced to less than significant.

Mitigation Measures for Impact BIO-2

The full text of the following mitigation measures is included in Section 3.5.93.5.7 (Mitigation Measures).

- MM BIO-1 Biological Monitoring.
- MM BIO-2 Worker Environmental Awareness Training.
- MM BIO-3 Minimization of Vegetation and Habitat Impacts.
- MM BIO-4 Integrated Weed Management Plan.

- MM BIO-5 Vegetation Resources Management Plan.
- MM BIO-6 Wildlife Protection.
- MM BIO-7 Desert Tortoise Protection.
- MM BIO-8 Bird and Bat Conservation Strategy.
- MM BIO-9 Nesting Bird Management Plan.
- MM BIO-<u>109</u> Gen-tie lines.
- MM BIO-13 Wildlife Protection Plan.

DRECP CMAs for Impact BIO-2

Applicable CMAs are detailed in Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA.

LUPA-BIO-1 (Biological Resources).

LUPA-BIO-2 (Biological Resources).

LUPA-BIO-5 (Worker Education).

<u>LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term</u> <u>Disturbance).</u>

LUPA-BIO-10 (Standard Practices for Weed Management).

LUPA-BIO-11 (Nuisance Animals and Invasive Species).

LUPA-BIO-13 (General Siting and Design).

LUPA-BIO-SVF-1 (Special Vegetation Features).

LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management).

LUPA-BIO-3 (Resource Setback Standards).

LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).

LUPA-BIO-SVF-6 (Special Vegetation Features).

LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

LUPA-BIO-4 (Seasonal Restrictions).

LUPA-BIO-6 (Subsidized Predators Standards).

LUPA-BIO-12 (Noise).

LUPA-BIO-14 (Biology: General Standard Practices).

LUPA-BIO-15 (Biology: General Standard Practices).

DFA-BIO-IFS-1 to -3 (Biological Resources).

LUPA-BIO-IFS-1 to -9 (Individual Focus Species (IFS): Desert Tortoise)

DFA-VPL-BIO-IFS-1 (Individual Focus Species (IFS): Desert Tortoise)

LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs)

LUPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species)

LUPA-BIO-COMP-2 (Compensation (Birds and Bats))

DFA-BIO-IFS-2 (Biological Resources)

LUPA-BIO-9 (Water and Wetland Dependent Species Resources)

LUPA-TRANS-BIO-1, -2, and -4 (Biological Resources)

Significance After Mitigation

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, this impact would be less than significant. This impact would be less than significant with implementation of mitigation measures identified abo

Impact BIO-3. The Project would interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites.

Solar and BESS Facility

LESS THAN SIGNIFICANT WITH MITIGATION.

Impacts Discussion

Wildlife movement through the area to the north, east, and south is compromised by the existing pattern of land use, including solar projects either planned, in-construction, or operational: lands west of the Project site, across Kaiser Road, are designated as Tortoise Conservation Area (TCA). The Desert Harvest and Desert Sunlight Solar Projects are adjacent to the north, and the Athos and Oberon Solar Projects -are adjacent to the east and south. The Arica and Victory Pass Solar Projects and the I-10 freeway are located in the vicinity to the east and south. The proposed solar facility would further interrupt potential wildlife movement routes through the area, primarily for movement across undisturbed desert scrub and desert dry wash woodland habitat and anthropogenically disturbed land (agriculture).

Desert dry wash woodland serves as an important movement corridor for wildlife. This habitat provides greater food, nesting, and cover, and its wildlife diversity is generally greater than in the surrounding desert. Approximately 9.113.3 acres of desert dry wash woodland would be impacted in the solar facility development area and from exterior components (roads & MVAC) (Table 3.5-1a). These impacts would primarily occur on public lands (BLM); approximately 91.2 acres of desert dry wash woodland would be avoided in the solar facility development area (Table 3.5-1b).

The northern portion of the Project area overlaps with a BLM DRECP wildlife linkage (Pinto Wash linkage) (BLM, 2015); however, since the Project site is within a BLM DRECP DFA (Figure 2-4), development for renewable energy was targeted for this area and solar development already existed within this linkage area prior to development of the DRECP (Desert Sunlight) (Figure 3.5-10). Under the DRECP, the Pinto Wash linkage occupies a vast area over 32,500 acres. The DRECP FEIS notes that up to 6,000 acres of desert linkage network could be impacted by solar development in the Cadiz Valley and Chocolate Mountains area (BLM, 2015). Additionally, this portion of the linkage is categorized by the DRECP as non-habitat or low-quality habitat (Ironwood, 20232). The boundaries of the area serving a linkage function in this area have changed over time and the Pinto Wash linkage boundary, as codified in the DRECP, includes approximately 10,000 acres that lack potential for desert tortoise connectivity due to low quality habitat and existing obstacles to movement.

The predicted occupancy model (Nussear et al. 2009), as discussed in Section 3.5.1, identifies where tortoises are likely to occur and which portions of the Pinto Wash linkage are important to tortoise connectivity. Notably, the portion of the linkage that overlaps with the DFA and the Easley Project site does not have high predicted occupancy and is not critical to tortoise connectivity. The habitat west of Kaiser Road and north of the adjacent Desert Sunlight Solar Farm (DSSF) is depicted as high quality and connected to critical habitat and Joshua Tree National Park to maintain a functional corridor.

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Several sources including the Biological Opinion for the DSSF (USFWS, 2011<u>b</u>) and the Desert Harvest Solar Project (USFWS, 2013), Hagerty and Tracy (2010), Penrod Et. al (2012), and Averill-Murray Et. al (2021) indicate that the critical linkage areas and least cost pathways are located west of Kaiser Road and northwest of the DSSF, where higher quality habitat is present (Ironwood, 2023a<u>4</u>).

Within the development footprint, the Project would have a long-term impact on approximately <u>594510</u> acres of low-quality <u>or non-</u>habitat in the southernmost portion of the Pinto Wash linkage. Further conversion of the linkage area to solar development would <u>exacerbate fragmentation of habitat and</u> largely prevent movement across it for many species, including desert tortoise and burro deer. However, the proposed Project would avoid development on approximately <u>446530</u> acres of the linkage within the Project area. The avoided portion of the linkage is primarily DDWW habitat adjacent to Big Wash, which would maintain east-west connectivity through the northern portion of the Project site that overlaps the linkage. The Easley Project site does not occur within high-quality habitat in the Pinto Wash linkage or within modelled linkage areas, and the best modelled habitat for connectivity in the Pinto Wash linkage is within the northern and western portions of the linkage where it does not overlap with the Easley Project site or the DFA. Based on the lack of high-quality habitat and the location of modelled linkages, the portion of the Project overlapping with the Pinto Wash linkage will not impact its functionality.

Habitat Quality Categories	Acres overlap with Project Boundary	Acres of Impact in Project Boundary	Acres Avoided in Project Boundary
Non-habitat	771.5 730.8	391.2 341.2	380.3<u>389.6</u>
Low quality habitat	268.5<u>309.8</u>	202.5<u>169.0</u>	66.0<u>140.8</u>
High quality habitat	0	0	0
Total (all within DFA)	1040.0 1,040.5	593.7<u>510.2</u>	<u>446.3 530.4</u>

Table 3.5-2 Impacts to Pinto Wash Linkage

Construction activities could temporarily discourage wildlife from approaching the Project site due to noise and disturbance. Night lighting and increased human presence could discourage wildlife from moving around the Project. After construction, the proposed solar facilities would interfere with local-scale wildlife movement by any species unable to cross the facilities due to Project fencing.

Mitigation of Project Impacts on Private Land

Without mitigation, impacts to wildlife movement would be significant.

Due to implementation of the Project features described below the avoidance of desert dry wash woodland during project design, the desert dry wash woodland and the multi-species linkage would continue to allow wildlife passage for many species across or around the Easley Project.

Connectivity Corridors. As described above, the Project has been designed to avoid impacts to desert dry wash woodland (except for minor incursions) on private lands and BLM lands as part of the Project design (Section 2.7.3), consistent with DRECP CMA LUPA-BIO-RIPWET-1 (see below and in EIR Appendix CC). The avoidance of 446530 acres of the Pinto Wash linkage overlapping the Project area, comprised primarily of desert dry wash woodlands, would preserve connectivity to the larger, more functional woodland areas along the adjacent Big Wash. Avoiding this portion of the linkage is consistent with preserving the value of the desert dry wash woodland resource, as required by the DRECP CMA LUPA-BIO-13. Avoidance of

732–728 acres of desert dry wash woodland in the solar facility development area would preserve movement opportunities in and through the solar facility site.

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Wildlife Friendly Fencing. The Applicant may elect to use wildlife friendly fencing on portions of the proposed facility based on its success at the adjacent Oberon Renewable Energy Project (see Section 2.7.4). If wildlife friendly fencing is implemented, after vegetation is substantially reestablished, temporary desert tortoise exclusion fencing may be removed after construction. Wildlife friendly fencing would provide movement opportunities for small wildlife between revegetated habitats in the development footprint and any adjacent undeveloped habitats, including desert dry wash woodland. This fencing would maintain a level of habitat functionality and minimize fragmentation for small terrestrial wildlife in the Project area. O&M safety practices, including worker training and biological monitoring of nesting, burrowing, or denning wildlife, would be implemented to maximize long-term safety of wildlife present at the site.

Night Lighting. With implementation of MM VIS-1 (see EIR Section 3.2, Aesthetics), long-term night lighting that could affect nocturnal and other wildlife and wildlife movement would be minimized to the maximum extent feasible and coordinated with the BLM.

These Project design elements The avoidance of desert dry wash woodland within the Pinto Wash Linkage would avoid and minimize impacts to wildlife movement in the Project area, as described. The Project would not threaten the long-term viability and function of the corridor (per DRECP CMA LUPA-BIO-IFS-1).

Impacts to native habitat would be mitigated in accordance with regulatory permits from the CDFW and RWQCB. Impacts to desert dry wash woodland would be avoided on private lands, as on BLM lands in accordance with the DREPC CMAs. Mitigation for habitat impacts on BLM lands would be implemented in accordance with the DRECP and mitigation measures in the final NEPA document.

Wildlife "nursery sites" such as bird nests or suitable breeding habitat for other species may be found throughout the Project site, particularly in native habitat areas. MMs BIO-1 through BIO-5 would minimize habitat impacts for common wildlife and special-status species. MMs BIO-1 to MM BIO-5, as discussed in detail for Vegetation and Habitat, require use of qualified biologists for surveying and monitoring (MM BIO-1 Biological Monitoring), training of construction personnel on identifying and avoiding sensitive plant and wildlife resources (MM BIO-2 Worker Environmental Awareness Training), clear demarcation of vegetation for removal and low impact site preparation (MM BIO-3 Minimization of Vegetation and Habitat Impacts), managing herbicide use and the introduction and spread of non-natives in disturbance areas (MM BIO-4 Integrated Weed Management Plan), and revegetating with native habitat (MM BIO-5 Vegetation Resources Management Plan). These measures would ensure that loss, degradation, contamination, and disturbance of nesting, breeding, and corridor habitat is minimized and restricted to designated work areas and that native habitat values for wildlife are improved in disturbance areas post-construction.

MM BIO-6 (Wildlife Protection) identifies numerous requirements to manage hazards to wildlife in work areas and report dead or injured wildlife, as described in detail in Impact BIO-1 for special-status wildlife. These measures would increase detection of wildlife in Project areas that require avoidance and would prevent attraction to the Project site where there is increased likelihood of disturbance.

by implementing biological monitoring during construction, WEAP training for construction personnel, and post-construction vegetation and weed management. MMs BIO-6-7 through BIO-11-13 would prevent significant impacts to <u>specific</u> special-status wildlife <u>species</u> and nesting or breeding sites by requiring specific pre-construction surveys, <u>species</u> protection plans, passive <u>exclusion of wildlife from work areas</u> <u>or relocation or</u> translocation of certain species away from the area, <u>and</u> avoidance of buffer areas while bird nests <u>and occupied burrows and dens</u> are active, and other related requirements. MM BIO-9 (Nesting Bird Management Plan) (EIR Appendix O), as previously described, requires performing pre-construction nest surveys and implementing buffers and monitoring around active nests, which would protect nesting birds from disturbance due to increased noise, dust, vibration, and human presence and from direct destruction of nests, eggs, and young.

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These measures ensure that work areas would be inspected and surveyed, and that special-status wildlife would be identified, monitored, buffered and avoided, or properly excluded or relocated, which is expected to reduce the likelihood and severity of injury, and the likelihood of mortality of wildlife with potential to move through the Project areas or use the site for breeding or rearing of young.

The Project has been designed to avoid desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would preserve habitat values and corridors for wildlife movement and would offset habitat loss.

With implementation of MM VIS-1 (see EIR Section 3.2, Aesthetics), long-term night lighting that could affect nocturnal and other wildlife and wildlife movement would be minimized to the maximum extent feasible and coordinated with the BLM.

Mitigation of Project Impacts on BLM Land

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with these CMAs, which would be required on BLM lands, would mitigate impacts to less than significant, as described.

The following CMAs, previously detailed for Vegetation and Habitat in Impact BIO-1, would also reduce impacts to habitat in movement corridors for the same reasons as described above in the discussion of impacts to Vegetation and Habitat in Impact BIO-1:

- LUPA-BIO-1 (Biological Resources).
- LUPA-BIO-2 (Biological Resources).
- LUPA-BIO-5 (Worker Education).
- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance).
- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-SVF-1 (Special Vegetation Features).
- LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management).
- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

Similar to the requirements of the MMs that would be implemented on private land within the Project site, these CMAs reduce impacts to wildlife and habitat by requiring qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot setback buffer would prevent direct removal of sensitive habitat.

Additionally, LUPA-BIO-13 (General Siting and Design) requires projects along the edges of the biological linkages to maximize the retention of microphyllous woodlands, in order to maintain the function of the

connectivity area. By avoiding desert dry wash woodland with a setback buffer, Project areas would be left open to wildlife movement and the Project would not threaten the long-term viability and function of the corridor.

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Mitigation Conclusion

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to wildlife movement, breeding, and rearing of young would be mitigated to less than significant.

500 kV Gen-Tie, Collector, and Distribution Lines

LESS THAN SIGNIFICANT WITH MITIGATION.

Impacts Discussion

Many wildlife species are expected to move through the area, across the gen-tie and medium voltage collector and distribution line routes. <u>The gen-tie line would cross through a portion of the Oberon Project site that overlaps with the multi-species linkage in that area (Figure 3.5-1). However, since the Project site is within a BLM DRECP DFA (Figure 2-4), development for renewable energy was targeted for this area. Solar development already exists or is in construction within this linkage area (Oberon, Athos, Arica, Victory Pass Solar Projects) (Figures 3.5-1 and 3.5-10 in Appendix A), and avoidance of desert dry wash woodland on these project sites and the Oberon Project site, in accordance with DRECP CMAs, would preserve habitat for wildlife movement in the linkage.</u>

Construction activities could dissuade wildlife from approaching construction areas due to noise and disturbance. This effect would be temporary (limited to construction phase) and, for above ground lines, would occur at discrete sites in the adjacent Oberon Project site. If the 34.5 kV or 12 kV lines are installed overhead, similar types of impacts would occur at the pole sites located outside of the solar facility fence line. An underground collector line would require trenching, which may create a temporary barrier to movement for wildlife that cannot effectively cross the trench and a temporary hazard for wildlife that may get trapped in it.

Impacts to habitat used for wildlife movement would be avoided and minimized with implementation of MMs BIO 1 to BIO 5, as previously described. MM BIO 6 (Wildlife Protection) identifies numerous requirements during construction to avoid, minimize, and mitigate wildlife injury and mortality, including checking the Project site for entrapped wildlife. MM BIO-8 (Bird and Bat Conservation Strategy) would require pre-construction surveys to identify active bird nests and avoidance of disturbance or disruption nesting behavior.

Once completed, the transmission lines would have minimal effects on terrestrial wildlife movement because no new barrier to movement would be constructed. However, the gen-tie towers and conductors would present a collision and electrocution hazard for birds and bats, disrupting their movement through the Project vicinity (see Impact BIO-1). <u>The tallest Any gen-tie structures over 180 feet would be lit with infrared safety lights at crossing locations to alert low-level military flights of the gen-tie line. Generally, few wildlife species, including some snakes, fish, bullfrogs, and potentially insects, can sense infrared light (Tali, 2018). While species that can detect infrared light are primarily cold-blooded, specifically vampire bats also have the ability to detect it. Bats can detect heat (infrared radiation) through thermoreception. However, bats sensitivity to infrared light is generally much lower compared to their sensitivity to other wavelengths of light. While bird and bat species that occur near the Project area are not expected to be attracted to the infrared lighting, they could be attracted to gathering insects, whereby the new lighting could indirectly disrupt nighttime bird flight in the area.</u>

Attraction of birds and bats due to increased insect activity could put them at risk of collision and electrocution in the vicinity of Project components. However, recent studies suggest insects are not attracted to infrared light, meaning it is unlikely that infrared lighting atop gen-tie structures would attract significant swarms of insects. (Fabian et al., 2024) Because there are only up to six towers at one crossing location that may require infrared lighting in the broad region, any resulting increase in risk of collision with the gen-tie structures due to any increased presence of insects attracted to the infrared lights would be minor and less than significant.

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Mitigation of Project Impacts on Private Land

Impacts to habitat used for wildlife movement would be avoided and minimized with implementation of MMs BIO-1 to BIO-5, as previously described. The Project has been designed to avoid desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would preserve habitat values for wildlife movement and offset habitat loss.

MM BIO-6 (Wildlife Protection) identifies numerous requirements during construction to avoid, minimize, and mitigate wildlife injury and mortality, including checking the Project site for entrapped wildlife. MM BIO-8 (Bird and Bat Conservation Strategy) would require pre-construction surveys to identify active bird nests and avoidance of disturbance or disruption nesting behavior.

MM BIO-9-10 (Gen-tie Lines) would require mechanisms in accordance with APLIC standards to visually warn birds such as permanent markers or bird flight diverters, avoid or minimize use of guy wires, and maintain sufficient distance between all conductors and grounded components to prevent electrocution. By implementing these design features, injury and mortality from electrocution while moving across the proposed gen-tie lines would be minimized. These measures would effectively minimize impacts to wildlife movement across the proposed transmission line routes. MM BIO-8 (Bird and Bat Conservation Strategy) would require an-implementation of an adaptive management framework for O&M monitoring of bird mortality, based on monitoring at other solar sites, which would identify and manage Project related hazards, and reduce instances of mortality associated with solar facilities. Some of these mechanisms to reduce the risk of collision are identified in MM BIO-10 (Gen-tie Lines) and could include marking the shield wires, reducing use of guy wires, and meeting other APLIC standards. Additionally, similar mitigation measures required to be implemented for the Oberon Project are included in its Final EIR (RWQCB, 2021) and Final EA (BLM, 2022). Conservation Management Actions (CMAs) would also be implemented on BLM lands per the DRECP, as described in the Final EA for the Oberon Project.

Mitigation of Project Impacts on BLM Land

The Project is required to comply with DRECP CMAs for all Project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations in any ROW Grant issued for the Project. Compliance with these CMAs, which would be required on BLM lands, would mitigate impacts on BLM land to less than significant, as described.

The following CMAs, previously detailed for Vegetation and Habitat in Impact BIO-1, would reduce impacts on wildlife movement for the same reasons as described above in the discussion of impacts to Vegetation and Habitat:

- LUPA-BIO-1 (Biological Resources).
- LUPA-BIO-2 (Biological Resources).
- LUPA-BIO-5 (Worker Education).

 <u>LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term</u> <u>Disturbance).</u>

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- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-SVF-1 (Special Vegetation Features).
- LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management).
- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

Similar to the requirements of the MMs that would be implemented on private land within the Project site, these CMAs reduce impacts to wildlife and habitat by requiring qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot setback buffer would prevent direct removal of sensitive habitat.

LUPA-BIO-13 (General Siting and Design) requires projects along the edges of the biological linkages to maximize the retention of microphyllous woodlands, in order to maintain the function of the connectivity area. By avoiding desert dry wash woodland with a setback buffer, Project areas would be left open to wildlife movement and the Project would not threaten the long-term viability and function of the corridor.

LUPA-TRANS-BIO-1, -2, and -4 (Biological Resources) requires that transmission lines be developed along roads, other previously disturbed areas, or designated utility corridors; reduce perching opportunities for common raven; and minimize collision risk for birds and bats. Flight diverters must be used on transmission lines within 1,000 feet of stream and wash channels and other bodies of water. Transmission lines must be sited to avoid rare vegetation alliances and sand dependent habitats that support BLM Special Status Species. By implementing these design features, habitat disturbance along the gen-tie line would be minimized, perching of predatory birds would be managed, and injury and mortality of birds and bats from electrocution while moving across the proposed gen-tie lines would be avoided and minimized.

Mitigation Conclusion

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to wildlife movement, breeding, and rearing of young would be mitigated to less than significant.

Operations and Maintenance and Decommissioning

Proposed O&M and decommissioning activities would have similar direct and indirect impacts on wildlife movement as described above. However, the scale of impacts would be less than construction impacts.

During O&M, impacts would be limited to repairs and maintenance of solar panels, associated electrical components, O&M facilities, access roads, fencing, drainages, and culverts. Vegetation would be trimmed infrequently in discrete locations and no heavy equipment would be used for normal operation. Any ground disturbance may result in soil erosion. Infrequent panel washing is not expected to impact habitat persistence or composition.

Facilities would be fenced, excluding movement through the Project site for larger wildlife. Small mammals and reptiles may pass through fencing to occupy the areas around O&M facilities, where they may be at risk of <u>disturbance or injury or mortality from</u> vehicle strike<u>s</u>, <u>mowing</u>, <u>and maintenance activities</u>. If wildlife-friendly fencing is used during O&M additional wildlife species, such as desert tortoise, may be able to enter Project areas where they may be subject to disturbance, injury, or mortality. Wildlife-friendly fencing would be implemented in coordination with USFWS and CDFW and only after successful revegetation of Project areas, in order to support suitable habitat for wildlife species.

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Birds within the facility may be at risk of injury from collision with solar panels or electrocution from the gen-tie lines, as described for native birds. If the Project facility elevates ambient temperature within the site, wildlife movement patterns in and around the site may be disrupted.

O&M related vegetation or ground disturbance where repairs or replacement are needed may result in disruption of wildlife movement patterns or behaviors. Maintenance around facilities may temporarily increase human presence, opportunistic predators, noise, dust, night lighting, and vehicle traffic, which may disrupt wildlife movement and temporarily discourage wildlife from approaching the Project site.

Impacts during Project decommissioning would be similar to those during construction and would occur in previously disturbed areas. Decommissioning activities would require similar equipment and workforce as construction but would be substantially less intense, including removal of all equipment and cables, facilities, primary roads, and concrete pads. During decommissioning, habitat disturbance may result from disassembling and transporting facilities, or from site remediation. The Project would be dismantled as described in Section 2.6, per an agency-approved Closure and Decommissioning Plan, and a majority of components would be recycled or reused. Following decommissioning, the Proposed Project site would be revegetated with native plants and re-seeded as required by the Decommissioning Plan.

Direct and indirect impacts from O&M and decommissioning would be minimized <u>or</u>, avoided, or offset with measures such as biological monitoring by qualified biologists; worker training on sensitive biological resources; flagging, surveying, and monitoring of work areas; weed management; restoration <u>revegetation</u> of disturbed areas; fence inspections; and protection, relocation, and avoidance of wildlife and special-status species, as previously described for MMs BIO-1 through BIO-1114. CMAs, as previously outlined for construction, would be implemented to reduce impacts. These measures would restrict impacts to designated work areas, ensure that native habitat values are improved post-construction, and reduce injury and mortality of special-status wildlife that may occur in the Project area. With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, O&M and decommissioning-related impacts would be less than significant.

Mitigation Measures for Impact BIO-3

The full text of the following mitigation measures is in Section 3.5.93.5.7 (Mitigation Measures).

MM BIO-1	Biological Monitoring.
MM BIO-2	Worker Environmental Awareness Training.
MM BIO-3	Minimization of Vegetation and Habitat Impacts.
MM BIO-4	Integrated Weed Management Plan.
MM BIO-5	Vegetation Resources Management Plan.
MM BIO-6	Wildlife Protection.
MM BIO-7	Desert Tortoise Protection.
MM BIO-8	Bird and Bat Conservation Strategy (BBCS).
MM BIO-9	Nesting Bird Management Plan (NBMP).
MM BIO- <u>109</u>	Gen-tie Lines.
MM BIO-1 <u>1</u> 0	Burrowing Owl Avoidance and Relocation.
MM BIO-1 <u>2</u> 4	Desert Kit Fox and American Badger Relocation.
MM BIO-13	Wildlife Protection and Relocation Plan.

DRECP CMAs for Impact BIO-3

Applicable CMAs are detailed in Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA.

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LUPA-BIO-1 (Biological Resources).

LUPA-BIO-2 (Biological Resources).

LUPA-BIO-5 (Worker Education).

<u>LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term</u> <u>Disturbance).</u>

LUPA-BIO-10 (Standard Practices for Weed Management).

LUPA-BIO-11 (Nuisance Animals and Invasive Species).

LUPA-BIO-13 (General Siting and Design)

LUPA-BIO-SVF-1 (Special Vegetation Features).

LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management).

LUPA-BIO-3 (Resource Setback Standards).

LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).

LUPA-BIO-SVF-6 (Special Vegetation Features).

LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

LUPA-TRANS-BIO-1, -2, and -4 (Biological Resources)

Significance After Mitigation

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, this impact would be less than significant. This impact would be less than significant with implementation of mitigation measures identified above.

Impact BIO-4. The Project would have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U. S. Fish and Wildlife Service.

LESS THAN SIGNIFICANT WITH MITIGATION. Natural communities with ranks of S1-S3 are considered sensitive and rare by CDFW (CDFW, 2023a). S4 communities are defined as sensitive and apparently secure; uncommon, but not rare in the state, with some cause for long-term concern due to declines or other factors. Desert dry wash woodland is a sensitive habitat type as identified in the NECO Plan and DRECP and has a State rarity rank of S4 (CDFW, 2023a). –It is a riparian community characteristic of regional episodic hydrologic systems of the regional desert.

Desert pavement, while not a sensitive vegetation type, is a unique geomorphic condition resulting in tightly interlocking gravel substrates with cryptogamic crusts. Within the Colorado desert, stands are common in the valleys, often found within creosote bush scrub and associated with the sensitive, but not rare vegetation alliance described as rigid spineflower (*Chorizanthe rigida*)-hairy desert sunflower (*Geraea caenscens*) sparsely vegetated alliance. On the Project site, rigid spineflower does not occur, so the vegetation alliance is not fully met, but will still be treated as a sensitive community in this EIR. , a unique habitat type with a State rarity rank of S4, was identified on the Project site; however, it is not considered

a sensitive natural community by CDFW (CDFW, 2023a). No other sensitive natural communities are found on the Project site.

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Solar and BESS Facility

Impacts Discussion

Desert dry wash woodland is located throughout the Project site primarily almost exclusively on BLMadministered lands. Acres of impact to desert dry wash woodland from minor incursions, as defined by BLM, and acres of impact to desert pavement are shown in Tables 3.5-1a and 3.5-1b. Of the approximately 31.613.3 acres of desert dry wash woodland that would be impacted through minor incursions at the solar and BESS facility, approximately 1.2 acres are located on private land. Approximately 0.2 acres of desert dry wash woodland would be impacted on private lands. Impacts to vegetation and habitat, including desert dry wash woodland, would be similar to those described in Impact BIO-1. Construction of the solar facility would avoid impacts to desert dry wash woodland with a 200-foot buffer in compliance with the BLM DRECP.

Desert dry wash woodland provides greater food, nesting, and cover, and its wildlife diversity is generally greater than in the surrounding desert. Examples of special-status species that depend in part on desert microphyll woodlands include black-tailed gnatcatcher and burro deer. In addition, many of the species occupying the surrounding upland desert shrublands are found in greater numbers in microphyll woodlands.

Approximately 38.9 acres of desert pavement would be disturbed in the western portion of the Project area on BLM-administered lands, primarily underlying solar arrays. The remaining mapped desert pavement in the Project site is within or near areas of dry desert wash woodland avoidance and would not be disturbed by Project construction. No desert pavement would be impacted on private lands.

Desert pavement is comprised of unique geomorphic conditions comprised of tightly packed gravel and sparse vegetation that armors the ground surface, prohibits fine soil particles from being entrained by wind (Potter, 2016), and protects the finer grained underlying sediment from further erosion (see Section 3.8). If left undisturbed, this desert pavement restricts the infiltration of water into the underlying soils and allows desert runoff to playas near Desert Center. Disturbed soils and desert pavement can cause or accelerate erosion, the generation of fugitive dust, and increase sediment in stormwater runoff to ephemeral streams and playa lakes, causing increased turbidity and sedimentation. Some of the surface soils in the area have been disturbed by past activities, including agricultural uses, grading of roads, and use as a World War II maneuver area (see Section 3.10, Hazards and Hazardous Materials), that have likely disrupted and significantly reduced the amount of desert pavement in the area.

Without mitigation, impacts to desert dry wash woodlandsensitive communities could include the removal of vegetation and loss of habitat and unique habitat features for plant and wildlife species, as described in Impact BIO-1. Construction activities would expose soil and increase the potential for wind and water erosion, resulting in the ecological loss of unique soil characteristics. Ground disturbance undermines the stability of soil and biotic crusts, leading to greater potential for erosion; affects soil density, compaction, and water infiltration, cutting off water supplies to plant roots; and promotes invasion by exotic plant species. These factors contribute to degradation of habitat quality for native wildlife and plant species, and disturbance can affect the ability of an area to support these species.

Mitigation of Project Impacts on Private Land

Impacts to native habitats on the Easley site, including desert dry wash woodland, would be minimized by implementing MMs BIO 1 through BIO 5. Impacts to sensitive communities on the Project site, including desert dry wash woodland and desert pavement, would be further minimized with implementation of MMs BIO-1 through BIO-5, as previously described in Impact BIO-1. MMs BIO-1 to MM BIO-5 require use

of qualified biologists for surveying and monitoring (MM BIO-1 Biological Monitoring), training of construction personnel on identifying and avoiding sensitive plant and wildlife resources (MM BIO-2 Worker Environmental Awareness Training), clear demarcation of vegetation for removal and low impact site preparation (MM BIO-3 Minimization of Vegetation and Habitat Impacts), managing herbicide use and non-natives in disturbance areas (MM BIO-4 Integrated Weed Management Plan), and revegetating with native habitat (MM BIO-5 Vegetation Resources Management Plan). These measures would ensure that loss, degradation, contamination, and disturbance of vegetation and habitat is minimized and restricted to designated work areas, and that native habitat values are improved and soils are stabilized in disturbance areas post-construction. Impacts to native habitat would be mitigated in accordance with regulatory permits from the CDFW and RWQCB. Mitigation for habitat impacts on BLM lands would be implemented in accordance with the DRECP and mitigation measures in the final NEPA document.

Per MM BIO-3, erosion control shall be implemented as described in the Drainage Erosion and Sedimentation Control Plan (DESCP) (MM HWQ-1), which requires identification of erosion treatments for exposed soil, such as chemical-based dust pallatives, soil bonding, and weighting agents suitable for use around vegetation. Additional BMPs to minimize erosion, as committed to by the Applicant and incorporated into the Project Description, are described in Section 2.7 and include designation of primary travel routes, limiting grading to specific areas, building racking material in laydown areas to minimize use of roads, using equipment with smaller rubber-wheeled vehicles, maintaining hydrologic flow patterns, and preserving propagule islands to support vegetation recovery.

MM BIO-14 (Streambed and Watershed Protection) would require Best Management Practices (BMPs) to protect stream channels and water resources and prevent erosion on the Project site, which would protect against degradation of desert dry was woodland and desert pavement communities. BMPs limit operation of vehicles and equipment in flowing or ponded water and construction in ephemeral drainages, and require containment and cleanup of fuels and construction debris to prevent contamination and pollution of waterways. Impacts to jurisdictional features (see Impact BIO-5) would require coordination with CDFW regarding a Lake and Streambed Alteration Agreement (LSAA) and with RWQCB regarding Waste Discharge Requirements (WDR), which would have permit requirements to protect stream channels, wetlands, and waters, including desert dry wash woodlands.

Avoidance of desert dry wash woodland (except for minor incursions and where there is exiting intervening infrastructure), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14) and desert pavement at a ratio of 1:1 (MM BIO-3) would preserve and offset loss of sensitive habitats.

Mitigation of Project Impacts on BLM Land

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with these CMAs, which would be required on BLM lands, would mitigate impacts on BLM land to less than significant, as described.

The following CMAs, previously detailed for Vegetation and Habitat in Impact BIO-1, would also reduce impacts to sensitive natural communities and riparian habitats for the same reasons as described above in the discussion of impacts to Vegetation and Habitat:

- LUPA-BIO-1 (Biological Resources).
- LUPA-BIO-2 (Biological Resources).
- LUPA-BIO-5 (Worker Education).
- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance).

- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

Similar to the requirements of the MMs that would be implemented on private land within the Project site, these CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would preserve sensitive habitat in the Project area and prevent degradation from disturbance in adjacent areas. Compensation would offset habitat loss.

Mitigation Conclusion

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to sensitive communities and riparian habitats would be mitigated to less than significant. Implementation of MMs would minimize and avoid significant impacts to desert dry wash woodland.

500 kV Gen-Tie, Collector, and Distribution Lines

Impacts Discussion

The proposed gen-tie line primarily crosses through the existing Oberon <u>Renewable Energy</u> Project site (RWQCB, 2021; BLM, 2022), on BLM lands. <u>Construction and O&M of the Project's gen-tie line component</u> would not impact sensitive vegetation communities on private lands (Table 3.5-1b). On BLM-lands, approximately 4.4 acres of desert dry wash woodland and 1.1 acres of desert pavement would be impacted along the gen-tie line.

<u>Any ilepsets</u> to desert dry wash woodland and desert pavement would be similar to those described for the solar and BESS facility; however, above ground gen-tie construction would affect vegetation and habitat at discrete disturbance sites where towers or other work activities would be located. If the 34.5 kV or 12 kV lines are installed overhead, similar types of impacts would occur at the pole sites located outside of the solar facility fence line. Underground collector lines would require trenching and disturbance of habitats as described in Impact BIO-1. Impacts on the Oberon Project site were evaluated as part of the Final EIR and Final EA (RWQCB, 2021; BLM, 2022).

Mitigation of Project Impacts on Private Land

Construction and O&M of the Project's gen-tie line component would not impact sensitive natural communities.-Implementation of MMs BIO-1 through BIO-5 would avoid and minimize impacts to native habitat, including minor incursions to desert dry wash woodland on the Easley Project site.-, as discussed for the solar and BESS facility. These measures would ensure that loss, degradation, and disturbance of vegetation and habitat is minimized and restricted to designated work areas, and that native habitat values are improved and soils are stabilized in disturbance areas post-construction. Impacts would be mitigated to less than significant.

MM BIO-14 (Streambed and Watershed Protection) would require BMPs to protect stream channels, including desert dry wash woodlands. BMPs limit operation of vehicles and equipment in flowing or ponded water and construction in ephemeral drainages, and require containment and cleanup of fuels

and construction debris to prevent contamination and pollution of waterways. Impacts to jurisdictional features (see Impact BIO-5) would require coordination with CDFW and with RWQCB regarding permitting, which would include requirements to protect stream channels and desert dry wash woodlands.

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The Project has been designed to avoid desert dry wash woodland (except for minor incursions and where there is existing intervening infrastructure), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14) and desert pavement at a ratio of 1:1 (MM BIO-3) would preserve and offset loss of sensitive habitats.

Additionally, similar mitigation measures required to be implemented for the Oberon Project are included in its Final EIR (RWQCB, 2021) and Final EA (BLM, 2022). Conservation Management Actions (CMAs) would also be implemented on BLM lands per the DRECP, as described in the Final EA for the Oberon Project.

Mitigation of Project Impacts on BLM Land

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with these CMAs, which would be required on BLM lands, would mitigate impacts to less than significant, as described.

The following CMAs, previously detailed for Vegetation and Habitat in Impact BIO-1, would also reduce impacts to sensitive natural communities and riparian habitats for the same reasons as described above in the discussion of impacts to Vegetation and Habitat:

- LUPA-BIO-1 (Biological Resources).
- LUPA-BIO-2 (Biological Resources).
- LUPA-BIO-5 (Worker Education).
- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance).
- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- <u>LUPA-BIO-3 (Resource Setback Standards).</u>
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

Similar to the requirements of the MMs that would be implemented on private land within the Project site, these CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would preserve sensitive habitat in the Project area and prevent degradation from disturbance in adjacent areas. Compensation would offset loss of sensitive and riparian communities.

Mitigation Conclusion

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, il-mpacts to sensitive natural communities and riparian habitats would be mitigated to less than significant.

Operations and Maintenance and Decommissioning

Proposed O&M and decommissioning activities would have similar direct and indirect impacts on desert dry wash woodland, as described above. However, the scale of impacts would be less than construction impacts.

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During O&M, impacts would be limited to repairs and maintenance of solar panels, associated electrical components, O&M facilities, access roads, fencing, drainages, and culverts. Vegetation would be trimmed infrequently in discrete locations and no heavy equipment would be used for normal operation. Any ground disturbance may result in soil erosion. Herbicides used to manage weed infestations may degrade non-target vegetation in adjacent areas. Infrequent panel washing is not expected to impact habitat persistence or composition and no chemical agents would be used for module washing. If the Proposed Project facility elevates ambient temperature within the site, surrounding vegetation and habitat may be indirectly impacted.

Impacts during Project decommissioning would be similar to those during construction and would occur in previously disturbed areas. Decommissioning activities would require similar equipment and workforce as construction but would be substantially less intense, including removal of all equipment and cables, facilities, primary roads, and concrete pads. During decommissioning, habitat disturbance may result from disassembling and transporting facilities, or from site remediation. The Project would be dismantled as described in Section 2.6, per an agency-approved Closure and Decommissioning Plan, and a majority of components would be recycled or reused. Following decommissioning, the Proposed Project site would be revegetated with native plants and re-seeded as required by the Decommissioning Plan.

Direct and indirect impacts to riparian habitats and sensitive communities from O&M and decommissioning on private land within the Project site would be minimized and, avoided, or offset with measures such as biological monitoring by qualified biologists; worker training on sensitive biological resources; flagging, surveying, and monitoring of work areas; weed management; and restoration-re-vegetation of disturbed areas; and BMPs to protect stream channels, as previously described for MMs BIO-1 through BIO-5 and MM BIO-14. The Project has been designed to avoid desert dry wash woodland (except for minor incursions for linear features and where is existing intervening infrastructure on private land) and compensatory mitigation for desert dry wash woodland (MM BIO-14) and desert pavement (MM BIO-3) would preserve and offset loss of sensitive habitats. CMAs, as previously outlined for construction, would be implemented to reduce impacts on BLM land. These measures would restrict impacts to designated work areas and ensure that native habitat values are improved post-construction.

Mitigation Measures for Impact BIO-4

The full text of the following mitigation measures is in Section 3.5.93.5.7 (Mitigation Measures).

- MM BIO-1 Biological Monitoring.
- MM BIO-2 Worker Environmental Awareness Training.
- MM BIO-3 Minimization of Vegetation and Habitat Impacts.
- MM BIO-4 Integrated Weed Management Plan.
- MM BIO-5 Vegetation Resources Management Plan.

DRECP CMAs for Impact BIO-4

Applicable CMAs are detailed in Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA.

LUPA-BIO-1 (Biological Resources).

LUPA-BIO-2 (Biological Resources).

LUPA-BIO-5 (Worker Education).

LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance).

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LUPA-BIO-10 (Standard Practices for Weed Management).

LUPA-BIO-11 (Nuisance Animals and Invasive Species).

LUPA-BIO-13 (General Siting and Design).

LUPA-BIO-3 (Resource Setback Standards).

LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).

LUPA-BIO-SVF-6 (Special Vegetation Features).

LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

Significance After Mitigation

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, this impact would be less than significant. This impact would be less than significant with implementation of mitigation measures identified above

Impact BIO-5. The Project would have a substantial adverse effect on State or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.

LESS THAN SIGNIFICANT WITH MITIGATION. Two palustrine, emergent wetland areas in the Project area were identified as anthropogenic wetlands created by adjacent agricultural activities, from artificial water sources and berms. Jurisdictional waters are found along unvegetated ephemeral washes and desert dry wash woodlands (see Impact BIO-4) throughout the Project site and along the gen-tie line. Project construction and O&M would affect these wetlands and State-protected jurisdictional waters: no wetlands would be impacted (Table 3.5-3). Construction would involve minor changes to on-site topography. The proposed layout of solar panels would avoid major existing hydrologic patterns with respect to runoff, avoiding washes, stream beds, stream banks, where feasible. The Easley Project will fully comply with all applicable DRECP CMAs on BLM-administered land and private land, which includes avoidance of desert dry wash woodland habitat with a 200-foot buffer, except for minor incursions for linear features or where there is existing intervening infrastructure on private lands (CMA LUPA-BIO-RIPWET-1).

The aquatic resources in the Project site are subject to State jurisdiction under RWQCB and CDFW (see Section 3.5.1 on Jurisdictional Waters). Given the absence of a nexus to a federal waters of the U.S., the aquatic resources in the Project site <u>likely</u> are not subject to federal jurisdiction under CWA Section 404 and Section 401 (see Section 3.5.1).

With implementation of mitigation measures on private land within the Project site and implementation of CMAs on BLM land within the Project site, described below, impacts to jurisdictional waters would be less than significant. Construction would require a Stormwater Pollution Prevention Plan (SWPPP) approved by the State Water Resources Control Board, LSAA from CDFW, and WDR from RWQCB, which may include additional permit requirements and BMPs to further protect jurisdictional waters.

Solar and BESS Facility

Impacts Discussion

The two emergent wetland areas are located in the northern and central portions of the Project area. The Project site is intersected by numerous unvegetated ephemeral drainages that flow northeast toward Big

Wash, near the confluence with Pinto Wash. Desert dry wash woodland is interspersed with creosote bush scrub, which overlap with ephemeral jurisdictional drainages on the Project site. Active channels within the lower alluvial fan, where the Project is situated, showed signs of frequent avulsion (changes in flow direction following surface water flow events) due to patterns of brief, intense surface water flow, resulting in a network of active and inactive (abandoned) channels.

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Acres of impact to jurisdictional wetlands, waters, and desert dry wash woodland are shown in Table 3.5-3. Approximately 732-<u>728</u> acres of desert dry wash woodland would be avoided in the solar facility development area.

	Impact Acres (full project design, including 500k V gen-tie line across Oberon Project)						
Habitat Type	BLM	Private	Total				
Colorado River RWQCB Jurisdictional Waters							
Easley Project Boundary							
Wetlands							
Unvegetated Ephemeral Dry wash (OHWM width)	98.8<u>88.3</u>	19.8<u>16.2</u>	118.7<u>104.5</u>				
Desert Dry Wash Woodland	9.0<u>1.3</u>	0.2 0.1	9.2<u>1.5</u>				
Oberon Project Boundary							
Unvegetated Ephemeral Dry wash (OHWM width)	2.0<u>0.5</u>		<u>2.00.5</u>				
Desert Dry Wash Woodland	22.2 0.1		22.2 .01				
TOTAL	132.190.2 acres	20.116.4 acres	152.2 106.6				
		·	acres				
CDFW Jurisdictional Waters							
Easley Project Boundary							
Wetlands (Easley Boundary)							
Unvegetated Ephemeral Dry wash (Bank-to-Bank)	147.6<u>131.2</u>	26.4 23.6	174.0<u>154.7</u>				
Desert Dry Wash Woodland	9.0<u>1.9</u>	0.2 0.2	9.2 2.1				
Oberon Project Boundary							
Unvegetated Ephemeral Dry wash (Bank-to-Bank)	2.5 0.6		<u>2.5</u> 0.6				
Desert Dry Wash Woodland	22.2 0.2		<u>22.2</u> 0.2				
TOTAL	181.3 133.8	26.7 23.8	207.9 157.6				
Notes							

Table 3.5-3. Impacts to Jurisdictional Water
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No wetlands would be impacted.

Within the Oberon Project boundary, impact acres include the entire 175-foot-wide gen-tie line ROW. Final gen-tie line impact acreages will be less than shown in the table, as impacts would occur only at structures and spur roads. Disturbance assumptions at each structure location are included in EIR Section 2.4.6. Furthermore, structures would be micro-sited to minimize impacts to sensitive habitats and resources to the maximum extent feasible.

Jurisdictional waters on the Project site would be directly impacted by site preparation and Project construction. After construction, water and sediment on the Project site would be conveyed downslope, across the site, by sheet flow or within channels. However, surface flow patterns, velocities, and sediment loads may be altered throughout the site by solar panel foundations and piles, access roads, fencing, BESS, substation yards, O&M building, and other Project features.

Potential significant indirect impacts to jurisdictional waters from Project activities could include decoupling of flows due to installation of Project facilities or components, increased siltation, fluvial transport of

silts or pollutants, and altered flows resulting in erosion or elimination of natural sediment transport to downstream habitat areas. The decoupling of flows due to installed barriers was found to have a direct effect on the vegetation closest to the zone of decoupling (Devitt, 2022). Since the health of a desert ecosystem is linked to the integrity of surface drainage systems, maintaining wash connectivity would benefit down gradient plant communities. In a study performed by Devitt (2022), during high rainfall significant runoff and erosion undercut structural supports of the panel arrays, suggesting that maintaining wash connectivity would benefit the solar facility as well.

The Project may include diversions at security fencing and require detention basins, but no other substantial alteration to the existing surface hydrology would occur. Alteration of the existing drainage pattern should be minimal because of the minimal grading proposed. The Project plans to maintain natural drainage to the maximum extent feasible.

Additionally, the preservation of vegetation under the solar panels would mitigate impacts of erosion and increased runoff. Cook and McCuen (2013) studied water runoff of solar modules and found that runoff volumes increased with graveled or compacted ground underneath the panels. With well-maintained grass, solar modules did not have an effect on total volumes of runoff or peak discharge rates (Cook and McCuen, 2013).

Mitigation of Project Impacts on Private Land

Impacts to <u>wetlands and habitat on the Project site, including jurisdictional waters jurisdictional waters on</u> <u>private land in the Project site</u>, would be minimized with implementation of MMs BIO-1 through BIO-5, as previously described <u>or Vegetation and Habitat in Impact BIO-1</u>. <u>MMs BIO-1 to MM BIO-5 require use of</u> <u>qualified biologists for surveying and monitoring (MM BIO-1 Biological Monitoring), training of construction personnel on identifying and avoiding sensitive plant and wildlife resources (MM BIO-2 Worker <u>Environmental Awareness Training</u>), clear demarcation of vegetation for removal and low impact site preparation (MM BIO-3 Minimization of Vegetation and Habitat Impacts), managing herbicide use and non-natives in disturbance areas (MM BIO-4 Integrated Weed Management Plan), and revegetating with native habitat (MM BIO-5 Vegetation Resources Management Plan). These measures would ensure that loss, degradation, contamination, and disturbance of vegetation and habitat is minimized and restricted to designated work areas, and that native habitat values are improved and soils are stabilized in disturbance areas post-construction.</u>

In addition, MM BIO-12-14 (Streambed and Watershed Protection) would require Best Management Practices (BMPs) to protect stream channels and jurisdictional waters on the Project site, including desert dry wash woodlands. BMPs limit operation of vehicles and equipment in flowing or ponded water and construction in ephemeral drainages, and require containment and cleanup of fuels and construction debris to prevent contamination and pollution of waterways. Impacts to jurisdictional features would require coordination with CDFW regarding a Lake and Streambed Alteration Agreement (LSAA) and with RWQCB regarding Waste Discharge Requirements (WDR), which would have permit requirements to protect jurisdictional stream channels, wetlands, and waters, including desert dry wash woodlands. would require a series of BMPs to prevent or minimize significant effects to jurisdictional waters and streambed function. BMPs include measures that require cleanup of petroleum spills and buffers around equipment maintenance, spoil sites, and storage or use of hazardous materials. Equipment will not operate in ponding or flowing water, silt and pollutants will be prevented from entering ephemeral drainages, no equipment will be maintained within 150 feet of streambeds, and equipment will be placed over drip pans. These measures would prevent sedimentation, contamination, and pollution of jurisdictional waters from erosion of soils and use of hazardous fuels and herbicides. Maintaining natural drainage and vegetation under solar panels would further minimize impacts to jurisdictional waters from runoff and erosion.

Avoidance of desert dry wash woodland (except for minor incursions or where there is existing intervening infrastructure), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14) would preserve and offset loss of jurisdictional habitats.

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Mitigation of Project Impacts on BLM Land

The Project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with these CMAs, which would be required on BLM lands, would mitigate impacts to less than significant, as described.

The following CMAs, previously detailed for Vegetation and Habitat in Impact BIO-1, would also reduce impacts to jurisdictional waters, stream channels, and habitats for the same reasons as described above in the discussion of impacts to Vegetation and Habitat:

- <u>LUPA-BIO-1 (Biological Resources).</u>
- <u>LUPA-BIO-2 (Biological Resources).</u>
- LUPA-BIO-5 (Worker Education).
- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance).
- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

These CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would preserve jurisdictional stream channels in the Project area and prevent degradation from disturbance in adjacent areas. Compensation would offset loss of jurisdictional waters.

LUPA-BIO-9 (Water and Wetland Dependent Species Resources) requires that BMPs be implemented to prevent toxic and hazardous materials from entering streams and washes, such as proper maintenance and fueling of vehicles and equipment, and prompt clean-up of spills. The CMA requires erosion and sedimentation control, including maintaining natural drainages, reducing impervious surfaces, stabilizing disturbed areas, and performing regular inspections and maintenance of erosion control. The CMA also requires that means of escape be provided for wildlife from ponds or other Project related water infrastructure. By properly handling and containing hazardous fuels and managing erosion in work areas, contamination, pollution, and sedimentation of waters would be minimized and avoided. Protection of waters would reduce impacts to jurisdictional waters.

Mitigation Conclusion

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, impacts to jurisdictional waters would be mitigated to less than significant.

500 kV Gen-Tie, Collector, and Distribution Lines

Impacts Discussion

The proposed gen-tie line crosses through the existing Oberon Renewable Energy Project site (RWQCB, 2021; BLM, 2022), on BLM lands. The gen-tie line primarily crosses the adjacent Oberon Project site. The gen-tie line is intersected by numerous unvegetated ephemeral drainages that flow northeast toward Big Wash. Desert dry wash woodland is interspersed with creosote bush scrub and desert pavement, which overlap with these ephemeral jurisdictional drainages on the Project site. Construction and O&M of the Project's gen-tie line component would not impact jurisdictional waters on private lands (Table 3.5-3). On BLM-lands, less than 1 acre of jurisdictional waters would be impacted by the gen-tie line component (Table 3.5-3).

Impacts to jurisdictional waters would be similar to those described for the solar facility; however, aboveground gen-tie construction would have impacts at discrete disturbance sites where towers or other work activities would be located. If the 34.5 kV or 12 kV lines are installed overhead, similar types of impacts would occur at the pole sites located outside of the solar facility fence line. Underground collector lines would require trenching and disturbance of habitats as described in Impact BIO-1. Impacts on the Oberon Project site were evaluated as part of the Final EIR and Final EA (RWQCB, 2021; BLM, 2022).

Construction and O&M of the Project's gen-tie line component would not impact jurisdictional wetlands.

Mitigation of Project Impacts on Private Land

MMs BIO-1 through BIO-5 would minimize impacts to native habitat <u>on private land in the Project site</u>, including ephemeral washes, as discussed for the solar<u>and BESS</u> facility. <u>These measures would ensure</u> that loss, degradation, and disturbance of vegetation and habitat is minimized and restricted to designated work areas, and that native habitat values are improved and soils are stabilized in disturbance areas post-construction.

MM BIO-124 (Streambed and Watershed Protection) would-requires a series of BMPs to protect water resources and prevent sedimentation, contamination, and pollution of or minimize significant effects to jurisdictional waters and streambed function. Impacts to jurisdictional features would require coordination with CDFW regarding a Lake and Streambed Alteration Agreement (LSAA) and with RWQCB regarding Waste Discharge Requirements (WDR), which would have permit requirements to protect jurisdictional stream channels, wetlands, and waters. Additionally, similar mitigation measures required to be implemented for the Oberon Project are included in its Final EIR (RWQCB, 2021) and Final EA (BLM, 2022). Conservation Management Actions (CMAs) would also be implemented on BLM lands per the DRECP, as described in the Final EA for the Oberon Project.

Avoidance of desert dry wash woodland (except for minor incursions and where there is existing intervening infrastructure), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14) would preserve and offset loss of jurisdictional habitats.

Mitigation of Project Impacts on BLM Land

The Project is required to comply with DRECP CMAs for all Project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with these CMAs, which would be required on BLM lands, would mitigate impacts to less than significant, as described.

The following CMAs, previously detailed for Vegetation and Habitat in Impact BIO-1, would also reduce impacts to jurisdictional waters, stream channels, and habitats for the same reasons as described above in the discussion of impacts to Vegetation and Habitat:

<u>LUPA-BIO-1 (Biological Resources).</u>

- <u>LUPA-BIO-2 (Biological Resources).</u>
- LUPA-BIO-5 (Worker Education).
- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance).

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- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

Similar to the requirements of the MMs that would be implemented on private land within the Project site, these CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would preserve jurisdictional stream channels in the Project area and prevent degradation from disturbance in adjacent areas. Compensation would offset loss of jurisdictional waters.

<u>LUPA-BIO-9 (Water and Wetland Dependent Species Resources), as previously described, requires imple-</u> mentation of BMPs related to toxic and hazardous materials and erosion and sedimentation into waterways. By properly handling and containing hazardous fuels and managing erosion in work areas, contamination, pollution, and sedimentation of waters would be minimized and avoided. Protection of waters would reduce impacts to jurisdictional waters.

Mitigation Conclusion

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, il-mpacts to jurisdictional waters would be mitigated to less than significant.

Operations and Maintenance and Decommissioning

Proposed O&M and decommissioning activities would have similar direct and indirect impacts on jurisdictional waters, as described above. However, the scale of impacts would be less than construction impacts and impacts would occur in previously disturbed areas. No jurisdictional wetlands would be impacted <u>during O&M</u>.

After construction, surface flow patterns, velocities, and sediment loads may be altered throughout the site by solar panel foundations and piles, access roads, fencing, BESS, substation yards, O&M building, and other Project features. Alteration of the existing drainage pattern is expected to be minimal because of the minimal grading and diversions required, and the Project plans to maintain natural drainage to the maximum extent feasible. The preservation of vegetation under the solar panels would further mitigate impacts of erosion and increased runoff.

During O&M, impacts would be limited to repairs and maintenance of solar panels, associated electrical components, O&M facilities, access roads, fencing, drainages, and culverts. Vegetation would be trimmed infrequently in discrete locations and no heavy equipment would be used for normal operation. Any ground disturbance may result in soil erosion that could runoff into jurisdictional waters. Herbicides used to manage weed infestations may degrade jurisdictional waters or associated vegetation on the Project site. Infrequent panel washing is not expected to impact persistence or composition of jurisdictional waters and no chemical washing agents would be used that may degrade waters.

Impacts during Project decommissioning would be similar to those during construction and would occur in previously disturbed areas. Decommissioning activities would require similar equipment and workforce as construction but would be substantially less intense, including removal of all equipment and cables, facilities, primary roads, and concrete pads. During decommissioning, disturbance to jurisdictional waters may result from disassembling and transporting facilities, or from site remediation. The Project would be dismantled as described in Section 2.6, per an agency-approved Closure and Decommissioning Plan, and a majority of components would be recycled or reused. Following decommissioning, the Proposed Project site would be revegetated with native plants and re-seeded as required by the Decommissioning Plan.

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Direct and indirect impacts to jurisdictional waters from O&M and decommissioning on private lands within the Project site would be minimized and, avoided, or offset with measures such as biological monitoring by qualified biologists; worker training on sensitive biological resources; flagging, surveying, and monitoring of work areas; weed management; restoration-re-vegetation of disturbed areas; and implementation of BMPs to protect jurisdictional stream channels from contamination and pollution with fuels, herbicides, and sedimentation protection of jurisdictional waters, as previously described for MMs BIO-1 through BIO-5 -and MM BIO-1214. Avoidance of desert dry wash woodland (except for minor incursions for linear feature and where there is existing intervening infrastructure on private land) and compensatory mitigation for desert dry wash woodland (MM BIO-14) would preserve and offset loss of jurisdictional habitats. CMAs, as previously outlined for construction, would be implemented on BLM land in the Project site to reduce impacts. As described in more detail above, tThese measures would restrict impacts to designated work areas, ensure that native habitat values are improved post-construction, and protect jurisdictional waters from sedimentation, contamination, and pollution.

Mitigation Measures for Impact BIO-5

The full text of the following mitigation measures is in Section 3.5.93.5.7 (Mitigation Measures).

- MM BIO-1 Biological Monitoring.
- MM BIO-2 Worker Environmental Awareness Training.
- MM BIO-3 Minimization of Vegetation and Habitat Impacts.
- MM BIO-4 Integrated Weed Management Plan.
- MM BIO-5 Vegetation Resources Management Plan.
- MM BIO-<u>1214</u> Streambed and Watershed Protection.

DRECP CMAs for Impact BIO-5

Applicable CMAs are detailed in Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA.

LUPA-BIO-1 (Biological Resources).

LUPA-BIO-2 (Biological Resources).

LUPA-BIO-5 (Worker Education).

<u>LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term</u> <u>Disturbance).</u>

LUPA-BIO-10 (Standard Practices for Weed Management).

LUPA-BIO-11 (Nuisance Animals and Invasive Species).

LUPA-BIO-13 (General Siting and Design).

LUPA-BIO-3 (Resource Setback Standards).

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LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).

LUPA-BIO-SVF-6 (Special Vegetation Features).

LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

LUPA-BIO-9 (Water and Wetland Dependent Species Resources)

Significance After Mitigation

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, this impact would be less than significant. This impact would be less than significant with implementation of mitigation measures and permitting identified above.

Impact BIO-6. The Project would conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.

Less THAN SIGNIFICANT WITH MITIGATION. Construction, operations and maintenance, and decommissioning of the Project would be subject to policies in the Riverside County General Plan. Table 3.5-4, Consistency with Local Policies and Ordinances describes how the Project would be consistent with the County General Plan. Plan.

Policy/Regulations/ Goals	- Description	Consistency Analysis
Riverside Cou	nty General Plan Land Use Element (LU)	
LU 9.1	Provide for permanent preservation of open space lands that contain important natural resources, cultural resources, hazards, water fea- tures, watercourses including arroyos and can- yons, and scenic and recreational values (AI 102).	Consistent. Mitigation measures provide pro- tection of species, habitats, and waters in coor- dination with CDFW, USFWS, and RWQCB <u>on</u> private land in the Project site, as described throughout this section 3.5. Mitigation for spe- cies, habitats, and waters on BLM lands would be implemented in accordance with the DRECP CMAs as described throughout this section 3.5.
LU 9.2	Require that development protect environmen- tal resources by compliance with the Multipur- pose Open Space Element of the General Plan and federal and state regulations such as CEQA, NEPA, the Clean Air Act, and the Clean Water Act.	Consistent. The Project would comply with federal and state regulations.
LU 24.1	Cooperate with the CDFW, USFWS, and any other appropriate agencies in establishing pro- grams for the voluntary protection, and where feasible, voluntary restoration of significant envi- ronmental habitats (AI 10).	Consistent. Mitigation measures provide pro- tection of species and restoration of habitats <u>on</u> <u>private land in the Project site, as described</u> <u>throughout this section 3.5, in coordination</u> with CDFW, USFWS, and RWQCB. <u>Mitigation</u> <u>providing protection of species and restoration</u> <u>of habitats on BLM lands would be imple-</u> <u>mented in accordance with the DRECP CMAs as</u> <u>described throughout this section 3.5.</u>
Riverside Cou	nty General Plan Multi-Purpose Open Space Eleme	nt (OS)
OS 18.1	Preserve multi-species habitat resources in the County of Riverside through the enforcement of the provisions of applicable MSHCPs and through implementing related Riverside County policies.	Consistent. The Project site is not within an MSHCP area.

Table 3.5-4. Consistency with Local Policies and Ordinances

Policy/Regula tions/ Goals	- Description	Consistency Analysis						
Desert Center Area Plan (DCAP)								
DCAP 9.1	Encourage clustering of development for the preservation of contiguous open space.	Consistent. The Project site is located adjacent to other solar projects within a DRECP designated DFA.						
	Require new development to conform with Desert Tortoise Critical Habitat designation require- ments.	Consistent. The solar facilities on the Easley Project site do not overlap with critical habitat for desert tortoise. Critical habitat within the Chuckwalla Desert Tortoise CHU, which is en- compassed under Tortoise Conservation Areas (TCAs), is located near the Project site across Kaiser Road to the west.						
		The gen-tie line would cross desert tortoise critical habitat in the southeastern portion of the adjacent Oberon Project site. Mitigation measures provide for restoration of habitats in coordination with CDFW, USFWS, and RWQCB.						

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Riverside County General Plan. The solar and BESS facilities, gen-tie line, and associated components would potentially impact biological resources protected by the General Plan provisions, including special-status plants and animals, sensitive habitats, and jurisdictional waters, as previously described. Without mitigation, the Project could result in significant impacts to these biological resources; however, implementation of MMs BIO-1 through MM BIO-1214 on private land within the Project site, as previously described, would ensure consistency with the local policies listed above.

Impacts to native habitat would be mitigated in accordance with regulatory permits from the CDFW and RWQCB. Impacts to desert dry wash woodland would be avoided on private lands, as on BLM lands in accordance with the DREPC CMAs. Mitigation for habitat impacts on BLM lands would be implemented in accordance with the DRECP <u>CMAs as described throughout this section 3.5</u> and mitigation measures in the final NEPA document.

The Project would be in compliance with the Riverside County General Plan.

Desert Center Area Plan. The Project would not conflict policies protecting biological resources in the Desert Center Area Plan, including open space and critical habitat. Without mitigation, the Project could result in significant impacts to biological resources; however, implementation of MMs BIO-1 through MM BIO-1214 on private land within the Project site, as previously described, would minimize impacts and ensure consistency with the Plan. Impacts to native habitat and USFWS designated critical habitat would be mitigated in accordance with regulatory permits from the USFWS, CDFW, and RWQCB. Mitigation for habitat impacts on BLM lands would be implemented in accordance with the DRECP <u>CMAs</u>, as described throughout this section 3.5 and mitigation measures in the final NEPA document.

The Project would be in compliance with the Desert Center Area Plan.

Desert Renewable Energy Conservation Project (DRECP). The solar and BESS facility would be largely located on federally administered land and would be subject to federal policies, regulations, and goals. Some BLM-administered lands in Southern California are designated in the DRECP Land Use Plan Amendment (LUPA) as Development Focus Areas (DFA). The purpose of the DRECP is to conserve and manage plant and wildlife communities in the desert regions of California, over 10 million acres of BLM land, while facilitating the timely permitting of compatible renewable energy projects (BLM, 2015). The DRECP LUPA identifies the Project area as within a Development Focus Area (DFA), where renewable energy generation is an allowable use, incentivized, and could be streamlined under the DRECP LUPA.

The DRECP LUPA includes Conservation and Management Actions (CMAs) designed to reduce the effects of development on sensitive resources and highlight other types of mitigation that might be required to further reduce impacts. The Project would comply with <u>all_applicable_DRECP_CMAs_(Appendix_CC)</u> as described throughout this Section 3.5. The Project is an allowable use on DRECP DFA lands.

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The Project would be in compliance with the BLM management actions of the DRECP LUPA.

Mitigation Measures for Impact BIO-6

The full text of the following mitigation measures is in Section 3.5.93.5.7 (Mitigation Measures).

- MM BIO-1 Biological Monitoring
- MM BIO-2 Worker Environmental Awareness Training
- MM BIO-3 Minimization of Vegetation and Habitat Impacts
- MM BIO-4 Integrated Weed Management Plan
- MM BIO-5 Vegetation Resources Management Plan
- MM BIO-6 Wildlife Protection
- MM BIO-7 Desert Tortoise Protection
- MM BIO-8 Bird and Bat Conservation Strategy
- MM BIO-9 Nesting Bird Management Plan
- MM BIO-109 Gen-tie Lines
- MM BIO-110 Burrowing Owl Avoidance and Relocation
- MM BIO-121 Desert Kit Fox and American Badger Relocation
- MM BIO-13 Wildlife Protection and Relocation Plan
- MM BIO-142 Streambed and Watershed Protection

DRECP CMAs for Impact BIO-6

Applicable CMAs are detailed in Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA.

LUPA-BIO-1 (Biological Resources)

LUPA-BIO-2 (Biological Resources)

LUPA-BIO-5 (Worker Education)

<u>LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term</u> <u>Disturbance</u>)

LUPA-BIO-10 (Standard Practices for Weed Management)

LUPA-BIO-11 (Nuisance Animals and Invasive Species)

LUPA-BIO-13 (General Siting and Design)

LUPA-BIO-SVF-1 (Special Vegetation Features)

LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management)

LUPA-BIO-3 (Resource Setback Standards).

LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species)

LUPA-BIO-SVF-6 (Special Vegetation Features)

LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation)

LUPA-BIO-PLANT-1 (Plant Species (PLANT): Plant Focus and BLM Special Status Species CMAs)

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LUPA-BIO-4 (Seasonal Restrictions)

LUPA-BIO-6 (Subsidized Predators Standards)

LUPA-BIO-12 (Noise)

LUPA-BIO-14 (Biology: General Standard Practices)

LUPA-BIO-15 (Biology: General Standard Practices)

DFA-BIO-IFS-1 to -3 (Biological Resources)

LUPA-BIO-9 (Water and Wetland Dependent Species Resources)

LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs)

LUPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species)

LUPA-BIO-BAT-1 (Bat Species (BAT))

LUPA-BIO-COMP-2 (Compensation (Birds and Bats))

LUPA-BIO-IFS-11 (Bendire's Thrasher)

LUPA-BIO-IFS-12 to -14 (Burrowing Owl)

LUPA-BIO-IFS-25 (Golden Eagle)

LUPA-TRANS-BIO-1, -2, and -4 (Biological Resources)

LUPA-BIO-IFS-1 to -9 (Individual Focus Species (IFS): Desert Tortoise)

DFA-VPL-BIO-IFS-1 (Individual Focus Species (IFS): Desert Tortoise)

Significance After Mitigation

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, this impact would be less than significant. This impact would be less than significant with implementation of mitigation identified above.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.5.6. Cumulative Impacts

Geographic Scope

The geographic extent for this cumulative analysis includes activities and projects in the desert portion of Riverside County (Palm Springs to the Colorado River) because it consists of similar habitat areas and encompasses the home ranges of species such as those that would be directly or indirectly affected by the proposed Project (Figure 2-4).

Cumulative effects for biological resources include both plant and wildlife species and must consider distribution, habitat availability, designated critical habitat, local rarity or commonness, and likely responses to projects' effects for each species. From a timing perspective, the Project could contribute to cumulative effects to biological resources starting with the initiation of on-site activities and continuing throughout the O&M phase, through final decommissioning. As the number of solar projects and other development and land use changes increase in the region, the cumulative impacts to biological resources, such as habitat loss also increase. This analysis considers the current and foreseeable future projects identified in the cumulative scenario, listed in Tables 3.1-1 (Past or Present Projects or Programs in the Project Area) and 3.1-2 (Probable Future Projects in the Project Area).

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This analysis presumes that MMs BIO-1 through BIO-12214, identified in Section 3.5.93.5.7, would be implemented on private land within the Project site and, that the Project would comply with implement DRECP CMAs on BLM lands. Cumulative impacts of the projects on biological resources identified in the cumulative scenario, as described below by resource type, would be cumulatively significant. With avoid-ance through Project design_and-mitigation measures, and CMAs, compliance with the DRECP CMAs, and off-site_compensation, the Project's contribution to cumulative impacts would not be_cumulatively considerable.

On BLM-administered lands, the DRECP identifies the federal lands in and around the Project site as a DFA, where renewable energy development should be concentrated. DFAs were designated by the BLM, in coordination with the USFWS, the CEC, and CDFW. Cumulative impacts were considered in the DRECP LUPA Final Environmental Impact Statement (FEIS) (BLM, 2015).

Cumulative Impact Analysis

Vegetation and habitat. Construction-related impacts of the cumulative projects would temporarily increase noise and activities, dust, and other habitat disturbances throughout the region. On completion of construction, longer-term land use conversion would contribute to reduced habitat availability and increased habitat fragmentation. Installation of multiple solar projects concentrated in one area could also increase local ambient air temperatures in and around the solar facilities, impacting persistence of vegetation and suitability of habitat. In the context of the number of past, present, and future projects many of which are large solar projects, the effects of the proposed Project would contribute incrementally to the cumulative significant impacts to vegetation and habitat. Direct and indirect impacts to vegetation and habitat on private land in the Project site would be minimized by implementing MMs BIO-1 through BIO-5, which minimize direct disturbance, loss, degradation, and contamination of habitat by using gualified and trained staff, keeping work activities within designated work areas, and implementing revegetation and invasives management.

Avoidance of desert dry wash woodland (except for minor incursions for linear features and where there is existing intervening infrastructure on private land), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would preserve habitat values for wildlife and offset habitat loss consistent with CMAs LUPA-BIO-RIPWET-1 and LUPA-BIO-COMP-1.

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with the following CMAs, which would be required on BLM lands and are described in detail in Impact BIO-1, would mitigate impacts to less than significant.

- LUPA-BIO-1 (Biological Resources).
- <u>LUPA-BIO-2 (Biological Resources).</u>
- LUPA-BIO-5 (Worker Education).
- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance).
- LUPA-BIO-10 (Standard Practices for Weed Management).

- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- LUPA-BIO-SVF-1 (Special Vegetation Features).
- LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management).

The following CMAs describe protection for desert dry wash woodland. The Project design would avoid desert dry wash woodland with a 200-foot setback buffer, except for minor incursions, consistent with the CMAs (Section 2.7.3).

- <u>LUPA-BIO-3 (Resource Setback Standards).</u>
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

Similar to the requirements of the MMs that would be implemented on private land within the Project site, CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would prevent direct removal of vegetation and habitat and prevent degradation from disturbance in adjacent areas. Compensation for impacts to native habitats would offset loss.

With implementation of the mitigation measures on private lands and CMAs on BLM land, the proposed Project's contribution to cumulative impacts to vegetation and habitat would not be cumulatively considerable. Impacts to native habitat would be mitigated in accordance with regulatory permits from the CDFW and RWQCB. Impacts to desert dry wash woodland would be avoided on private lands, as on BLM lands in accordance with the DREPC CMAs. Mitigation for habitat impacts on BLM lands would be implemented in accordance with the DRECP and mitigation measures in the final NEPA document.

Sensitive Habitat and Jurisdictional Waters of the State. Some of the cumulative projects would impact desert dry wash woodland with minor incursions and desert pavement; however,. <u>T</u>the proposed Project would was designed to avoid desert dry wash woodland, except for minor incursions (Section 2.7.3). -50 it would not contribute to cumulative effects. Indirect effects from the Easley Project in adjacent habitats would be minimized with a <u>200-foot setback</u> buffer (except for minor incursion or where there is existing intervening infrastructure on private land) from desert dry wash woodland habitat on both private and public lands.

The Project would impact unvegetated ephemeral dry wash, which meets criteria as jurisdictional waters of the State. The cumulative projects would have qualitatively similar impacts to unvegetated ephemeral dry wash, due to the nature of the area and the large washes that cross it, resulting in a significant cumulative impact. The effects of the proposed Project would contribute incrementally to the cumulative impacts to jurisdictional waters of the State. This incremental contribution would not be considerable as the Project has been designed to avoid, minimize, and offset impacts to jurisdictional waters. Direct and indirect impacts during construction would be minimized by implementing MMs BIO-1 through BIO-5 and MM BIO-1214.

MMs BIO-1 to MM BIO-5 require use of qualified biologists for surveying and monitoring (MM BIO-1 Biological Monitoring), training of construction personnel on identifying and avoiding sensitive plant and wildlife resources (MM BIO-2 Worker Environmental Awareness Training), clear demarcation of vegetation for removal and low impact site preparation (MM BIO-3 Minimization of Vegetation and Habitat Impacts), managing herbicide use and the introduction and spread of non-natives in disturbance areas (MM BIO-4 Integrated Weed Management Plan), and revegetating with native habitat (MM BIO-5 Vegetation Resources Management Plan). These measures would minimize direct disturbance, loss, degradation, and contamination of nesting, sheltering, and foraging habitat for threatened and endangered wildlife by keeping work activities within designated work areas. By implementing seeding and revegetation, soil decompaction, erosion control, and non-native control in disturbance areas, as directed in the IWMP and VRMP, soils would be stabilized, native vegetation would be re-established, and post-construction habitat values would be improved in the Project area. Management of herbicides in accordance with established protocols will prevent wildlife encounters with treated vegetation.

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Per MM BIO-3, erosion control shall be implemented as described in the Drainage Erosion and Sedimentation Control Plan (DESCP) (MM HWQ-1), which requires identification of erosion treatments for exposed soil, such as chemical-based dust pallatives, soil bonding, and weighting agents suitable for use around vegetation. MM BIO-3 further requires compensation for impacts to desert pavement at a minimum ratio of 1:1. Additional BMPs to minimize erosion, as committed to by the Applicant and incorporated into the Project Description, are described in Section 2.7 and include designation of primary travel routes, limiting grading to specific areas, building racking material in laydown areas to minimize use of roads, using equipment with smaller rubber-wheeled vehicles, maintaining hydrologic flow patterns, and preserving propagule islands to support vegetation recovery.

In MM BIO-14 (Streambed and Watershed Protection) a series of BMPs would prevent or minimize significant effects to jurisdictional waters and streambed function, including measures that require cleanup of petroleum spills and buffers around equipment maintenance, spoil sites, and storage or use of hazardous materials. Equipment will not operate in ponding or flowing water, silt and pollutants will be prevented from entering ephemeral drainages, no equipment will be maintained within 150 feet of streambeds, and equipment will be placed over drip pans. These measures would prevent sedimentation, contamination, and pollution of jurisdictional waters from erosion of soils and use of hazardous fuels and herbicides. Maintaining natural drainage and vegetation under solar panels would further minimize impacts to jurisdictional waters from runoff and erosion. MM BIO-14 further requires compensation for impacts to desert dry wash woodland at a ratio of 5:1.

The Project is required to comply with DRECP CMAs for all Project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with the following CMAs, which would be required on BLM lands, as described in Impact BIO-1 and Impact BIO-5, would mitigate impacts to less than significant.

- LUPA-BIO-1 (Biological Resources).
- <u>LUPA-BIO-2 (Biological Resources).</u>
- LUPA-BIO-5 (Worker Education).
- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance).
- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- LUPA-BIO-SVF-1 (Special Vegetation Features).
- LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management).

The following CMAs describe protection for desert dry wash woodland. The Project design would avoid desert dry wash woodland with a 200-foot setback buffer, except for minor incursions, consistent with the CMAs (Section 2.7.3).

- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).

- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation). The following CMA requires additional protection for jurisdictional waters.
- LUPA-BIO-9 (Water and Wetland Dependent Species Resources).

Similar to the requirements of the MMs that would be implemented on private land within the Project site, CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would prevent direct removal of sensitive habitat and jurisdictional features, and prevent degradation of habitat and waters in adjacent areas. CMA requirements for compensation for impacts to native habitats, including sensitive habitats and jurisdictional waters, would offset loss. BMPs for fueling, vehicle and equipment maintenance, spill cleanup, erosion control, and stabilizing disturbed areas would prevent sediment and toxic and hazardous materials from entering and degrading streams and washes and sensitive habitats.

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With implementation of the mitigation measures on private lands and CMAs on BLM land, the proposed Project's contribution to cumulative impacts to sensitive habitats and jurisdictional waters would not be cumulatively considerable. Implementation of MMs, CMAs on BLM lands, and permitting requirements would reduce the impacts so that residual effects would be minimal.

Special-status plants. The proposed Project could affect special-status plants, identified in Impact BIO-1. No threatened or endangered plants were identified on the site. Several widespread special-status plants could be affected. The past, present, and future Projects would have similar impacts to special-status plants that occur in similar habitat types, resulting in in a cumulatively significant impact to regional special-status plants. The contribution of the Project would not be considerable because of the limited number of special-status plants on site, and -and-the implementation of mitigation measures <u>on private lands and DRECP CMAs on BLM lands</u>. Mitigation measures identified under Impact BIO-1 would avoid and minimize the impacts so that residual effects would be minimal.

Direct and indirect impacts to special-status plants on private land in the Project site would be minimized by implementing MMs BIO-1 through BIO-5, which minimize direct disturbance, loss, degradation, and contamination of habitat by using qualified and trained staff, keeping work activities within designated work areas, and implementing re-vegetation and invasives management. By implementing seed and plant salvage, seeding and revegetation, soil decompaction, erosion control, and non-native control in disturbance areas, soils would be stabilized, native vegetation would be re-established, and post-construction habitat values would be improved in the Project area to support recovery of special-status plants.

The Project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations in any ROW Grant issued for the Project. Compliance with the following CMAs, which would be required on BLM lands and are described in detail in Impact BIO-1, would mitigate impacts to less than significant.

- LUPA-BIO-1 (Biological Resources).
- LUPA-BIO-2 (Biological Resources).
- LUPA-BIO-5 (Worker Education).
- <u>LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term</u> <u>Disturbance).</u>
- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).

- LUPA-BIO-SVF-1 (Special Vegetation Features).
- LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management).
- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

These CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values and recovery of special-status plants. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would preserve habitat in the Project area and prevent degradation from disturbance in adjacent areas. Compensation for native habitat would offset habitat loss.

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The following CMA would be implemented to minimize impacts to special-status plants:

LUPA-BIO-PLANT-1 (Plant Species (PLANT): Plant Focus and BLM Special Status Species CMAs).

By identifying individual special-status plants in the Project area, they could be avoided or salvaged for post-construction re-vegetation, promoting recovery of habitat values.

With implementation of the mitigation measures on private lands and CMAs on BLM-administered land, the proposed Project's contribution to cumulative impacts to special-status plants would not be cumulatively considerable.

Special-status wildlife. Cumulative projects could result in direct impacts to special-status wildlife including injury or mortality resulting from crushing; displacement; loss of suitable habitat, burrows, dens, or nests; attraction of predators to food and water subsidies; encounters with work site hazards such as store materials, trenches, pits, or water tanks; vehicle strikes; and collision or electrocution from Project components. Noise and lighting could affect wildlife in adjacent habitats by disrupting foraging, breeding, sheltering, and other activities; or may cause wildlife to avoid otherwise suitable habitat surrounding the site. Habitat degradation would result in loss of suitable habitat for wildlife species. Herbicides that persist on site could injure wildlife that ingest target plants or come into contact with herbicides (e.g., by digging or rolling in treated soil).

Direct and indirect impacts to special-status wildlife on private land in the Project site would be minimized by implementing MMs BIO-1 through BIO-5, which minimize direct disturbance, loss, degradation, and contamination of habitat by using qualified and trained staff, keeping work activities within designated work areas, and implementing re-vegetation and invasives management. By implementing seed and plant salvage, seeding and revegetation, soil decompaction, erosion control, and non-native control in disturbance areas, soils would be stabilized, native vegetation would be re-established, and post-construction habitat values would be improved in the Project area to support recovery of special-status wildlife. MM BIO-6 would increase detection of wildlife that require avoidance in Project areas by requiring site inspections and managing hazards. Managing food and water subsidies would prevent attraction of predators to the Project site where there is increased likelihood of disturbance.

The Project has been designed to avoid desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1, which would preserve habitat values for special-status wildlife and offset habitat loss.

The Project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations in any ROW Grant issued for the Project. Compliance with the following CMAs, which would be required on BLM lands, as described in Impacts BIO-1 and BIO-2, would mitigate impacts to less than significant.

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- <u>LUPA-BIO-1 (Biological Resources).</u>
- LUPA-BIO-2 (Biological Resources).
- LUPA-BIO-5 (Worker Education).
- <u>LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term</u> <u>Disturbance).</u>
- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- <u>LUPA-BIO-3 (Resource Setback Standards).</u>
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

Similar to the requirements of the MMs that would be implemented on private land within the Project site, these CMAs reduce impacts to wildlife and habitat by requiring qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values for wildlife. Avoidance of desert dry wash woodland with a 200-foot setback buffer would prevent direct removal of sensitive habitat used by many wildlife species for foraging, shelter, breeding, and movement through the Project vicinity. A 200-foot setback would reduce degradation from disturbance in adjacent areas.

In addition to CMAs that protect wildlife habitat, the following CMAs would be implemented to minimize impacts to special-status wildlife that may be present:

- <u>LUPA-BIO-4 (Seasonal Restrictions).</u>
- LUPA-BIO-6 (Subsidized Predators Standards).
- LUPA-BIO-12 (Noise).
- LUPA-BIO-14 (Biology: General Standard Practices).
- LUPA-BIO-15 (Biology: General Standard Practices).
- DFA-BIO-IFS-1 to -3 (Biological Resources).

These CMAs reduce disturbance, injury, and mortality of wildlife species, by surveying and buffering for individuals, limiting work during species active seasons, and managing work site hazards and sources of disturbance.

With implementation of the mitigation measures on private lands and CMAs on BLM land, the proposed Project's contribution to cumulative impacts to special-status wildlife would not be cumulatively considerable.

In addition to the MMs and CMAs described for special-status wildlife, species-specific measures are presented below.

Crotch bumble bee. Suitable habitat for Crotch bumble bee is present on the Project site; however, the Easley site is east of the current range. The easternmost portion of the gen-tie line on the Oberon Project site overlaps with the historic range. Cumulative projects would impact similar desert scrub habitat, which may have potentially suitable habitat near the historic range. In addition to MMs BIO-1 to BIO-5 previously listed for Vegetation and Habitat, MM BIO-6 (Wildlife Protection) includes specific measures to protect

<u>Crotch bumble bee including worker training on identifying individuals, and adaptive management in</u> <u>coordination with CDFW if individuals or nests are detected during pre-construction surveys. Any nests</u> <u>detected would be buffered by the Lead Biologist and avoided until coordination with CDFW is completed.</u> <u>These measures would identify potential instances of Crotch bumble bee in the Project area and protect</u> <u>individuals from disturbance.</u>

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No additional species-specific CMAs are applicable to Crotch bumble bee beyond those previously described for all special-status wildlife species.

With implementation of the mitigation measures on private lands and CMAs on BLM land, the proposed Project's contribution to cumulative impacts to Crotch bumble bee would not be cumulatively considerable.

Monarch butterfly. Suitable foraging and breeding habitat for monarch butterfly is present on the Project site; no overwintering habitat is present. Cumulative projects would impact similar desert scrub habitat, which may provide potentially suitable habitat for monarchs. However, the site is not known to serve a significant role in breeding or migration for the species, and the surrounding Chuckwalla Valley provides vast stretches of desert land with similar or higher quality habitat the species may use. As a result, impacts to the species are not expected to be significant. MMs BIO-1 to BIO-5, previously listed for Vegetation and Habitat, would minimize impacts to suitable habitat and would re-vegetate disturbance areas with seed from the Project site, including monarch host plants.

MM BIO-6 (Wildlife Protection) includes specific measures to protect wildlife from work site hazards.

With implementation of the mitigation measures on private lands and CMAs on BLM land, the already less-than-significant cumulative impacts to the species would be further reduced, and the proposed Project's contribution to cumulative impacts to monarch butterfly would not be cumulatively considerable.

Desert tortoise. Suitable habitat is present throughout the southwestern portion of the Project area. The gen-tie line crosses through the adjacent Oberon Project site, which overlaps with a fragmented portion of USFWS-designated critical habitat. Desert tortoise sign (Class 4, Class 5 carcasses) were observed in and around desert dry wash woodland on the Project site. Most of the past, present, and foreseeable future projects in the vicinity would impact similar desert tortoise habitat and many of them could directly affect desert tortoises, as shown in Table 3.5-5 (Desert Tortoise Sign Key) and Table 3.5-6 (Desert Tortoise [DETO] Sign at Desert Center Solar Projects).

Table 3.5-5.Desert Tortoise Sign Key

Sign Type	Class 1	Class 2	Class 3	Class 4	Class 5
Burrow, pallet	currently active, with desert tortoise or recent desert tortoise sign	good condition, definitely desert tortoise; no evidence of recent use	deteriorated condition which includes collapsed burrows; definitely desert tortoise	good condition; possibly desert tortoise	deteriorated condition which includes collapsed burrows; possibly desert tortoise
Scat	wet (not from rain or dew) or freshly dried, obvious odor	dried, with glaze, some odor, dark brown	dried, no glaze or odor, signs of bleaching (light brown), tightly packed material	dried, light brown to pale yellow, loose material, scaly appearance	bleached, or consisting only of plant fiber
Carcasses, shell remains, and bone fragments	< 1 year, fresh putrid, scutes mostly adhered, sheen on exposed scutes, unexposed bone waxy and solid	1-2 years, scutes mostly adhered to bone, exposed scutes pale without sheen, unexposed bone silky	2-3 years, scutes peeling off bone, unexposed scutes pale and without sheen, no growth ring peeling	4 years, shell bone falling apart, growth rings on scutes peeling; bone fissured	> 4 years, disarticulated and scattered

Source. Easley Biological Resources Technical Report; Ironwood, 2023

Table 3.5-6.	Desert Tortoise (DETO) Sign at Desert Center Solar Projects
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	Easley ¹ (2021/2022)		Oberon ² (2018/2019/2020)					Desert		TOTAL
Project (Survey Dates)	Dev. Footprint	Avoidance Area	Dev. Footprint	Avoidance Area	Victory Pass ³ (2019/2020)	Arica (2019)	Athos (2017/2018)	Harvest ⁴ (2010)	Sapphire (2022)	ALL PROJECTS
DETO Sign Type	•		•							
Live individuals	-	-	1	2	5	-	-	-	-	8
Live individuals at burrow	-	-	-	3	-	-	-	-	-	3
Tracks	-	-	1	6	-	-	1	-	-	8
Non-viable intact tortoise egg	-	-	1	-	-	-	-	-	-	1
BURROW										
Class 1	-	-	-	4	4	-	-	-	-	8
Class 2	-	-	1	2	2	-	1	1	-	7
Class 3	-	-	3	4	2	-	4	1	-	14
Class 4	-	-	1	1	-	_	4	-	-	6
Class 5	-	-	-	-	1	-	_	-	-	1

Project (Survey Dates)	Easley ¹ (2021/2022)		Oberon ² (2018/2019/2020)					Desert		TOTAL
	Dev. Footprint	Avoidance Area	Dev. Footprint	Avoidance Area	Victory Pass ³ (2019/2020)	Arica (2019)	Athos (2017/2018)	Harvest ⁴ (2010)	Sapphire (2022)	ALL
PALLET										
Class 1	-	-	-	-	1	-	-	-	-	1
Class 2	-	-	-	-	1	-	-	-	-	1
Class 3 (none)	-	-	-	-	-	-	-	-	-	0
Class 4 (none)	-	-	-	-	-	-	-	-	-	0
Class 5	-	-	-	2	-	-	-	-	-	2
SCAT										
Class 1	-	-	-	-	1	-	1	-	-	2
Class 2	-	-	-	1	-	-	-	-	-	1
Class 3	-	-	-	-	1	-	-	-	-	1
Class 4 (none)	-	-	-	-	-	-	-	-	-	0
Class 5	-	-	1	1	-	-	-	-	-	2
CARCASS										
Class 1	-	-	-	-	1	-	-	-	-	1
Class 2 (none)	-	-	-	-	-	-	-	-	-	0
Class 3	-	-	-	1	-	-	-	-	-	1
Class 4	1	1	-	1	-	1	-	-	-	4
Class 5	-	7	4	7	-	-	-	3	2	23
TOTAL DETO SIGN	1	8	13	35	19	1	11	5	2	95

NOTES:

1 - Easley: Two Class 5 carcasses were located outside the Project Area, adjacent to BLM land.

2 - Oberon: Observed live individuals were all adults. Class 3 carcass was an unknown tortoise species.

3 - Victory Pass: Observed live individuals were all adults; 2 females, 3 males.

4 - Desert Harvest: Three Class 5 bone fragments (carcass), possibly of tortoise origin, were found and may have been washed onto the site from upstream. Due to their old age, highly weathered surfaces and edges, and the small size of the fragments, assigning them definitively to tortoise was not possible.

Due to the number and size of the cumulative projects, they would result in a cumulatively significant impact. Mitigation measures identified in this EIR under Impact BIO-2, implementation of DRECP CMAs on BLM-administered land, and other permitting requirements would prevent lethal take of desert tortoise and avoid and minimize impacts to its habitat on the Easley Project site.

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The surrounding projects would be subject to similar CEQA and/or NEPA mitigation measures, permitting requirements, biological resources management plans, and DRECP CMAs (for projects on BLM-administered land), which would have been developed to minimize impacts to habitat and prevent lethal take of desert tortoise. In addition, if any live desert tortoises are found on the Easley and or Oberon sites, they would be relocated or translocated in accordance with the Easley Desert Tortoise Protection and Translocation Plan (MM BIO-7) (Aspen, 2023EIR Appendix P) and the Oberon Desert Tortoise Protection and Translocation Plan (Aspen, 2022). Desert tortoises would be moved offsite when encountered during both construction and operation if suitable habitat is not available nearby. Compensation for impacts to suitable desert tortoise habitat (creosote bush scrub) at a minimum ratio of 1:1, and compensation for impacts to desert tortoise habitat at a ratio of 5:1, would offset habitat loss (MM BIO-7). Implementation of a Wildlife Protection and Relocation Plan (MM BIO-13) would protect individuals and burrows with buffers to avoid direct injury and mortality. Passive exclusion of individuals would prevent entrapment during construction, avoid the need for handling, and avoid direct injury and mortality. Collapsing inactive burrows prevents further use to avoid future risk to the species from construction in the Project area.

By following agency protocols for tortoise surveying, handling, and relocating, and by using qualified and permitted biological staff, individual desert tortoise would be detected for avoidance and monitoring, and mortality and injury during construction, handling, and relocation would be reduced. By implementing the associated Raven Management Plan (MM BIO-7) (Appendix Q), attractants for opportunities predators, such as food, water, trash, roadkill, and perching opportunities, would be identified, managed, and reduced.

The Project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations in any ROW Grant issued for the Project.

In addition to CMAs previously listed for habitat and all special-status wildlife species, compliance with the following CMAs, which would be required on BLM lands, as described Impact BIO-2, would mitigate impacts to less than significant.

- LUPA-BIO-IFS-1 to -9 (Individual Focus Species (IFS): Desert Tortoise)
- DFA-VPL-BIO-IFS-1 (Individual Focus Species (IFS): Desert Tortoise).

Similar to the mitigation measures on private lands, these measures are expected to effectively avoid lethal take of desert tortoise by avoiding disturbance of individuals, protecting them from work site hazards, identifying and collapsing empty burrows, and passively excluding them from the Project area.

In compliance with the BLM DRECP CMAs, the Easley, Oberon, Arica, and Victory Pass Projects will avoid suitable desert dry wash woodland habitat with a 200-foot buffer throughout the Project sites, except for minor incursion (LUPA-BIO-3 (Resource Setback Standards), LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species), LUPA-BIO-SVF-6 (Special Vegetation Features). Future projects on BLM-administered land in the Desert Center area would likewise be subject to the same DRECP CMAs to protect the hydrologic function and species habitat of thein desert dry wash woodland areas. If approved, the proposed expansion of Joshua Tree National Park and creation of the Chuckwalla National Monument would strengthen and expand protection of critical habitat to the west of Kaiser Road and south of I-10. The Project's contribution to cumulative impacts to desert tortoise and its critical habitat would not be considerable.

With implementation of the mitigation measures on private lands and CMAs on BLM land, and for the reasons provided above, the proposed Project's contribution to cumulative impacts to desert tortoise would not be cumulatively considerable.

7-9

Native birds, including special-status passerine birds. Migratory birds are expected to occur throughout the area during construction and O&M. Land use conversion in the Project area and in other of the cumulative projects would result in habitat loss and degradation, displacement, decreased foraging activities, and potentially disruption or failure of nesting, increased predation, or mortality. Solar panels and the gen-tie line of the proposed Project as well as other solar PV projects may cause electrocution and collision hazards, such as a "lake effect," leading to bird mortality. Taken together, the projects would result in a cumulatively significant impact for native birds. The proposed Project's impacts would be mitigated through pre-construction surveys, avoidance of active nests, and O&M phase adaptive management for bird mortality, as described in MM BIO 8 (Bird and Bat Conservation Strategy).

In addition to MMs previously listed for all special-status wildlife, to mitigate effects to native birds on the Easley site, MM BIO-8 (BBCS) requires the development a BBCS Plan that would identify potential hazards to birds and bats during construction and O&M. The Plan (see Appendix M) specifies measures to recognize, minimize, and avoid hazards, describe procedures for reporting and handling dead or injured wildlife, and describe post-construction monitoring and adaptive management for bird and bat mortality. Hazards may include collision, electrocution, territory abandonment, nest and roost site disturbance, habitat loss and fragmentation, disturbance from human presence, and predator subsidies, in accordance with USFWS guidelines (USFWS, 2010). The plan requires provisions for adaptive management to evaluate the death and injury of birds that are detected, based on the results of similar monitoring at other solar project sites in the vicinity. By implementing the requirements of the BBCS, injury and mortality from work site and Project related risks, and operation of the solar facilities, such as collision and electrocution, would be adaptively managed and reduced.

MM BIO-9 would protect nesting birds by implementing a Nesting Bird Management Plan (NBMP) (Appendix O), which requires pre-construction nest surveys and sweeps, establishment of exclusion buffers around active nests and nest monitoring, and agency reporting and adaptive management. Surveys, exclusion buffers, and monitoring would protect nesting birds from direct mortality or injury; avoid direct destruction of nests, eggs, and young; and minimize disturbance of nesting behaviors from construction noise, vibrations, dust, lighting, and increased human presence, which could otherwise result in nest abandonment.Natural habitat loss would be minimized and offset through mitigation measures identified under Impact BIO-1.

MM BIO-10 (Gen-tie Lines) would require mechanisms in accordance with APLIC standards (APLIC 2006, 2012) to visually warn birds such as permanent markers or bird flight diverters; avoid or minimize use of guy wires; and maintain sufficient distance between all conductors and grounded components to prevent electrocution of large birds. By implementing these design features, injury and mortality from electrocution would be minimized.

In addition to CMAs previously detailed for all special-status wildlife species, the following CMAs would be implemented to minimize impacts to native birds on BLM land in the Project site:

- LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs).
- LUPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species).
- LUPA-BIO-COMP-2 (Compensation (Birds and Bats)).
- LUPA-BIO-IFS-11 (Bendire's Thrasher).
- LUPA-TRANS-BIO-1, -2, and -4 (Biological Resources).

By identifying potential hazards to birds and bats during construction and O&M, and monitoring for injury and mortality from work site and Project related hazards such as collision and electrocution, implementation of these CMAs on BLM land would ensure that impacts are adaptively managed and reduced. Protecting nesting birds would avoid direct mortality or injury, destruction of nests, eggs, and young, and disturbance of nesting behaviors from construction.

7-9

The incremental contribution of the proposed Project to the cumulative impacts to native bird habitat and nesting success would not be considerable because pre-construction nesting bird surveys would be performed to avoid impacts, and native habitat loss-would be offsetre-vegetated and managed postconstruction. Regarding To reduce potential collision with the solar facilities or gen-tie line, MM BIO-8 (Bird and Bat Conservation Strategy) and CMA LUPA-BIO-16 and -17 (Activity-Specific Bird and Bat CMAs), would require adaptive management based on <u>Project related risks and</u> monitoring of bird mortality at surrounding solar projects. MM BIO-9–10 (Gen-tie Lines) and CMA LUPA-TRANS-BIO-1, -2, and -4 (Biological Resources) would require mechanisms to visually warn birds such as permanent markers or bird flight diverters and maintain sufficient distance between all conductors and grounded components to prevent electrocution.

With implementation of the Project's mitigation measures <u>on private lands and CMAs on BLM lands</u>, the contribution to cumulative impacts to native bird populations from the proposed solar facilities would not be <u>cumulatively</u> considerable.

Burrowing owl. Potential impacts of the solar facilities to burrowing owl include habitat loss or degradation, possible injury or mortality if they are present in a work area, particularly during nesting season, and possible mortality from collision with facilities, as described above for native birds. Other projects in the vicinity include transmission lines and solar energy projects with similar habitat for burrowing owl. Effects of the other projects would be similar to potential effects of the proposed Project. Together these projects would result in significant impacts to habitat and mortality of burrowing owls. In addition to MMs previously listed for all special-status wildlife, MM BIO-11 (Burrowing Owl Avoidance and Relocation) and MM BIO-13 (Wildlife Protection and Relocation Plan) are expected to effectively avoid lethal take of burrowing owls by surveying for individuals according to established protocols, avoiding disturbance of individuals and nests in the Project site and surrounding buffer areas, protecting them from work site hazards, and passively excluding them from the Project area.

In addition to the CMAs previously listed for all special-status wildlife species, the following CMAs would be implemented on BLM land within the Project site to minimize impacts to western burrowing owl:

LUPA-BIO-IFS-12 to -14 (Burrowing Owl).

Similar to the mitigation measures implemented on private lands, these measures are expected to avoid take of burrowing owls by surveying per protocols, avoiding disturbance, managing work site hazards, and passively excluding them from the Project area.

The incremental contribution of the proposed Project to the cumulative impacts to burrowing owls, including habitat <u>loss</u>, construction-related mortality, or collision morality, would not be considerable because mitigation measures would be implemented <u>on private lands and CMAs would be implemented</u> <u>on BLM lands</u>, individuals would be relocated to an off-site location prior to construction, and potential collision would be mitigated as described above for native birds.

Special-status raptors, including golden eagle. Marginal nesting habitat for elf owl is present. The site provides suitable seasonal or year-round foraging habitat for several raptor species, including Swainson's <u>hawk</u>, described under Impact BIO-1, and is within potential foraging distance of known golden eagle nesting territories. Several raptors are likely to forage infrequently on the solar facility site at any time of year, including winter and migration seasons. Effects of the other projects in the vicinity would be similar to potential effects of the proposed Project. Cumulatively, these projects could result in significant impact to foraging due to habitat loss.

In addition to MMs previously listed for all special-status wildlife, MM BIO-8 (Bird and Bat Conservation Strategy), as previously described, requires implementation of a BBCS (Appendix M) to identify, minimize, and avoid Project related hazards to birds and bats, provide procedures for handling and reporting dead and injured wildlife, and describe a strategy for post-construction adaptive management for bird and bat mortality associated with the Project. By implementing the requirements of the BBCS, instances of raptor injury and mortality associated with solar facilities would be adaptively managed and impacts would be minimized. MM BIO-9 (Nesting Bird Management Plan) (Appendix O) requires performing pre-construction nest surveys and implementing buffers and monitoring around active nests, which would protect nesting raptors from disturbance due to increased noise, dust, vibration, and human presence and from direct destruction of nests, eggs, and young.

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MM BIO-10 (Gen-tie Lines) would require mechanisms in accordance with APLIC standards (APLIC 2006, 2012) to visually warn birds such as permanent markers or bird flight diverters; avoid or minimize use of guy wires; and maintain sufficient distance between all conductors and grounded components to prevent electrocution of large birds. By implementing these design features, injury and mortality from electrocution would be minimized.

In addition to the CMAs previously described for all special-status wildlife species, the following CMAs would be implemented on BLM land within the Project site to minimize impacts to raptors:

- LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs).
- LUPA-BIO-COMP-2 (Compensation (Birds and Bats)).
- LUPA-BIO-IFS-25 (Golden Eagle).
- DFA-BIO-IFS-2 (Biological Resources).
- LUPA-TRANS-BIO-1, -2, and -4 (Biological Resources).

By identifying potential hazards to birds and bats during construction and O&M, and monitoring for injury and mortality from work site and Project related hazards such as entrapment, collision, and electrocution, implementation of these CMAs on BLM land would ensure that impacts are adaptively managed and reduced. Protecting nesting birds would avoid direct mortality or injury, destruction of nests, eggs, and young, and disturbance of nesting behaviors from construction. Species-specific setbacks would ensure that protected raptors are appropriately buffered to avoid disturbance, injury, or mortality.

The incremental contribution of the proposed Project to the cumulative impacts to special-status raptors would not be considerable, because <u>mitigation measures would be implemented on private lands and</u> <u>CMAs would be implemented on BLM lands</u>, native habitat loss would be minimized and potential collision <u>hazards</u> would be <u>adaptively managed and</u> mitigated as described above for native birds.

Desert kit fox and American badger. Active desert kit fox burrows and American badger burrows occur on the Project site. Both species could use native habitats, wherever prey animals may be present. Both species are expected to occur on the cumulative project sites and loss of the habitat and prey species could result in a significant cumulative impact. Mitigation measures identified under Impact BIO-1 would offset-minimize habitat loss and prevent or minimize wildlife injury and mortality. In addition to MMs previously listed for all special-status wildlife, MM BIO-12 (Desert Kit Fox and American Badger Relocation) and MM BIO-13 (Wildlife Protection and Relocation Plan) are expected to effectively avoid lethal take of desert kit fox and American badger by performing pre-construction surveys for individuals according to established protocols, avoiding disturbance of individuals and nests in the Project site and surrounding buffer areas, protecting them from work site hazards, and passively excluding them from the Project area. Identification of individuals and avoidance of active dens would minimize disturbance of American badger and desert kit fox. Passive exclusion of individuals from dens would prevent entrapment during construction and avoid direct injury and mortality. Pre-construction surveys would be performed to exclude both species from work sites.

No additional species-specific CMAs are applicable to desert kit fox and American badger beyond those previously listed for all special-status wildlife species.

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The incremental contribution of the proposed Project to the cumulative impacts to these species would not be considerable because <u>mitigation measures would be implemented on private lands and CMAs</u> <u>would be implemented on BLM lands</u>, individuals would be relocated out of harm's way to an off-site location and native habitat loss would be minimized.

Burro deer. The principal potential impacts to burro deer would be reduced access to dependable irrigation water at agricultural sites. Burro deer are expected to occur on the cumulative project sites and loss of native habitat and access to water sources could result in a significant cumulative impact. Mitigation measures previously listed for Vegetation and Habitat (MM BIO-1 to MM BIO-5), identified under Impacts BIO-1 and BIO-3 would minimizeoffset habitat loss and minimize impacts to wildlife movement by restricting disturbance to work areas and improving post-construction habitat values.

Desert dry wash woodland would be avoided, except for minor incursions, per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would preserve habitat values for burro deer in the Project area and offset habitat loss consistent with CMAs LUPA-BIO-RIPWET-1 and LUPA-BIO-COMP-1.-

No additional species-specific CMAs are applicable to burro deer beyond those previously listed for all special-status wildlife species.

The incremental contribution of the proposed Project to the cumulative impacts to burro deer would not be considerable because <u>mitigation measures would be implemented on private lands and CMAs would</u> <u>be implemented on BLM lands</u>, no take would occur, and desert dry wash woodland used for wildlife movement would be avoided.

Special-status bats. Construction of the Project could adversely impact special-status bats through the conversion of desert shrubland foraging habitat. Desert dry wash woodland that may support limited roosting sites would be avoided. Removal of those features could disturb, injure, or kill bats. Mitigation measures identified under Impact BIO-1 would minimize and offset-habitat loss, inspect structures and remove wildlife or allow wildlife to escape prior to demolition, and require pre-construction surveys or scheduling of tree removal outside the bat maternal roosting season.

In addition to MMs previously listed for all special-status wildlife, MM BIO-8 (Bird and Bat Conservation Strategy) requires a project-specific risk assessment to address potential for take of birds and bats due to Project related threats including collision, electrocution, territory abandonment, nest and roost site disturbance, habitat loss and fragmentation, disturbance from human presence, and predator subsidies. The plan further describes a strategy for post-construction adaptive management for bird and bat mortality associated with the Project. By implementing the requirements of the BBCS, instances of bat injury and mortality associated with solar facilities would be adaptively managed and impacts would be minimized.

In addition to the CMAs previously listed for all special-status wildlife species, the following CMAs would be implemented on BLM land within the Project site to minimize impacts to bats:

- LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs).
- LUPA-BIO-BAT-1 (Bat Species (BAT)).
- LUPA-BIO-COMP-2 (Compensation (Birds and Bats)).

<u>These measures would minimize and avoid disturbance, injury, and mortality of bats by identifying, moni-</u> toring, and managing project related risks and are <u>These measures are</u> expected to effectively minimize potential impacts to special-status bats and to offset habitat loss. Cumulative projects would also convert desert shrubland foraging habitat and remove roost sites, resulting in a significant cumulative impact to special-status bats. These projects would implement mitigation measures and DRECP CMAs, as applicable, similar to those identified for the proposed Project, including offsite compensation for native habitats, avoidance of active roosts, avoidance of desert dry wash wood-land, and Bird and Bat Conservation Strategies. The incremental contribution of the proposed Project to the cumulative impacts to special-status bats would not be considerable because <u>mitigation measures</u> would be implemented on private lands and CMAs would be implemented on BLM lands, desert dry wash woodland habitat would persist on the Project site, native habitat loss would be minimized, and potential collision would be <u>adaptively managed</u> mitigated as described above for native birds.

Wildlife movement. Cumulative impacts for wildlife movement consider projects within 5 miles that could impact multi-species linkages. Past, present, and foreseeable projects are listed in Tables 3.1-1 and 3.1-2 and include the SCE Red Bluff Substation and Oberon Solar Project to the south, the Sapphire, Palen, Arica, and Victory Pass Solar Projects to the east, the Athos Solar Project to the north and east, and the Desert Harvest, Desert Sunlight to the north. Together with the other solar projects in the surrounding area, cumulative impacts to wildlife movement in the vicinity of the Project area would be significant. The southernmost portion of the DRECP Pinto Wash multi-species linkage overlaps the northern Project area, a portion of which would be impacted by the proposed Project. The avoided portion of the linkage on the Easley Project site supports desert dry wash woodland. Avoidance of this habitat would help maintain movement opportunities east-west through the southern portion of the linkage. Undeveloped lands would persist in the remainder of the multi-species linkage to the north, in ACECs located east and south of the Project site, and if approved by Congress, in the areas of the proposed expansion of Joshua Tree National Park and the Chuckwalla National Monument to the west and south. In combination with avoidance of desert dry wash woodland on BLM lands under the DRECP, and at other cumulative projects, limited wildlife movement through and around the Project would be maintained.

On private lands, MMs BIO-1 through BIO 5, described in detail in Impact BIO-1, would minimize significant impacts to native vegetation, including corridor habitat, by restricting disturbance to work areas, promoting low impact development and preserving vegetation under solar panels, and improving post-construction habitat values. MM BIO-6 (Wildlife Protection) identifies numerous requirements to manage hazards to wildlife in work areas and report dead or injured wildlife. These measures would increase detection of wildlife in Project areas that require avoidance and would prevent attraction to the Project site where there is increased likelihood of disturbance.

MMs BIO-7 through BIO-13 would prevent significant impacts to specific special-status wildlife species and nesting or breeding sites by requiring specific pre-construction surveys and nesting surveys, species protection plans, passive exclusion of wildlife from work areas or relocation or translocation of certain species away from the area, and avoidance of buffer areas while bird nests and occupied burrows and dens are active.

These measures ensure that work areas would be inspected and surveyed, and that special-status wildlife would be identified, monitored, buffered and avoided, or properly excluded or relocated, which is expected to reduce the likelihood and severity of injury, and the likelihood of mortality of wildlife with potential to move through the Project areas or use the site for breeding or rearing of young.

The Project has been designed to avoid desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation (desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7)) would preserve habitat values and corridors for wildlife movement and would offset habitat loss, consistent with CMAs LUPA-BIO-RIPWET-1 and LUPA-BIO-COMP-1.

Long-term night lighting that could affect nocturnal and other wildlife and wildlife movement would be managed per MM VIS-1 (see EIR Section 3.2, Aesthetics).

7-9

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with the following CMAs, which would be required on BLM lands, as described in Impact BIO-3, would mitigate impacts to less than significant.

- LUPA-BIO-1 (Biological Resources).
- <u>LUPA-BIO-2 (Biological Resources).</u>
- LUPA-BIO-5 (Worker Education).
- LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term Disturbance).
- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- LUPA-BIO-SVF-1 (Special Vegetation Features).
- LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management).
- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).

Similar to the requirements of the MMs that would be implemented on private land within the Project site, these CMAs reduce impacts to wildlife and habitat by requiring qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot setback buffer would prevent direct removal of wildlife and corridor habitat.

Per LUPA-BIO-13 (General Siting and Design) projects along the edges of the biological linkages are required to maximize the retention of microphyllous woodlands in order to maintain the function of the connectivity area. By avoiding desert dry wash woodland with a setback buffer, consistent with CMAs, Project areas would be left open to wildlife movement and the Project would not threaten the long-term viability and function of the corridor.

The Project's contribution to cumulative impacts to wildlife movement would not be considerable.

Local policies and ordinances. All cumulative projects are subject to environmental review and approval by federal, State, or local agencies. During that process, the agencies review the applicable polices and ensure that each project complies with policies and ordinances, and impose conditions as appropriate to ensure compliance. Therefore, there is no significant cumulative conflict with local policies and ordinances. The proposed Project does not conflict with local policies or ordinances and thus has no contribution to any cumulative conflict. Cumulative impacts to policies and ordinances would be less than significant.

Mitigation Measures for Cumulative Impacts

Mitigation Measures BIO-1 through MM BIO-12-14, detailed in full in Section 3.5.7, would be implemented on private land in the Project site to address potential biological resources impacts for the proposed Project and Lake Tamarisk Alternativeall alternatives. No additional mitigation is required.

DRECP CMAs for Cumulative Impacts

<u>CMAs identified in the analysis above would be implemented on BLM land in the Project site to address</u> potential biological resources impacts for the proposed Project and alternatives.

- <u>LUPA-BIO-1 (Biological Resources).</u>
- <u>LUPA-BIO-2 (Biological Resources).</u>
- LUPA-BIO-5 (Worker Education).
- <u>LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but not Converted by Long-Term</u> <u>Disturbance).</u>
- LUPA-BIO-10 (Standard Practices for Weed Management).
- LUPA-BIO-11 (Nuisance Animals and Invasive Species).
- LUPA-BIO-13 (General Siting and Design).
- LUPA-BIO-SVF-1 (Special Vegetation Features).
- LUPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation Management).
- LUPA-BIO-3 (Resource Setback Standards).
- LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species).
- LUPA-BIO-SVF-6 (Special Vegetation Features).
- LUPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 (Biological Compensation).
- <u>LUPA-BIO-4 (Seasonal Restrictions).</u>
- LUPA-BIO-6 (Subsidized Predators Standards).
- LUPA-BIO-12 (Noise).
- LUPA-BIO-14 (Biology: General Standard Practices).
- LUPA-BIO-15 (Biology: General Standard Practices).
- DFA-BIO-IFS-1 to -3 (Biological Resources).
- LUPA-BIO-9 (Water and Wetland Dependent Species Resources)
- LUPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs)
- LUPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species)
- LUPA-BIO-BAT-1 (Bat Species (BAT))
- LUPA-BIO-COMP-2 (Compensation (Birds and Bats))
- LUPA-BIO-IFS-11 (Bendire's Thrasher)
- LUPA-BIO-IFS-12 to -14 (Burrowing Owl)
- LUPA-BIO-IFS-25 (Golden Eagle)
- LUPA-TRANS-BIO-1, -2, and -4 (Biological Resources)
- LUPA-BIO-IFS-1 to -9 (Individual Focus Species (IFS): Desert Tortoise)
- DFA-VPL-BIO-IFS-1 (Individual Focus Species (IFS): Desert Tortoise)

Significance After Mitigation

With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above on BLM land within the Project site, **T**the Project's contribution to cumulative impacts would not be cumulatively considerable. with implementation of mitigation identified above.

3.5.7. Mitigation Measures

MM BIO-1 Biological Monitoring. Monitoring to ensure conformance with conditions of approval, including effective protection and avoidance of biological resources, shall be implemented by the Applicant as follows:

Biological Monitoring Team. During construction and decommissioning, the Applicant shall employ a biological monitoring team to oversee Project activities. Any activity that

may impact vegetation, wildlife, and sensitive resources shall be monitored to ensure compliance with all mitigation measures for biological resources.

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The biological monitoring team shall consist of:

- Lead Biologist: The Applicant shall assign a Lead Biologist, approved by Riverside County, BLM, CDFW, and USFWS as the primary point of contact for the BLM and resource agencies regarding biological resources mitigation and compliance. The Lead Biologist shall have an approved MOU with Riverside County prior to commencing work on the Project.
- Biological Monitor: Biological monitors shall be overseen by the Lead Biologist and shall perform any required surveys, ground disturbance and construction monitoring, wild-life monitoring, inspections, marking sensitive resource buffers, and revegetation monitoring during Project activities. Biological monitors shall include trained desert tortoise monitors (MM BIO-7) and nest monitors (MM BIO-8).
- Authorized Desert Tortoise Biologist: For desert tortoise protection measures (MM BIO-7), the Applicant shall nominate a qualified individual to serve as Authorized Desert Tortoise Biologist, for approval by the USFWS and CDFW.

The Applicant shall provide the resumes of the proposed Biological Monitoring Team to the BLM and Riverside County for approval prior to onset of ground-disturbing activities. The Biological Monitoring Team shall have demonstrated expertise with the biological resources within the Project region. The Biological Monitoring Team shall have authority to halt any activities in any area if it is determined that the activity, if continued, would cause an unauthorized adverse impact to biological resources.

The duties of the Biological Monitoring Team shall vary during the construction, O&M, and decommissioning phases, based on the biological monitoring tasks needed for compliance during each phase. During O&M, an Applicant staff member serving as a compliance manager may perform the duties of the Lead Biologist to ensure compliance with biological mitigation measures, such as performing inspections for entrapped wildlife and fence condition, reporting dead or injured wildlife, and avoiding nesting birds, and inspections of panel washing. The Applicant's compliance manager, if serving as Lead Biologist during O&M, shall have an approved MOU with Riverside County prior to commencing Lead Biologist duties on the Project.

In general, the duties of the Lead Biologist shall include, but shall not be limited to:

- Regular, direct communication with representatives of the BLM, and other agencies, as appropriate. The Lead Biologist, or during O&M, the Applicant's compliance manager, shall immediately notify the BLM and applicable resource agencies in writing of dead or injured special-status species, or of any non-compliance with biological mitigation measures or permit conditions.
- Train and supervise Biological Monitors, including desert tortoise monitors, nest monitors, and construction monitors.
- Conduct or oversee Worker Environmental Awareness Program (WEAP) training (MM BIO-2).
- During construction and decommissioning, clearly mark and inspect sensitive biological resource areas in compliance with regulatory terms and conditions.
- Oversee wildlife clearance surveys, ground disturbance and grading, and biological monitoring. Ensure that all biological monitoring is completed properly and on schedule.

 Conduct or oversee bi-weekly compliance inspections during ground-disturbing activities and communicate any remedial actions needed (i.e., trash, fence, weed maintenance; wildlife mortality) to maintain compliance with mitigation measures.

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Reporting. The Lead Biologist, or during O&M, the Applicant's compliance manager, shall report regularly to the BLM and Riverside County to document the status of compliance with biological mitigation measures.

During construction and decommissioning:

- Provide weekly verbal or written updates to the BLM with any information pertinent to the BLM and Riverside County, to resource agencies, or to state or federal permits for biological resources.
- Prepare and submit monthly and annual compliance reports to include a summary of Project activities that occurred, biological resources surveys and monitoring that were performed, any sensitive or noteworthy species observed, weed infestations removed, and non-compliance issues and remedial actions that were implemented.

During O&M:

- Conduct quarterly compliance inspections and reporting, to be submitted to the BLM and Riverside County, to document the condition of exclusion fencing, wildlife mortality, and any biological resource issues of note.
- **MM BIO-2** Worker Environmental Awareness Training. The Lead Biologist shall prepare and implement a Worker Environmental Awareness Program (WEAP). The Applicant shall be responsible for ensuring that all workers at the site receive WEAP training prior to beginning work on the Project and <u>receive annual refresher trainings</u> throughout construction, <u>and</u> operations, <u>and decommissioning</u>. The WEAP shall be available in English and Spanish. The Applicant shall submit the WEAP to the lead agency and resource agencies for approval prior to implementation. The WEAP will:
 - Be developed by or in consultation with the Lead Biologist and consist of an on-site or training center presentation with supporting written material and electronic media, including photographs of protected species, available to all participants.
 - Provide an explanation of the function of flagging that designates authorized work areas; specify the prohibition of soil disturbance or vehicle travel outside designated areas.
 - Discuss general safety protocols such as vehicle speed limits, hazardous substance spill prevention and containment measures, and fire prevention and protection measures.
 - Review mitigation and biological permit requirements.
 - Explain the sensitivity of the vegetation and habitat within and adjacent to work areas, and proper identification of these resources.
 - Discuss the federal and state Endangered Species Acts, Bald and Golden Eagle Protection Act, and the Migratory Bird Treaty Act and the consequences of non-compliance with these acts.
 - Discuss the locations and types of sensitive biological resources on the Project site and adjacent areas and explain the reasons for protecting these resources.
 - Inform participants that no snakes, other reptiles, birds, bats, or any other wildlife shall be harmed or harassed.

Place special emphasis on species that may occur on the Project site and/or gen-tie lines, including special-status plants, <u>Crotch bumble bee</u>, desert tortoise, burrowing owl, golden eagle, nesting birds, desert kit fox, American badger, and burro deer.

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- Specify guidelines for avoiding rattlesnakes and reporting rattlesnake observations to ensure worker safety and avoid killing or injuring rattlesnakes. Rattlesnakes should be safely removed from the work area using appropriate snake handling equipment, including a secure storage container for transport, or by calling local animal control.
- Describe workers' responsibilities for avoiding the introduction of invasive weeds onto the Project site and surrounding areas, describe the Integrated Weed Management Plan.
- Provide contact information for the Lead Biologist and instructions for notification of any vehicle-wildlife collisions or dead or injured wildlife species encountered during Project-related activities.
- Include a training acknowledgment form to be signed by each worker indicating that they received training and shall abide by the guidelines.
- Desert Tortoise Education Requirements: Prior to the start of construction activities, a desert tortoise education program shall be presented by the Lead Biologist to all personnel who will be present on Project work areas. Following the start of construction, any new employee shall be required to complete the tortoise education program prior to working on site. At a minimum, the tortoise education program shall cover the following topics:
 - (a) A detailed description of the desert tortoise, including color photographs;
 - (b) The distribution and general behavior of the desert tortoise;
 - (c) Sensitivity of the species to human activities;
 - (d) The protection the desert tortoise receives under the state and federal Endangered Species Acts, including prohibitions and penalties incurred for violation;
 - (e) The protective measures being implemented to conserve the desert tortoise during construction activities;
 - (f) Procedures and a point of contact if a desert tortoise is observed on site.
- MM BIO-3 Minimization of Vegetation and Habitat Impacts. Prior to ground-disturbing activities during construction, O&M, or decommissioning, authorized work areas shall be clearly delineated and sensitive resources that require avoidance would be flagged by the Lead Biologist. These areas shall include, but not be limited to, staging areas, access roads, and sites for temporary placement of construction materials and spoils. Delineation may be implemented with common orange vinyl "fencing" or staking to clearly identify the limits of work and will be verified by the Lead Biologist. No paint or permanent discoloring agents shall be applied to rocks or vegetation (to indicate surveyor construction activity limits or for any other purpose). Fencing/staking shall remain in place for the duration of construction. Spoils shall be stockpiled in disturbed areas. All disturbances, vehicles, and equipment shall be confined to the fenced/flagged areas.

Construction activities shall minimize soil and vegetation disturbance and onsite construction/vehicle trips to minimize impacts to soil and root systems. Erosion control shall be implemented as described in the Drainage Erosion and Sedimentation Control Plan (DESCP) (MM HWQ-1), which requires identification of erosion treatments for exposed soil, such as chemical-based dust pallatives, soil bonding, and weighting agents suitable for use around vegetation. Additional BMPs, as committed to by the Applicant and incorporated into the Project Description, are described in Section 2.7 and include designation of primary travel routes, limiting grading to specific areas, building racking material in laydown areas to minimize use of roads, using equipment with smaller rubber-wheeled vehicles, maintaining hydrologic flow patterns, and preserving propagule islands to support vegetation recovery.

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Upon completion of construction activities in any given area, all unused materials, equipment, staking and flagging, and refuse shall be removed and properly disposed of, including wrapping material, cables, cords, wire, boxes, rope, broken equipment parts, twine, strapping, buckets, and metal or plastic containers. Any unused or leftover hazardous products shall be properly disposed of off-site in accordance with applicable legal requirements.

Hazardous materials shall be handled in accordance with applicable legal requirements, and spills or leaks shall be promptly corrected and cleaned up according to applicable legal requirements. Vehicles shall be properly maintained to prevent spills or leaks. Hazardous materials, including motor oil, fuel, antifreeze, hydraulic fluid, grease, shall not be allowed to enter drainage channels.

Low-Impact Site Preparation and O&M. Native vegetation shall be allowed to recover from rootstocks and seed bank wherever facilities do not require permanent vegetation removal (e.g., access roads, foundations, paved areas, or fire clearance requirements) within the perimeter fenceline of the solar facilities and under solar arrays. Project BMPs (Section 2.7.2) to minimize impacts during site preparation require that primary travel routes be designated through panel arrays to minimize disturbance between rows; that grading be limited to specific areas, including roads, substation, O&M facilities, laydown areas, some equipment pads, and in discrete areas within the arrays; and that small rubber-wheeled equipment be used.

During O&M, Vyegetation height and density shall be managed as needed for O&M and for fire safety and operation of the solar panels. Onsite vegetation that re-establishes under the solar panels will be periodically trimmed to a height no more than 12 inches, to avoid interference with the panels. Vegetation may require trimming approximately once every three years, as needed. but vegetation management shall otherwise focus on rRevegetation of native habitat and protection of erosive soils shall be implemented in temporary impact areasmaintaining habitat and soil conditions, as described in MM BIO-4 and MM BIO-5.

<u>Compensation for impacts to Desert Pavement.</u> Compensatory mitigation for impacts to desert pavement shall be identified prior to disturbance of the features at a minimum 1:1 ratio, in coordination with BLM and CDFW.

MM BIO-4 Integrated Weed Management Plan. The Applicant shall prepare and implement an Integrated Weed Management Plan (IWMP) to minimize or prevent invasive weeds from infesting the site or spreading into surrounding habitat.

The IWMP must comply with existing relevant BLM plans and permits including the Vegetation Treatments Using Herbicides (BLM, 2007) and Vegetation Treatment Using Aminopyralid, Fluroxypyr, and Rimsulfuron (BLM, 2016b), and must be approved by BLM and Riverside County (or its designated representative). Use of any pesticides would conform with licensing and application requirements from the California Department of Pesticide Regulation.

Prior to herbicide use on BLM-administered lands, the BLM requires that a Pesticide Use Proposal (PUP) (BLM, 2019) be submitted to ensure that Projects follow herbicide use policies. If herbicides or pesticides will be used on BLM lands, the Applicant shall submit a Pesticide Use Proposal (PUP) form, to be approved by the BLM (also see Section 3.10.5 on hazardous materials). The PUP details which herbicides, pesticides, and associated adjuvants will be used for treatment, location of applications, responsible parties, timeline for treatment, application methods, application rates and maximum annual amounts, target species, and precautions for humans, sensitive resources, and non-target vegetation. Only a State of California and federally certified contractor will be permitted to perform herbicide applications. Only herbicides and adjuvants approved by the State of California and BLM for use on public lands will be used within or adjacent to the federal land segments of the Project.

The Applicant shall submit the BLM approved PUP to Riverside County and implement the requirements of the PUP on private lands.-including requiring a Pesticide Use Permit approved by the BLM and adhere to the design features included in the Project EIR and BLM EA. CDFW, BLM, and Riverside County (or its designated representative) must approve the plan. The IWMP shall identify weed species occurring or potentially occurring in the Project area, means to prevent their introduction or spread (e.g., vehicle cleaning and inspections), monitoring methods to identify infestations, and timely implementation of manual or chemical (as appropriate) suppression and containment measures to control or eradicate invasive weeds. The IWMP shall identify herbicides that may be used for control or eradication, and avoid herbicide use in or around any environmentally sensitive areas. The IWMP shall also include a reporting schedule, to be implemented by the Lead Biologist.

The IWMP shall require that cover and density of non-native plants within temporarily disturbed areas will be no more than 25% of total cover, or no more than comparable adjacent undisturbed lands. Total cover on the Project site shall be calculated during the annual quantitative monitoring as required in the Vegetation Resources Management Plan (MM BIO-5), which shall complement the IWMP. Quantitative monitoring shall be performed using California Native Plant Society (CNPS) Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022). Qualitative and quantitative vegetation monitoring will continue for a period of no less than three (3) years or until the defined success criteria are achieved (up to 5 years).

PLAN REQUIREMENTS

<u>Consistent with DRECP CMA LUPA-BIO-10 (Standard Practices for Weed Management),</u> <u>the Plan shall include:</u>

- Plan objectives, including weed prevention, identification, and control via eradication, suppression, and containment;
- A list and discussion of weed species occurring or potentially occurring in the Project area, including Cal-IPC threat rankings;
- Role and responsibilities of a Weed Management Biologist, who will track, manage, and coordinate weed management activities;
- A discussion of methods to prevent introduction or spread of weeds, including -worker training, vehicle cleaning and inspections, and use of weed-free seed, erosion control materials, and other construction material (gravel, sand, fencing);

- Requirements for annual monitoring of the Project site and 100-foot buffer in the early spring and late summer/early fall during construction, O&M, and decommissioning, and for 5 years after decommissioning;
- <u>A description of monitoring methods to identify and map infestations;</u>

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- A description of manual and mechanical treatments that may be used to suppress, contain, or eradicate invasive weeds, such as use of hand or power tools, hand pulling, and soil solarization;
- A description of chemical treatments (herbicide) that may be used, including permitting and regulatory requirements for use, types of herbicides to be used such as preemergent, post-emergent, selective, and non-selective and the weeds they affect, application methods and rates, handling and cleanup procedures, and best practices to minimize impacts of herbicide use on wildlife and native vegetation, such as suspending treatments when winds are high or if precipitation is imminent, mixing herbicides over a drip pan at least 200 feet from open or flowing water, inspecting containers for leaks, and maintaining spill kits in vehicles and storage areas;
- A requirement for any herbicides used to meet the requirements of the BLM Vegetation Treatment guidelines (BLM, 2007; BLM, 2016b) and be implemented in accordance with the PUP (BLM, 2019);
- A description of reporting, to require management and monitoring reports during construction, O&M and decommissioning, and for 5 years after decommissioning;
- Annual reports shall include the location, species, extent, and density of weeds; a description of management efforts, dates, locations, types of treatment, and results; and a summary of preventative measures such as vehicle wash logs and facilities and success of measures.
- MM BIO-5 Vegetation Resources Management Plan. The Applicant shall prepare and implement a Vegetation Resources Management Plan (VRMP), to be reviewed and approved by <u>USFWS</u>, <u>CDFW</u>, <u>BLM</u>, and <u>Riverside County</u> (or its designated representative). The VRMP shall address revegetation of temporarily disturbed areas and ongoing O&M management of native vegetation within the solar fields. The VRMP shall detail the methods to revegetate temporarily impacted sites and salvage special-status plants from the Project footprint; and outline long-term vegetation management within the solar facility during its operations.

The Lead Biologist shall oversee implementation of the VRMP to meet success criteria and prevent further degradation of areas temporarily disturbed by Project activities. Predisturbance habitat values would not be restored, but voluntary off-site compensation would offset the loss in habitat value.

The Vegetation Resources Management Plan shall detail the methods to revegetate temporarily impacted sites and salvage special-status plants from the Project footprint; and outline long-term vegetation management within the solar facility during its operations. The Plan shall require that total native vegetation cover will be no less than 80% of total vegetation cover on nearby undisturbed lands of comparable quality. Project sites previously disturbed by anthropogenic activities will be compared to nearby, similarly predisturbed sites.

As described below, total cover on the Project site shall be calculated during the annual quantitative monitoring as required in the VRMP, using California Native Plant Society (CNPS) Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022).

Transplantation of cacti and ocotillo shall be considered successful with 75% survival after 3 years. If unsuccessful, remediation will be implemented to plant additional cacti at a 2:1 ratio.

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PLAN REQUIREMENTS

Consistent with DRECP CMAs LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but Not Converted by Long-Term Disturbance), LUPA-BIO-VEG-1 (vegetation management for cactus, yucca, and other succulents under BLM policy), and LUPA-BIO-VEG-5 (adherence to BLM regulations and policies regarding salvage and transplants of cactus, yucca, other succulents, and BLM sensitive plants), the Plan shall include:

- Revegetation of temporarily impacted sites. The Plan shall specify methods to prevent or minimize further site degradation; stabilize soils; maximize the likelihood of vegetation recovery over time (for areas supporting native vegetation); and minimize soil erosion, dust generation, and weed invasions. The nature of revegetation will differ according to each site, its pre-disturbance condition, and the nature of the construction disturbance (e.g., drive and crush, vs. blading). <u>Revegetation and monitoring will be performed in accordance with CNPS Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022). Additional restoration guidance is provided in Abella and Berry 2016, and Abella et al. 2023, which describe techniques for restoring Mojave and western Sonoran habitats and desert tortoise habitat. New techniques, as available at the time of revegetation, will be integrated into vegetation management and adaptive management. The Plan shall include:</u>
 - soil preparation measures, including locations of recontouring, decompacting, imprinting, or other treatments, as prescribed by the Lead Restoration Ecologist and consistent with CNPS Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022);
 - (a) details for topsoil storage, as applicable;
 - plant material collection and acquisition guidelines, including guidelines <u>and methods</u> for salvaging, storing, and handling <u>seed and plants (including desert native species</u> <u>protected by the CDNPA, special-status plants, and Crotch bumble bee)</u> from the Project site,
 - <u>Guidelines for as well as obtaining replacement plants from outside the Project area</u> (seed and plant palettes and materials shall be limited to locally occurring native species from local sources);
 - (b) a plan drawing or schematic depicting the temporary disturbance areas (drawing of "typical" gen-tie structure sites will be appropriate);
 - (c) time of year that the planting or seeding will occur and the methodology of the planting;
 - (d) <u>maintenance details, including vegetation treatments;</u> a description of the irrigation, if used; erosion control measures; and non-native weed management per the <u>IWMP</u>;
 - (e) <u>quantitative</u> success criteria for regrowth of vegetation, requiring at least 80% native cover and no more than 20% non-native cover; and
 - (f) a monitoring program to measure <u>project compliance with</u> the success criteria, <u>including annual quantitative monitoring commensurate with the Plan's goals, in</u>

accordance with CNPS Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022);

(g) contingency measures for failed revegetation efforts not meeting success criteria, which may include, but is not limited to, reseeding, re-planting, erosion repairs, modifications to irrigation, and repair or remediation of sites;

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- (h) <u>annual monitoring reports to be submitted to BLM and Riverside County (or its</u> <u>designated representative), providing a summary of the restoration and adaptive</u> <u>management activities for the previous year</u>.
- Cactus Salvage. To conform with BLM DRECP CMA LUPA-BIO-VEG- 5, LUPA-BIO-VEG- 7, and BLM policy, t<u>T</u>he Applicant shall include salvaged or nursery stock yuccas (all species), and cacti (excluding cholla species, genus Cylindropuntia), in revegetation plans and implementation affecting BLM lands. The Plan shall include:
 - (a) -methods <u>of salvage, including to salvage and replant cacti and yucca found on the siteheavy equipment or hand tools, depending on plant size. For each plant, the microsite description will be recorded and the north-facing orientation will be identified and tagged.</u>
 - (b) to the extent feasible, plants shall be salvaged during the fall or winter to minimize transplantation stress. If cacti must be salvaged during spring or summer, they shall be held over in a shade structure and protected from wind and heat until fall for transplantation. If cacti must be installed during spring or summer, shade structures or "vertical mulch" (branches cleared from the work sites) will be provided as shelter from sun and wind.
 - (c) guidelines for removing plants, such that plants are dug to avoid root damage. <u>Roots shall be treated</u>, as necessary, and plants shall be transported to avoid root <u>damage</u>.;
 - (d) season for salvaging the plants; guidelines for storing plants, such that cacti and ocotillo shall be stored only when unavoidable. Plants shall be kept shaded and roots kept moist;
 - (e) <u>specific replanting locations shall be identified within Project lands, such as revegetation areas on tem-po-rarily disturbed work sites, unless directed otherwise by</u> <u>BLM (for BLM land) or the County (for private land);</u>
 - (f) methods for salvage, storage, and re-planting, ensuring that them; each salvaged plant shall be replanted in a microsite that resembles its salvage site and in the same north-facing orientation as the salvage site. Salvaged plants shall be covered deeply enough with soil to prevent root exposure and watered immediately after planting and at regular intervals thereafter based on needs of each species. locations for re-planting;
 - (g) <u>quantitative success criteria for survival, requiring at least 75% survival after 3</u> years. If this criterion is not met, remediation shall be implemented to plant additional cacti at a 2:1 ratio or increase native vegetation cover and diversity at <u>Project site.</u>
 - (h) <u>a monitoring program to measure Project compliance with the success criteria,</u> <u>including quarterly quantitative monitoring of survival status and identification of</u> <u>remedial actions needed, such as water, shade, or protection from wind, erosion,</u> <u>or wildlife. Results of monitoring shall be included in the annual monitoring report,</u> <u>as described above.</u>

- (i) <u>seeds from special-status plants, if found, would be salvaged for re-vegetation.</u> <u>CRPR 1 or 2 species that are found shall be experimentally salvaged. No quantitative success criteria are assigned for experimental salvage; however, monitoring data shall be provided to the CDFW, Riverside County, and BLM to inform future mitigation for those species.</u>
- -and appropriate monitoring and success criteria for the salvage work.

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- Operations Phase On-Site Vegetation Management. The Plan shall include mowing methods and scheduling for on-site vegetation management during O&M throughout the operations phase, describing. The Plan shall describe mowing or other vegetation treatments to be implemented, to minimize interference with the solar panels, fire hazard, soil disturbance, and disturbance of any bird nests. Vegetation shall be inspected annually to identify hazardous vegetation or barren areas prone to erosion that require repair. All mowed or cut plant material that contains invasive weeds will be transported to a licensed solid waste or com-posting facility. Mowed or cut native plant material may be used on site as mulch. Weed control during O&M will be conducted as described in the IWMP (MM BIO-4). It also shall address disposal of mown material, and incorporate all applicable components of the Integrated Weed Management Plan, including any proposed herbicide usage.
- **MM BIO-6** Wildlife Protection. The Applicant shall undertake the following measures during construction and O&M to avoid or minimize impacts to wildlife. Implementation of all measures shall be subject to review and approval by CDFW, BLM, and Riverside County (or its designated representative).

Wildlife avoidance. Project activities shall minimize interference with wildlife (including ground-dwelling species, birds, bats) by allowing animals to escape from a work site prior to disturbance; conducting pre-construction surveys and exclusion measures for certain species as specified in other measures; checking existing structures (homes, trailers, etc.) for animals such as bats, barn owls, skunks, or snakes that may be present, and safely excluding them prior to removing the structures.

Minimize traffic impacts. The Applicant shall specify and enforce maximum vehicle speed limits as specified in the Traffic Control Plan, to minimize risk of wildlife collisions and fugitive dust.

Minimize lighting impacts. Night lighting, when in use, shall be designed, installed, and maintained to prevent side casting of light towards surrounding fish or wildlife habitat.

Avoid use of toxic substances. Soil bonding and weighting agents used for dust suppression on unpaved surfaces shall be non-toxic to wildlife and plants.

Minimize noise and vibration impacts. The Applicant shall conform to noise requirements specified in the noise analysis of this EIR to minimize noise to off-site habitat.

Water. Potable and non-potable water sources such as tanks, ponds, and pipes shall be covered or otherwise secured to prevent animals (including birds) from entering. Prevention methods may include storing water within closed tanks or covering open tanks with 2-centimeter netting. Dust abatement shall use the minimum amount of water on dirt roads and construction areas to meet safety and air quality standards. Water sources (e.g., hydrants, tanks, etc.) shall be checked periodically by biological monitors to ensure they do not create puddles.

Trash. All trash and food-related waste shall be contained in vehicles or covered trash containers inaccessible to ravens, coyotes, or other wildlife and removed from the site regularly.

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Workers. Workers shall not feed wildlife or bring pets to the Project site. Except for law enforcement personnel, no workers or visitors to the site shall bring firearms or weapons.

Wildlife netting or exclusion-fencing. The Applicant may install temporary or permanent netting or exclusion fencing around equipment, work areas, or Project facilities to prevent wildlife exposure to hazards such as toxic materials or vehicle strikes.-or prevent birds from nesting on equipment or facilities. Bird deterrent netting shall be maintained free of holes and shall be deployed and secured on the equipment in a manner that, insofar as possible, prevents wildlife from becoming trapped inside the netted area or within the excess netting. If fencing is not used, openings in stored equipment that would allow for entry of wildlife shall be secured with tape or other covering to prevent entrapment. The biological monitor shall perform inspections of equipment prior to use to ensure that no birds have nested on stored equipment and that no wildlife has become entrapped. netting (if installed) twice daily, at the beginning and close of each workday. The biological monitor will inspect exclusion fence (if installed) weekly.

Wildlife entrapment. Project-related excavations, <u>trenches</u>, <u>auger holes</u>, and water tanks shall be secured or covered to prevent wildlife entry, entrapment, and drowning. Holes and trenches shall be backfilled, securely covered, or fenced. Open water tanks shall be covered or shall have other means of exit provided to prevent wildlife from drowning. Excavations that cannot be fully secured shall incorporate wildlife ramp or other means to allow trapped animals to escape. At the end of each workday, a biological monitor shall ensure that excavations and water tanks have been secured or provided with appropriate means for wildlife escape.

All pipes or other construction materials or supplies shall be covered or capped in storage or laydown areas. Netting shall be installed over porta-potty vents. No pipes or tubing shall be left open either temporarily or permanently, except during use or installation. Any construction pipe, culvert, or other hollow materials shall be inspected for wildlife before it is moved, buried, or capped.

Dead or injured wildlife shall be reported <u>immediately</u> to USFWS (for federally listed species and migratory birds) and CDFW (for all wildlife) and/or the local animal control agency, as appropriate, by the Lead Biologist (or the Applicant's compliance manager during O&M). Procedures for handling of dead or injured wildlife shall be outlined in a Wildlife Protection Plan, in coordination with CDFW. A Special Purpose Utility Permit (SPUT) would be acquired from the USFWS prior to collection of migratory bird carcasses. A biological monitor shall safely move the carcass out of the road or work area if needed and dispose of the animal as directed by the agency. If an animal is entrapped, a biological monitor shall free the animal if feasible, work with construction crews to free it in compliance with safety requirements, or work with animal control, <u>USFWS</u>, or CDFW to resolve the situation.

Pest control. No anticoagulant rodenticides, such as Warfarin and related compounds (indandiones and hydroxycoumarins), may be used within the Project site, on off-site Project facilities and activities, or in support of any other Project activities.

Measures for Crotch bumble bee

- All on-site personnel shall be required to attend the Worker Environmental Awareness Training Program, as detailed in MM BIO-2, that includes education program on identification and avoidance of Crotch bumble bee and nests.
- If a live individual is detected during pre-construction surveys, or incidentally, the Applicant shall take adaptive management actions in coordination with CDFW, considering CDFW guidance and best management practices at the time of the occurrence.
- Pre-construction surveys would include inspection for Crotch bumble bee nests. If any are located, CDFW would be notified and a no-disturbance buffer of at least 50 feet would be demarcated as determined by the Lead Biologist, in coordination with CDFW.
- **MM BIO-7 Desert Tortoise Protection.** No desert tortoise may be handled or relocated without authorization from USFWS and CDFW. The Applicant shall obtain incidental take authorization from both agencies to address any potential take of desert tortoise, including authorization to handle or translocate desert tortoise. In addition to implementing the actions to be taken during construction, the Applicant shall prepare and implement a Desert Tortoise Protection Plan and a Raven Management Plan, with contents as defined herein.

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REQUIRED ACTIONS TO PROTECT TORTOISE DURING CONSTRUCTION

The following shall be implemented:

- Inspect for tortoises under vehicles. The ground beneath vehicles parked outside of desert tortoise exclusion fencing will be inspected immediately prior to the vehicle being moved. If a tortoise is found beneath a vehicle, the vehicle will not be moved until the desert tortoise leaves of its own accord.
- Protect tortoises on roads. The Applicant shall specify and enforce maximum vehicle speed limits as specified in the Traffic Control Plan, to minimize risk of vehicle strikes. If a tortoise is observed on or near the road accessing a work area, vehicles will stop to allow the tortoise to move off the road on its own.
- Tortoise Observations. Any time a tortoise is observed within or near a work site, Project work activities will proceed only at the site and within a suitable buffer area after the tortoise has either moved away of its own accord, or if it has been trans-located off the site under authorization by the USFWS and CDFW. If a tortoise is observed outside of exclusion fencing, construction will stop, and the tortoise shall be allowed to move out of the area on its own. If a tortoise or tortoise burrow is observed within the exclusion fencing, construction in the vicinity will stop, pending translocation of the tortoise or other action as authorized by USFWS and CDFW.
- Reporting of dead or injured specimens. Upon locating a dead or injured tortoise, the Applicant or its agent will immediately notify the Palm Springs Fish and Wildlife Office by email or telephone. Written notification must be made within five days of the finding, both to the appropriate USFWS field office and to the USFWS's Division of Law Enforcement. The information provided must include the date and time of the finding or incident (if known), location of the carcass or injured animal, a photograph, cause of death, if known, and other pertinent information.
- Tortoise compensatory mitigation. Compensatory mitigation for desert tortoise shall include suitable habitat at a minimum of 1:1 ratio for impacts to desert tortoise suitable habitat and a ratio of 5:1 for impacts to desert tortoise critical habitat, in coordination with USFWS, CDFW, and in compliance with any ITPs.

PREPARE DESERT TORTOISE PROTECTION AND RELOCATION PLAN

7-9

<u>To ensure safe handling and translocation in accordance with applicable wildlife agency</u> <u>guidance, d</u>Desert tortoises shall be handled or translocated according to a Desert Tortoise <u>Protection and</u> Relocation Plan, pending approval by both agencies<u>to be reviewed</u> <u>and approved by USFWS, CDFW, BLM, and Riverside County</u>.

The Desert Tortoise Protection and Relocation Plan shall be developed in accordance with and be consistent with the Desert Tortoise (Mojave Population) Field Manual (USFWS, 2009); Revised Recovery Plan for the Mojave Population of the Desert Tortoise (USFWS, 2011a); Translocation of Mojave Desert Tortoises from Project Sites: Plan Development Guidance (USFWS, 2020a), and Health Assessment Procedures for the Mojave Desert Tortoise (USFWS, 2019b).

Relocated and translocated tortoises will be transmittered and monitored, as described below. All relocated or translocated desert tortoises will be monitored once within 24 hours of release; twice weekly for the first two weeks after release; weekly during the more-active season; biweekly during the less-active season; and for a duration agreed upon by Riverside County, BLM, USFWS, and CDFW from date of release.

PLAN REQUIREMENTS

Consistent with DRECP CMAs LUPA-BIO-COMP-1: (Compensation); LUPA-BIO-IFS-1: (Individual Focus Species [IFS]: Desert Tortoise [activities within desert tortoise linkages]); LUPA-BIO-IFS-2: (new roads in Tortoise Conservation Areas [TCAs]), LUPA-BIO-IFS-3: (culvert sizing for desert tortoise), LUPA-BIO-IFS-4: (desert tortoise exclusion fencing), LUPA-BIO-IFS-5: (desert tortoise monitoring for initial clearing and grading), LUPA-BIO-IFS-6: (desert tortoise monitoring during geotechnical boring), LUPA-BIO-IFS-7: (desert tortoise monitoring during geotechnical testing), LUPA-BIO-IFS-8: (inspections for desert tortoise under vehicles), LUPA-BIO-IFS-9: (speed limits in desert tortoise habitat), LUPA-VPL-BIO-IFS-1: (site activities in previously disturbed areas in desert tortoise linkages and TCAs), DFA-BIO-IFS-1: Individual Focus Species (IFS) (protocol surveys in desert tortoise habitat), DFA-BIO-IFS-2 (setback requirements), DFA-BIO-IFS-3: Desert Tortoise (desert tortoise translocation), the Desert Tortoise Protection and Relocation Plan shall include:

Authorized <u>p</u>**Personnel** <u>titles</u> <u>and</u> <u>**R**</u><u>r</u><u>oles</u><u>, and</u> <u>Titles</u>_The Applicant shall designate a USFWS Authorized Biologist to implement the desert tortoise protection measures. The Authorized Biologist may (or may not) also serve as the Project's Lead Biologist.

The Applicant shall employ one or more desert tortoise monitors who are qualified to conduct desert tortoise clearance surveys and who will be on site during all construction. The desert tortoise monitors' qualifications will be subject to review and approval by Riverside County and the BLM. Qualifications may include work as a compliance monitor on a project in desert tortoise habitat, work on desert tortoise trend plot or transect surveys, conducting surveys for desert tortoise, or other research or field work on desert tortoise. Attendance at a training course endorsed by the agencies (e.g., Desert Tortoise Council tortoise training workshop) is a supporting qualification.

The Authorized Biologist shall direct one or more desert tortoise monitors to conduct preconstruction clearance surveys for each work area, watch for tortoises wandering into the construction areas, check under vehicles, and examine excavations and other potential pitfalls for entrapped animals. The Authorized Biologist shall be responsible for overseeing compliance with desert tortoise protective measures and for coordination with resource agencies. The Authorized Biologist will have the authority to halt any Project activities that may risk take of a desert tortoise or that may be inconsistent with adopted mitigation measures or permit conditions. Neither the Authorized Biologist nor any other Project employee or contractor may bar or limit any communications between Riverside County, BLM, CDFW, or USFWS staff and any Project biologist, biological monitor, or contracted biologist. Upon notification by the desert tortoise monitor or another biological monitor of any noncompliance the Authorized Biologist shall ensure that appropriate corrective action is taken.

The following incidents will require immediate cessation of any Project activities that could harm a desert tortoise: (1) location of a desert tortoise within a work area; (2) imminent threat of injury or death to a desert tortoise; (3) unauthorized handling of a desert tortoise, regardless of intent; (4) operation of construction equipment or vehicles outside a Project area cleared of desert tortoise, except on designated roads; and (5) conducting any construction activity without a biological monitor where one is required.

Worker training. Prior to the onset of construction activities, a desert tortoise education program will be presented by the Authorized Biologist to all personnel who will be present on Project work areas. Following the onset of construction, any new employee will be required to formally complete the tortoise education program prior to working on site. The following specifications will be incorporated into the WEAP training, identified in Mitigation Measure BIO-2. At a minimum, the tortoise education program will cover the following topics:

- (a) <u>A detailed description of the desert tortoise, including color photographs;</u>
- (b) <u>The distribution and general behavior of the desert tortoise;</u>
- (c) <u>Sensitivity of the species to human activities;</u>
- (d) <u>The protection the desert tortoise receives under the state and federal Endangered</u> <u>Species Acts, including prohibitions and penalties incurred for violation;</u>
- (e) <u>The protective measures being implemented to conserve the desert tortoise during</u> <u>construction activities; and</u>
- (f) Procedures and a point of contact if a desert tortoise is observed on site.
- (g) Actions to Protect Desert Tortoise. The Applicant shall be responsible for implementing the following requirements, under direction of the Lead Biologist.

Plan requirements for pre-construction and clearance surveys and use of exclusion fencing. Prior to the construction of solar facilities, temporary or permanent desert tortoise exclusion fencing will be installed around the entirety of the approved solar field and storage facility construction areas, as well as parking and laydown areas. Fenced areas would be surveyed and monitored to ensure desert tortoise are avoided.

<u>Construction phase tortoise exclusion fencing</u>. Exclusion fencing will adhere to USFWS design guidelines in the Desert Tortoise Field Manual (USFWS, 2009), where applicable. The exact location of different fencing types shall be determined in coordination with the USFWS. Permanent fencing shall be constructed with durable materials (i.e., 16 gauge or heavier) suitable to resist desert environments, alkaline and acidic soils, wind, and erosion. Temporary fencing would be built with the same materials, however it would not be trenched or buried but bent inwards flush with the ground surface.

Tortoise exclusion fencing shall include a "cattle guard" or desert tortoise exclusion gate at each entry point. This gate shall remain closed at all times, except when vehicles are entering or leaving. If it is deemed necessary to leave the gate open for extended periods of time (e.g., during high traffic periods), the gate may be left open as long as a biological monitor is present to monitor for tortoise activity in the vicinity.

7-9

Preconstruction <u>surveys</u> Clearance. No more than 10 days prior to the initiation of fence construction, a pre-activity tortoise survey shall be conducted along the fence line installation area using techniques that provide 100% visual coverage of the disturbance area. Transects will be spaced 15 feet (5 meters) apart, and within an additional buffer area of 100 feet (30 meters) transects would be spaced 10 meters apart.

Clearance will be considered complete after two successive 100 percent coverage surveys have been conducted without finding any desert tortoises.

Clearance surveys must be conducted during the active season for desert tortoises (April <u>1</u> through May<u>31</u> or September<u>1</u> through October<u>31</u>), unless authorized by CDFW and USFWS. If a tortoise or an occupied tortoise burrow is located during clearance surveys, work activities will proceed only at the site and within a suitable buffer area after the tortoise has either moved away of its own accord, or if it has been translocated off the site under authorization by the USFWS and CDFW.<u>The buffer distance shall be 100 feet</u> during the non-active season and at least 250 feet during the active season (September-October and April-May), unless otherwise directed in the CDFW Incidental Take Permit (ITP).

Worker Training. The following specifications will be incorporated into the WEAP training, identified in Mitigation Measure BIO-2. Prior to the onset of construction activities, a desert tortoise education program will be presented by the Authorized Biologist to all personnel who will be present on Project work areas. Following the onset of construction, any new employee will be required to formally complete the tortoise education program prior to working on site. At a minimum, the tortoise education program will cover the following topics:

A detailed description of the desert tortoise, including color photographs;

The distribution and general behavior of the desert tortoise;

Sensitivity of the species to human activities;

The protection the desert tortoise receives under the state and federal Endangered Species Acts, including prohibitions and penalties incurred for violation;

The protective measures being implemented to conserve the desert tortoise during construction activities; and

Procedures and a point of contact if a desert tortoise is observed on site.

Construction phase tortoise exclusion fencing. Prior to construction of solar facilities, temporary or permanent desert tortoise exclusion fencing will be installed around the work areas. The fence will adhere to USFWS design guidelines, where applicable. The Authorized Biologist will <u>shall</u> direct a clearance survey before the tortoise fence is enclosed to ensure no tortoises are in the work area. Any potentially occupied burrows will be avoided until monitoring or field observations (e.g., with a motion activated camera or fiber optic mounted video camera) determines absence. If live tortoises or an occupied tortoise burrow are identified in the work area, tortoises shall be relocated

under authorization by USFWS and CDFW or allowed to leave on their own accord before enclosing the fence. The fence shall be either continuously monitored prior to closure, or clearance surveys shall be repeated prior to closure after tortoises are removed.

7-9

Fence monitoring. A biological monitor shall be present during all fence installation activities to inspect the work area and under vehicles for desert tortoise prior to ground disturbance or vehicle access to ensure that no tortoises have moved into the work area. If a desert tortoise moves into the work area, activities will halt until it moves out of the work site on its own accord or is moved from harm's way by an Authorized Biologist.

<u>Fence inspections</u>. Exclusion fencing will be inspected daily for the first two weeks following installation, to monitor for desert tortoise exhibiting fence-walking behavior. Once installed If none are observed, exclusion fencing will be inspected weekly during desert tortoise active seasons (April 1 to May 31 and September 1 to October 31), at least monthly during non-active seasons (June to September, November to March), and following all rain events, and corrective action taken if needed to maintain it. Tortoise exclusion fencing will include a "cattle guard" or desert tortoise exclusion gate at each entry point. This gate will remain closed at all times, except when vehicles are entering or leaving. If it is deemed necessary to leave the gate open for extended periods of time (e.g., during high traffic periods), the gate may be left open as long as a biological monitor is present to monitor for tortoise activity in the vicinity.

Unfenced work areas. As an alternative to exclusion fencing, any work conducted in an area that is not fenced to exclude desert tortoises (e.g., gen-tie tower sites) must be monitored by a biological monitor who will stop work if a tortoise enters the work area. Work activities will proceed only at the site and within a suitable buffer area after the tortoise has either moved away of its own accord, or if it has been translocated off the site under authorization by the USFWS and CDFW. Work sites with potential hazards to desert tortoise (e.g., auger holes, steep-sided depressions) that are outside of the desert tortoise exclusion fencing will be fenced by installing exclusionary fencing, covered, or will not be left unfilled overnight.

<u>Clearance surveys</u>. An Authorized Biologist shall direct a clearance survey before the tortoise fence is enclosed to ensure no tortoises are in the work area. After exclusion fencing is fully installed, a desert tortoise pre-construction clearance survey shall be con-ducted within each of the enclosed, fenced areas. Per the USFWS Field Manual (2009), clearance surveys must consist of at least 2 consecutive surveys of the site. Clearance will be considered complete after two successive 100 percent coverage surveys have been conducted without finding any desert tortoises. If active desert tortoise sign is observed during the second survey pass, a third pass may be required after consultation with the agencies. Surveys will be led by Authorized Biologists experienced with searching for desert tortoise, potential burrows, scat, and carcasses. Surveys will consist of 100 percent visual coverage using pedestrian belt transects spaced at 5-meter intervals. An additional 500-foot (150 meter) buffer outside the Project boundary will also be surveyed with pedestrian belt transects spaced at 10 meters apart to identify any potentially active burrows that may be indirectly affected by construction activities.

<u>Clearance surveys must be conducted during the active season for desert tortoises (April 1 through May 31 or September 1 through October 31), unless authorized by CDFW and USFWS.</u>

During the first survey pass, all sign (scat, carcasses, tracks, etc.) shall be removed from the clearance area, which will prevent reidentification of the same tortoise sign in

proposed work areas. Desert tortoise carcasses may be returned to USFWS or CDFW, used for educational purposes, or relocated in the natural environment outside the work area fence line, as coordinated with resource agencies.

7-9

If a tortoise is located during clearance surveys, work activities will proceed only after the tortoise has either moved away of its own accord, or if it has been relocated or translocated off the site under authorization by the USFWS and CDFW. The buffer distance for work activities shall be 100 feet during the non-active season and at least 250 feet during the active season (September-October and April-May), unless otherwise directed in the CDFW Incidental Take Permit (ITP).

Any potentially occupied burrows will be avoided until monitoring or field observations (e.g., with a motion-activated camera or fiber-optic mounted video camera) determines absence. The fence shall be either continuously monitored prior to closure, or clearance surveys shall be repeated prior to closure after tortoises are removed.

Plan requirements for handling of desert tortoise.

Only persons permitted by the USFWS and CDFW under the Desert Tortoise Activity Form (i.e., streamlined Section 7 consultation process) or Incidental Take Permit shall handle desert tortoises. All desert tortoises will be handled by an Authorized Biologist in accordance with the Desert Tortoise Field Manual (2009) and the USFWS Revised Translocation Guidance (2020). Authorized Biologists shall handle tortoises in accordance with approved disinfection and sanitation techniques and procedures defined by the Desert Tortoise Health Assessment Procedures (USFWS, 2019a).

Tortoises shall be handled according to seasonal and temperature constraints, where any handling of desert tortoises would always be below the temperature of 95°F. During handling, the desert tortoise will be kept in a shaded environment that does not exceed 95°F and will not be released until ambient air temperatures fall below 95°F.

Biologists will maintain a record of all desert tortoises identified and handled on the Project site, including photographs, time and location of handling, temperature, condition and measurements of the individual, transmitter information, and information on nests, eggs, and voiding of bladder. Should a tortoise void or defecate between capture and release, it shall be thoroughly rehydrated and rinsed to remove any odors that could attract potential predators. Any desert tortoise handling event shall be completed within 30 minutes or less (not including rehydrating a desert tortoise that has voided).

The Plan shall detail methods for attaching transmitters to desert tortoises that will be relocated, translocated, or monitored. The Applicant will consult with the USFWS Desert Tortoise Recovery Office to coordinate transmitter frequencies. Radio transmitters and antennae must be mounted by an Authorized Biologist so as not to impede growth or the daily activities of the tortoise.

The Plan shall detail nest and egg handling procedures. Any nest that is found will be carefully excavated by hand by an Authorized biologist. A nest will be prepared at the release site with the same depth and location in relation to the burrow entrance as the original nest. The eggs will be transferred to the new nest, maintaining their original orientation and replaced so that they touch one another. Eggs will be gently covered with soil from which cobbles and pebbles have been removed so that all the air spaces around the eggs are filled.

To the greatest extent practicable, bromating (hibernating) tortoises will not be relocated or translocated. If a bromating desert tortoise cannot be avoided by Project activities or be passively relocated, the tortoise may be captured and released in coordination with USFWS and CDFW.

7-9

<u>Procedures for relocation, passive exclusion, and translocation of desert tortoise and</u> <u>identification and description of translocation recipient sites.</u>

Relocation. Desert tortoises less than 160 mm will be relocated as soon as possible after detection. Adult desert tortoises (more than 160 mm) identified for relocation will be transmittered and left in situ or within on-site pens following health assessments, data collection, and monitoring, until they can be transported. The Plan shall detail the construction of on-site pens, in accordance with USFWS guidance (USFWS, 2011). Relocation and monitoring of tortoises <100 mm will be coordinated with BLM, USFWS, and CDFW on a case-by-case basis at the time of detection. Desert tortoises will be relocated by an Authorized Biologist within 300 meters of their capture locations in suitable habitat, within adjacent BLM land or private land owned by the Applicant.

Passive exclusion. Passive exclusion shall be prioritized on all linear Project components and in unfenced work areas by using a biological monitor to accompany construction crews and equipment in the field. Construction or maintenance activities will cease if a desert tortoise is detected within the work area or if a tortoise is in imminent danger, until the tortoise moves a safe distance out of the work area. Desert tortoises would be relocated from unfenced work areas if a tortoise does not leave a work area and no other alternate work site is available for crews or an occupied burrow is located within or adjacent to a work area that cannot be avoided.

A Biological Monitor would monitor initial clearing and grading activities for any tortoises missed during the clearance survey. Excavations with steep walls shall have a wildlife escape ramp and be fully covered at the end of the workday to prevent entrapment. After vegetation is fully removed within fenced areas, weekly spot checks shall be conducted to ensure that there are no desert tortoises within the construction area for the duration of the construction phase.

Translocation. If a desert tortoise is found and is not in an area appropriate for relocation (i.e., suitable habitat does not occur within a 1.5-kilometer buffer surrounding the potential release point), the tortoise will be translocated. Translocations shall occur during the tortoise active season.

The Plan shall detail methods and procedures for translocation, including health assessments, transportation requirements, and identification of comparable release locations, in accordance with the Desert Tortoise Field Manual (USFWS, 2009). Per the USFWS Translocation Guidance (2020), a translocation review package, incorporating the penultimate health assessment in the month before the scheduled translocation, shall be submitted to Riverside County, BLM, USFWS, and CDFW for approval of the proposed disposition of each tortoise on the Project site.

Recipient sites shall be approved in consultation with BLM, USFWS, and CDFW, and shall be comprised of suitable desert tortoise habitat with modelled high desert tortoise occupancy (Nussear, 2009). The recipient site shall be sited within desert tortoise critical habitat, unless otherwise directed by the agencies.

Plan requirements for construction monitoring and reporting

7-9

<u>Construction monitoring and reporting</u>. During the construction phase, the Authorized <u>Biologist shall prepare daily records of desert tortoise observations and site inspections</u>. If at any time a desert tortoise is identified on the Project site, Riverside County, BLM, USFWS, and CDFW will <u>immediately</u> be notified.

Reporting for construction monitoring and implementation of the Plan shall be provided in weekly updates and monthly reporting to Riverside County, BLM and USFWS, as well as quarterly reporting to CDFW. Annual and final reports shall be submitted to Riverside County, BLM, USFWS, and CDFW, as required. Summaries of compliance tortoise surveys, relocation, translocation, and monitoring activities conducted during the previous calendar year will be included.

Translocation monitoring and reporting. Telemetry-based monitoring shall be implemented for at least six months to document short-term survival of small numbers of translocated tortoises. The Applicant will consult with Riverside County, BLM, USFWS, and CDFW to determine the appropriate monitoring duration and methodology. All relocated or translocated desert tortoises will be monitored once within 24 hours of release; twice weekly for the first two weeks after release; weekly during the more-active season; biweekly during the less-active season; and for a duration agreed upon by Riverside County, BLM, USFWS, and CDFW from date of release. Health assessments shall be performed twice-annually.

Reporting for translocation shall be provided in weekly updates and monthly reporting to Riverside County, BLM and USFWS, as well as quarterly reporting to CDFW. Annual and final reports will be submitted to Riverside County, BLM, USFWS, and CDFW. Summaries of all compliance tortoise translocation, and post-translocation, effectiveness, and health monitoring activities conducted during the previous calendar year will be included.

Plan requirements for O&M, decommissioning, and adaptive management

<u>O&M.</u> Operation phase tortoise monitoring or exclusion. At the Applicant's discretion, and in consultation with resource agencies, permanent desert tortoise exclusion fencing may be installed around each solar facility site, or. If permanent desert tortoise exclusion fencing is not installed, the Applicant may prepare and implement a monitoring and avoidance program to ensure no take of desert tortoise during O&M, while allowing wildlife (possibly including desert tortoise) to move through the facilities uninjured.

Tortoises observed by personnel within the fence line of the solar facility components during routine maintenance activities or along the main access road will be relocated or translocated by permitted biologists, in coordination with USFWS and CDFW. Relocated tortoises will be moved to suitable habitat within 300 meters of where it was found, outside of the fence line within adjacent BLM land or private land owned by the Applicant. Translocated tortoises will be moved to the approved recipient site.

For any routine maintenance or emergency/unexpected repairs that require surface disturbance or heavy equipment desert tortoise shall be allowed to move out of harm's way of its own accord, or the tortoise will be relocated by an Authorized Biologist.

In areas where wildlife-friendly fencing is implemented, temporary exclusion fencing may be removed only after vegetation is successfully re-established and habitat is suitable to support desert tortoise, in coordination with USFWS. If used, wildlife-friendly fencing will be installed around solar arrays in the Pinto Wash Linkage and areas adjacent to desert dry wash woodland that provide higher quality desert tortoise habitat. The security fence would leave a 6- to 8-inch gap between the lower fence margin (rail or mesh) and the ground and the bottom of the fence fabric (chain-link or similar material) would be wrapped upward so that no sharp edges are exposed along the lower fence margin. The fencing would be inspected at least once per quarter by a qualified biologist to identify areas of sand deposits at the fence line or damage to fencing. During the fall and spring quarter, inspections would be performed during active desert tortoise season.

7-9

Decommissioning. After decommissioning, fencing shall be removed. Desert tortoise conservation measures shall be in place and the decommissioning activities shall be monitored for the presence of desert tortoise and desert tortoise sign. Observations of desert tortoise shall be reported and protection measures shall be coordinated with USFWS and CDFW.

Adaptive management. Adaptive management measures would be implemented if there is evidence of Project-related disturbance to or increased risk to desert tortoise, and where initial protection methods have been deemed ineffective based on monitoring results. Remedial actions may include repairs or modifications to fencing, additional surveying, or additional monitoring and inspections. Adaptive management measures used shall be reported in the annual report.

- Tortoises under vehicles. The ground beneath vehicles parked outside of desert tortoise exclusion fencing will be inspected immediately prior to the vehicle being moved. If a tortoise is found beneath a vehicle, the vehicle will not be moved until the desert tortoise leaves of its own accord.
- Tortoises on roads. If a tortoise is observed on or near the road accessing a work area, vehicles will stop to allow the tortoise to move off the road on its own.
- Tortoise Observations. Any time a tortoise is observed within or near a work site, Project work activities will proceed only at the site and within a suitable buffer area after the tortoise has either moved away of its own accord, or if it has been translocated off the site under authorization by the USFWS and CDFW. If a tortoise is observed outside of exclusion fencing, construction will stop, and the tortoise shall be allowed to move out of the area on its own. If a tortoise or tortoise burrow is observed within the exclusion fencing, construction in the vicinity will stop, pending translocation of the tortoise or other action as authorized by USFWS and CDFW.
- Dead or Injured Specimens. Upon locating a dead or injured tortoise, the Applicant or its agent will immediately notify the Palm Springs Fish and Wildlife Office by email or telephone. Written notification must be made within five days of the finding, both to the appropriate USFWS field office and to the USFWS's Division of Law Enforcement. The information provided must include the date and time of the finding or incident (if known), location of the carcass or injured animal, a photograph, cause of death, if known, and other pertinent information.

PREPARE A RAVEN MANAGEMENT PLAN

The Applicant <u>will_shall</u> develop and implement a Raven Management Plan to address activities that may occur during the pre-construction, construction, decommissioning, and O&M phases of the Project that may attract common ravens (*Corvus corax*), a nuisance species that is a subsidized predator of desert tortoises and other sensitive species in the Project vicinity.

The Applicant will submit payment to the Project sub-account of the Renewable Energy Action Team (REAT) Account held by the National Fish and Wildlife Foundation (NFWF) to support the Service's Regional Raven Management Program. The one-time fee will be as described in the cost allocation methodology, or more current guidance as provided by the Service or CDFW. The contribution to the regional raven management plan will be \$105 per acre impacted.

7-9

The Plan shall be prepared in accordance with USWFS guidelines in Management of Conflicts Associated with Common Ravens in the United States (USFWS, 2023). If raven monitoring indicates an increase in local raven activity attributed to the Project, measures shall be implemented to deter ravens from the site, such as additional worker education, more stringent restrictions on water use or trash disposal, installation of nest-prevention or roost-prevention devices on Project facilities, or specific measures to "haze" ravens from Project facilities or subsidies in coordination with USFWS and CDFW.

PLAN REQUIREMENTS

<u>Consistent with DRECP CMA LUPA-BIO-6 (Subsidized Predators Standards)</u>, The measures contained in the R the Raven Management Plan will be designed developed and implemented to:

- (a) Identify conditions associated with the Project that might provide raven subsidies or attractants, including water, anthropogenic food sources, roadkill for scaven-gers, trash, and perches.
- (b) Describe management practices and control measures to avoid or minimize conditions and subsidies that might increase raven numbers and predatory activities, such as proper and regular disposal of food waste and trash using raven proof containers; removing road-killed animals; securing water thanks from leaks; using the minimum amount of water needed for dust control, panel washing, and irrigation; and use of BMPs for perching and roosting per current standards and practices, including APLIC guidelines (2006, 2012).
- (c) Describe monitoring during construction and operations, including <u>roles and</u> <u>responsibilities for monitoring biologists, monitoring requirements for food and</u> <u>water subsidies, monitoring requirements for raven presence and nesting, and</u> methods to identify individual ravens that prey on desert tortoises.
- (d) <u>Describe reporting requirements for monitoring results, including annual moni-</u> toring reports to be submitted to USFWS, CDFW, BLM, and Riverside County.
- (e) The Applicant will submit payment to the Project sub account of the Renewable Energy Action Team (REAT) Account held by the National Fish and Wildlife Foundation (NFWF) to support the Service's Regional Raven Management Program. The one-time fee will be as described in the cost allocation methodology, or more current guidance as provided by the Service or CDFW. The contribution to the regional raven management plan will be \$105 per acre impacted.
- MM BIO-8 Bird and Bat Conservation Strategy (BBCS). Bird and bat fatality and injury monitoring is being performed at the neighboring Oberon, Arica, and Victory Pass Projects. The approved BBCS plans for these projects include mortality monitoring and sampling methods, sampling design, and survey and data collection protocols. The Applicant shall use the results of post-construction bird and bat monitoring at the Oberon, Arica, and Victory Pass Projects to inform actions to be taken at the Easley Project, focused on the

development of adaptive management measures that would minimize impacts and mortality to avian and bat species.

7-9

The Applicant will-shall prepare and implement <u>a</u> the final-BBCS that acknowledges the ongoing monitoring at other projects. The BBCS shall be, focused on the implementation of adaptive management measures that may be required depending on monitoring results at the other projects. Adaptive management measures shall be developed in accordance consultation with USFWS based on the results of on-going monitoring and current standards and guidelines. Available guidelines include USFWS Considerations for Avian and Bat Protection Plans (USFWS, 2010). These measures wouldto avoid or and minimize take of migratory birds birds and bats that may nest on the site or on the Project site that may be vulnerable to injury or mortality on the Project site and/or collision with Project components (IP Easley, 2023).

The plan shall be crafted to meet the following standard: If impacts to avian species are documented at Oberon, Arica, Victory Pass, and Easley Projects and these impacts are shown to result in a substantial, long-term reduction in the demographic viability of the population of the species in question, then the Applicant would coordinate with USFWS and CDFW to determine if adaptive management, as described below, must be implemented to reduce Project related impacts. Over the course of construction and O&M, fatality thresholds and future conservation measures may be subject to revision in coordination with USFWS and CDFW as new information is obtained.

PLAN REQUIREMENTS

<u>Consistent with DRECP CMAs LUPA-BIO-16 (Activity-Specific Bird and Bat CMAs) and LUPA-BIO-17 (Activity-Specific Bird and Bat CMAs BBCS), the Plan shall include:</u>

- <u>A description of bird and bat species in the Project area;</u>
- A project-specific risk assessment that addresses potential for take, based on threats to birds and bats from the Project, including collision, electrocution, territory abandonment, nest and roost site disturbance, habitat loss and fragmentation, disturbance from human presence, and predator subsidies, in accordance with USFWS guidelines (USFWS, 2010);
- A description of the ongoing monitoring occurring at the Oberon, Arica, and Victory Pass Projects and the findings of these programs as of the date of Plan preparation.
- A description of the monitoring that will occur at the Project site. Monitoring efforts will be designed to ensure that birds and bats are identified and avoided on the Project site, and that Project related risks are managed to detect and avoid injury and mortality.
- A description of how the adaptive management actions would be developed and a list of potential adaptive management measures that could be implemented if project impacts to any avian species are shown to be occurring at Oberon, Arica, Easley, and Victory Pass and these impacts appear likely to result in a substantial, long-term reduction in the demographic viability of the population of the species in question. Adaptive management measures may include passive avian diverter installations, the use of sound, light or other means to discourage site use consistent with legal requirements, on site habitat management or control measures consistent with applicable legal requirements, or modification to support structures to exclude nesting birds.

A requirement that adaptive management measures be implemented until monitoring data indicates that mortality has not increased due to operation of the Project; and that there is not a substantial reduction in demographic viability for the species in question.

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It describes the proposed Project components, summarizes baseline data regarding birds and bats in the Project vicinity; assesses potential risks to those species that could result from Project construction, operation, and decommissioning; and describes conservation measures to be implemented in order to minimize those risks.

The Plan shall be prepared in accordance with guidelines recommended by the U.S. Fish and Wildlife Service (USFWS, 2010a and 2010b).

BIRD AND BAT COMPENSATION FEE

<u>Consistent with CMA LUPA-BIO-COMP-2 and in coordination with BLM, compensation for</u> <u>mortality impacts to bird and bat focus and special-status species shall be determined</u> <u>based on bird and bat mortality monitoring at the Project and a fee reassessed every five</u> <u>years to fund compensatory mitigation. The fee is calculated based on bird-use and</u> <u>estimated mortality from the Project, per a Resource Equivalency Analysis as directed in</u> <u>CMA LUPA-BIO-COMP-2.</u>

MM BIO-9Nesting Bird Management Plan (NBMP). The Applicant shall prepare and implement a
Nesting Bird Management Plan (NBMP) that will provide a framework for surveying,
management, and monitoring of bird nesting activities during the construction phase. The
NBMP shall be prepared in conjunction with the BBCS.

<u>The Project will either avoid vegetation clearing during the nesting season or conduct pre-</u> <u>construction nest surveys of potential habitat and implement no-disturbance buffer areas</u> <u>around active nests.</u> Over the course of construction and O&M, fatality thresholds and future conservation measures may be subject to revision in coordination with USFWS and <u>CDFW as new information is obtained.</u> The BBCS outlines an adaptive management process to address such revisions to monitoring.

The plan shall ensure that impacts to nesting birds are avoided and minimized through establishment of adequate buffers around active nests, as determined by a qualified biological monitor. Nest surveys shall be conducted for all Project activities throughout the nesting season, (beginning January 1 for raptors and hummingbirds and February 1 for other species, and continuing through August). Nest buffers shall be species-specific, ranging from 100 feet for small passerines to 500 feet for raptors, as defined by the California Public Utilities Commission Nesting Bird Working Group (2015).

		Minimum Buffers for Ground
<u>Avian Group (nest</u> type/location)	Species Potentially Nesting Within Easley Solar Project Site	Construction per Disturbance Level (feet)*
Waterfowl and rails	Canada goose, wood duck, mallard, cinnamon teal ruddy duck, Virginia rail, sora, American coot, pied-billed grebe	<u>, 150</u>
<u>Quail</u>	<u>California quail, Gambel's quail</u>	<u>150</u>
<u>Herons</u>	Great blue heron, great egret, snowy egret, cattle egret, black-crowned night-heron	<u>250</u>
Birds of prey (Category 1)	American kestrel, barn owl, western screech-owl	<u>300</u>

Default Buffers for Nests During Construction

<u>Avian Group (nest</u> <u>type/location)</u>	Species Potentially Nesting Within Easley Solar Project Site	Minimum Buffers for Ground Construction per Disturbance Level (feet)*
Birds of prey ² (Category 2)	<u>Cooper's hawk, red-tailed hawk, red-shouldered</u> hawk, great horned owl	<u>300</u>
Birds of prey (Category 3)	Turkey vulture, red-tailed hawk, white-tailed kite, northern harrier, long-eared owl	<u>500</u>
Shorebirds	Killdeer	200
Pigeons	Band-tailed pigeon	<u>150</u>
<u>Doves</u>	Mourning dove, white-winged dove, common ground-dove	<u>150</u>
<u>Roadrunners</u>	<u>Greater roadrunner</u>	<u>300</u>
<u>Nightjars</u>	Lesser nighthawk, common poorwill	<u>150</u>
<u>Swifts</u>	White-throated swift	<u>200</u>
<u>Hummingbirds</u>	Anna's hummingbird, Costa's hummingbird	<u>100</u>
<u>Woodpeckers</u>	Acorn woodpecker, ladder-backed woodpecker, Nuttall's woodpecker, downy woodpecker, northern flicker	<u>150</u>
Passerines (bridge, culvert, and building nesters)	Black phoebe, Say's phoebe, Ash-throated flycatcher, northern rough-winged swallow, cliff swallow, barn swallow, house finch (3)	<u>100</u>
Passerines (ground nesters, open habitats)	Horned lark, rock wren, western meadowlark, orange-crowned warbler, lark sparrow, grasshopper sparrow	<u>150</u>
Passerines (understory and thicket nesters)	Bushtit, Bewick's wren, blue-gray gnatcatcher (2), black-throated gray warbler, yellow-breasted chat, spotted towhee, black-chinned sparrow, sage sparrow, song sparrow, black-headed grosbeak, blue grosbeak, lazuli bunting, American goldfinch	<u>150</u>
Passerines (shrub and tree nesters)	Pacific-slope flycatcher, Cassin's kingbird, western kingbird (2), loggerhead shrike (2)*, Hutton's vireo, western scrub-jay, American crow, common raven, verdin, bushtit, black-tailed gnatcatcher, blue-gray gnatcatcher (2), cactus wren (2)*, American robin, northern mockingbird, Le Conte's thrasher, phainopepla, yellow warbler, black- throated gray warbler, yellow-breasted chat, California towhee, black-throated sparrow, song sparrow, summer tanager, great-tailed grackle, hooded oriole, Bullock's oriole, house finch (3), Lawrence's goldfinch, lesser goldfinch	<u>150 (300 for</u> <u>species marked</u> <u>with *)</u>
Passerines (open scrub nesters)	Loggerhead shrike (2)*, verdin, cactus wren (2)*, black-tailed gnatcatcher, wren tit, northern mockingbird, California thrasher, Le Conte's thrasher, Phainopepla, orange-crowned warbler, southern rufous-crowned sparrow, California towhee, black-throated sparrow, Brewer's blackbird, lesser goldfinch	150 (300 for species marked with *)
Passerines (tower nesters)	Western kingbird (2), common raven, house finch (3)	<u>150</u>
<u>Species not</u> covered under MBTA	Domestic waterfowl, including domesticated mal- lards, feral (rock) pigeon, ring-necked pheasant, chukar, Eurasian collared dove, spotted dove, parrots, parakeets, European starling, house sparrow	NA

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PLAN REQUIREMENTS

Consistent with DRECP CMAs LUPA-BIO-16 (Activity-Specific Bird and Bat CMAs), LUPA-BIO-17 (Activity-Specific Bird and Bat CMAs BBCS), DFA-BIO-IFS-1 (Individual Focus Species (IFS) (pre-construction/activity breeding season surveys for individual species – Bendire's thrasher, burrowing owl, golden eagle), DFA-BIO-IFS-2 (Setbacks for individual species – Bendire's thrasher, burrowing owl, golden eagle), LUPA-BIO-3 (Resource Setback Standards), LUPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species (pre-construction/activity nesting bird surveys)), and LUPA-BIO-IFS-12 (Burrowing Owl (setbacks and monitoring for burrows)) the Plan shall include:

- A site description detailing the suitability of the Project site for nesting birds, the species that may be encountered, and potential impacts to nesting birds
- Identification of qualifications, roles, and responsibilities of the Lead Biologist, biological monitors, and avian biologists
- Methods for preconstruction nest surveys and "sweeps" for nesting activity during construction, including the following:
 - <u>Pre-construction surveys for active nests shall be conducted by one or more qualified</u> <u>biological monitors at the direction of the Lead Biologist.</u>
 - <u>Nest surveys shall be conducted for all Project activities throughout the nesting</u> <u>season, identified here as beginning January 1 for raptors and hummingbirds and</u> <u>February 1 for other species, and continuing through August 15.</u>
 - Any nesting surveys involving passerines shall be conducted within 4 days of the initiation of any vegetation clearance or grading. Surveys involving raptors shall be conducted 7 days prior. An additional preconstruction survey shall be conducted immediately prior to initial Project related, ground disturbing activities to confirm no new nests are found. Surveys shall be repeated regularly during nesting season in nesting habitat.
 - Survey methods shall follow standard nest-locating techniques such as those described in Martin and Guepel (1993). Surveys may be systematic transects, meandering transects, or other methods which are determined by the Lead Biologist based on site-specific characteristics, performed in the Project site and a 1,200-foot buffer for raptors and a 300-foot buffer for other species surrounding each work area. If adjacent properties are not accessible to the biological monitors, the off-site nest surveys may be conducted with binoculars.
 - Detection of nests shall be reported using an Avian Nest Reporting Form developed in coordination with USFWS and CDFW.
- Establishment of exclusion buffers surrounding active nests and procedures for reduction of buffers including the following:
 - At each active nest, the biological monitor shall establish and mark a buffer area surrounding the nest where construction activities that could disrupt nesting behavior will be excluded.
 - <u>The default buffer distance established around a particular nest shall be species-specific, as developed by the California Public Utilities Commission Nesting Bird Working Group (2015), which ranges from 100 feet for passerines to 500 feet for raptors, in coordination with BLM, CDFW, and USFWS.</u>

• <u>Construction shall not occur within the designated nest exclusion buffer until the</u> <u>nest is no longer active (i.e., the young fledge from the nest, or the nest is abandoned).</u>

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- <u>Buffer reductions for special-status species shall not occur beyond the default distances without notification to BLM, USFWS, or CDFW, as appropriate, at least 3 calendar business days prior to the proposed buffer reduction. Any threatened or endangered listed species would require agency approval prior to any buffer reduction.</u>
- Procedures for active nest monitoring:
 - Active nest monitoring shall occur at a minimum of one to three times per week, depending on site-specific conditions.
 - Nests shall be monitored and mapped from a distance, and nest details will be recorded including species, nesting stage, and nesting outcome. Only the Lead Biologist or Avian Biologist/Monitor may enter the established buffer zone of a nest.
- Guidelines for nest removal:
 - If a bird nest must be removed during nesting season, the Applicant shall notify CDFW and USFWS and retain written documentation of the correspondence. Nests shall be removed only if they are inactive or if an active nest for a non-special status species presents a hazard to people or other wildlife. Removal of an active nest requires a permit from USFWS, which would be acquired, as needed. All nest removals shall be documented and described in the Annual Report.
- Reporting requirements:
 - <u>A nest survey and monitoring log shall document all new and monitored nests, including date, species of bird, nest status (e.g., nest building, incubating, fledglings present, or inactive); unique identification number of each nest monitored and coordinates (easting and northing); estimated date of nest establishment; estimated fledge date; description of and distance to nearby construction activities; relative noise level; description of any nearby non-Project activities (e.g., publicly accessible roads or trails); exclusion buffer size; and description of additional measures taken to protect nests.</u>
 - Logs and corresponding maps showing the disturbance limits, Project features, and current nest buffer data shall be updated weekly and made available to survey crews, construction personnel, and resource agencies.
 - <u>During construction, the Applicant shall provide an Annual Report detailing a</u> <u>summary of nesting activities on the Project site and survey buffers. The Applicant</u> <u>shall provide the annual reports to Riverside County, BLM, CDFW, and the USFWS</u> <u>during the last quarter following each of season of construction that occurs during</u> <u>the nesting season.</u>
- Adaptive Management:
 - Adaptive management measures shall be implemented if there is evidence of Project-related disturbance to nesting birds where initial protection methods (i.e., buffers) are determined to be ineffective. Triggers for adaptive management include agitation behavior (displacement, avoidance, and defense), increased vigilance behavior at nest sites, changes in foraging and feeding behavior, or nest site abandonment.

- Potential adaptive management measures shall be identified, which may include increased buffer width; additional worker education; modifying work intervals, or allowing specific work types that may be implemented on a case-by-case basis; cessation of construction activities that are the source of disturbance to the nesting bird; or installation of visual or sound barriers. Construction. As an Appendix to the BBCS, the Applicant will prepare and implement a Nesting Bird Management Plan (NBMP), to include nest surveys, avoidance, and protection. The Project will either avoid vegetation clearing during the nesting season or conduct pre-construction nest surveys of potential habitat and implement no disturbance buffer areas around active nests. Pre-construction surveys for active nests will be conducted by one or more biological monitors at the direction of the Lead Biologist. The biologists' qualifications will be subject to review and approval by CDFW, BLM, and Riverside County. Nest surveys will be conducted for all Project activities throughout the nesting season, identified here as beginning January 1 for raptors and hummingbirds and February 1 for other species, and continuing through August 15. Nest surveys will be completed at each work site no more than 7 days prior to initiation of site preparation or construction activities. Nest surveys will cover all work sites, including the solar facility and gen-tie, and surrounding buffer areas of 1,200 feet for raptors and 250 feet for other species. If adjacent properties are not accessible to the biological monitors, the off-site nest surveys may be conducted with binoculars.
- At each active nest, the biological monitor will establish and mark a buffer area surrounding the nest where construction activities that could disrupt nesting behavior will be excluded. The BBCS may identify species specific buffer distances or variable distances, depending on activity levels (e.g., driving past the nest to access work sites may be less disruptive than foundation construction). Alternately, buffer distances will be 1,200 feet for raptor nests and 250 feet for other species. The extent of nest protection will be based on proposed construction activities, species, human activities already underway when the nest is initiated (e.g., a house finch nest built in the eaves of an occupied structure would warrant less avoidance or protection than a loggerhead shrike nest build in native shrubland), topography, vegetation cover, and other factors. The avoidance and protection measures will remain in effect until the nest is no longer active.
- If for any reason a bird nest must be removed during the nesting season, the Applicant or its agent will notify the CDFW and USFWS and retain written documentation of the correspondence. Nests will be removed only if they are inactive, or if an active nest presents a hazard.
- The BBCS specifies monitoring and conservation measures to be implemented by the Applicant to document bird mortality or injury that may result from the operation of the Project, such as downed exhausted birds on the site that are unable to take flight or collision with Project components including gen-tie line collisions. The BBCS includes conservation measures and an adaptive management framework to be implemented through design and operations to minimize bird and bat fatalities at the solar facilities and gen-tie line. Provisions for a potential O&M monitoring and reporting program for bird and bat fatalities are included, based on monitoring at other active projects in the vicinity.
- **MM BIO-<u>109</u>** Gen-tie lines. Gen-tie line support structures and other facility structures shall be designed in compliance with current standards and practices to discourage their use by

raptors for perching or nesting (e.g., by use of anti-perching devices). This design also reduces the potential for increased predation of special-status species, such as the desert tortoise. Mechanisms to visually warn birds (permanent markers or bird flight diverters) shall be placed on gen-tie lines at regular intervals to prevent birds from colliding with the lines (APLIC, 2006, 2012). To the extent practicable, the use of guy wires shall be avoided because they pose a collision hazard for birds and bats. Necessary guy wires shall be clearly marked with bird flight diverters to reduce the probability of collision. Shield wires shall be marked with devices that have been scientifically tested and found to significantly reduce the potential for bird collisions. Gen-tie lines shall maintain sufficient distance between all conductors and grounded components to prevent potential for electrocution of the largest birds that may occur in the area (e.g., golden eagle and turkey vulture). They shall utilize non-specular conductors and non-reflective coatings on insulators.

MM BIO-191 Burrowing Owl Avoidance and Relocation. The Applicant will prepare and implement a Plan for wildlife relocation, including burrowing owl and other species (i.e., desert kit fox, American badger), as needed. The Plan must be reviewed and approved by Riverside County, BLM, CDFW, and USFWS prior to the start of ground-disturbing activities. Burrowing owl protection and relocation will incorporate meet the following requirements, in accordance with CDFW burrowing owl protocols (1993, 2012):

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- Pre-construction surveys for burrowing owls, possible burrows, and sign of owls (e.g., pellets, feathers, whitewash) will be conducted throughout each work area. Survey schedules will be coordinated with constructing the desert tortoise exclusion fence and the pre-construction desert tortoise clearance surveys. As needed, follow-up surveys will be conducted no more than 14 days prior to construction.
- Pre-construction surveys shall consist of walking parallel transects 7 to 20 meters apart, adjusting for vegetation height and density as needed, and noting any potential burrows with fresh burrowing owl sign or presence of burrowing owls.

If an active burrowing owl burrow is detected within any Project disturbance area, or within a 150-meter buffer of the disturbance area, a 150-meter (500-foot) exclusion buffer will be maintained while the burrow remains active or occupied. The buffer may be reduced to 50 meters (160 feet) during the non-breeding season (September 1 to January 31). Should any of the pre-construction surveys identify burrowing owl or active burrows within the solar facility, the Lead Biologist will coordinate with the Construction Contractor to implement avoidance and set-back distances. The size of the buffer may be adjusted based on the time-of-year, and level of disturbance in the area, after consultation with CDFW. The following provides exclusion buffer guidelines for nesting sites (CDFW, 2012); which may be adjusted in the field by the Designated Biologist/ Authorized Biologist, in consultation with agency personnel. –Disturbance of owls or occupied burrows during the breeding season (February 1 through August 31) will not be permitted.

	BUOW Buffer Distance (m) and Level of Disturbance*				
Time of Year	Low	<u>Medium</u>	<u>High</u>		
April 1 – Aug 15	<u>200</u>	<u>500</u>	<u>500</u>		
<u> Aug 16 – Oct 15</u>	<u>200</u>	<u>200</u>	<u>500</u>		
<u> Oct 16 – Mar 31</u>	<u>50</u>	<u>100</u>	<u>500</u>		
*Levels of disturbance: Low =drive by, low use, once per week; Medium = 15 minutes to 2 hours of activity less than 49 decibels, one or two passes per day; High = more than 2 hours of activity, more than 49 decibels					

Any unoccupied suitable burrows within the solar facility footprint will be excavated and filled in under the supervision of the Lead Biologist prior to site preparation. Any <u>unoccupied burrows located outside the construction activity zones shall be left in their</u> <u>current condition</u>.

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- The Plan will specify detailed methods for passive relocation of burrowing owls, if needed, and monitoring and management of the passive relocation including a threeyear monitoring program.
- Passive relocation shall only be used during the non-breeding season, generally September 1 to February 1, to exclude burrowing owls from the Project site. Passive relocation shall be implemented to provide replacement burrows off site (if needed); collapse all unoccupied burrows within the construction site; and install a one-way door on the occupied burrow to evict the burrowing owl without handling it. Prior to any passive relocation, biologists shall survey nearby habitats to identify and inventory suitable unoccupied natural burrows for relocation. If none are available, artificial burrows shall be constructed based on the number of burrowing owls in need of relocation.
- Artificial burrows shall be located at least 50 meters outside any temporary or permanent Project impact areas, but as close as possible to the original burrow and no more than one mile from the original burrow location if possible. Artificial burrows will be designed, constructed, and installed following guidelines provided in CDFW (2012). All artificial burrows and mapped natural burrows shall be monitored for burrowing owl use at least once per quarter throughout the construction phase of the Project.
- Following the excavation of all suitable inactive burrows within the construction area and installation of artificial burrows, burrowing owls will be passively excluded from occupied burrows. Burrow exclusion will involve the installation of one-way doors in burrow openings during the non-breeding season. Following confirmation that passive exclusion burrows are unoccupied, the burrows shall be carefully excavated using hand tools, or small tracked equipment, and backfilled to ensure that they are no longer suitable for burrowing owl use.
- Compensatory mitigation for burrowing owl shall include suitable habitat for the species at a minimum of 1:1 ratio, as determined in coordination with CDFW.
- MM BIO-1112 Desert Kit Fox and American Badger Relocation. Desert kit fox and American badger protection and relocation will incorporate the following requirements:
 - The Applicant will prepare and implement a Plan for wildlife relocation, including desert kit fox, American badger, and other species (i.e., burrowing owl), as needed. The Plan must be reviewed and approved by _the lead agencies prior to the start of ground-disturbing activities. Under direction of the Lead Biologist, biological monitors shall conduct pre-construction surveys for desert kit fox and American badger. Surveys schedules will be coordinated with constructing the desert tortoise exclusion fence and the pre-construction desert tortoise clearance surveys. Surveys shall also consider the potential presence of dens within 100 feet of the Project boundary (including utility corridors and access roads).
 - If dens are detected each den shall then be further-classified as inactive, potentially active, or definitely active.
 - Inactive dens directly impacted by construction activities shall be excavated and backfilled to prevent reuse. Excavation and backfilling shall be conducted in accordance with standard approved desert tortoise burrow excavation and protocols.

Excavation will use hand tools or a small driver-operated backhoe under close supervision of a qualified biologist, as there are no excavation standards and protocols for desert kit fox or badger.

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- All dens identified as potentially active or active within the Project footprint (solar facilities and gen-tie work sites) shall be monitored by a biological monitor for a minimum of 3 consecutive nights using a tracking medium such as diatomaceous medium or fire clay and/or infrared camera stations at the entrance. Each active or potentially active den shall be further classified as non-natal or natal (pups are present) based on tracks or photos observed after the initial 3 consecutive nights.
- If after 3 nights of den monitoring, no desert kit fox/badger tracks are found at the burrow entrance and no photos of the target species using the den are observed, it will be determined that the desert kit fox/badger den or complex is inactive and will be excavated.
- If an active non-natal den is detected on the site, a 100-foot construction exclusion zone will be established until passive relocation is successfully completed. Passive relocation methods include spray deterrents, transistor radios, and ultrasonic emitters. Any kit fox hazing activities that include the use of animal repellents such as coyote urine must be cleared through the CDFW prior to use. With CDFW approval, the den may be blocked with natural materials or bag barriers. If these methods are unsuccessful, installation of one-way doors may be used. On the third day following one-way door installation, all den entrances will be inspected to ensure they are clear of sign and that desert kit fox or badger have vacated. Confirmed active dens may be excavated if passive relocation was successful. Dens shall be collapsed prior to construction of the perimeter fence, to allow animals the opportunity to move off site without impediment.
- Potential natal dens shall be monitored for a minimum of 3 additional consecutive nights. If a den or complex is determined to be natal, the CDFW shall be notified via email within 24 hours. A 500-foot no disturbance buffer shall be maintained around all active natal dens. Passive relocation and excavation will not be implemented until monitoring confirms that the den is no longer in active use as a natal den. Inactive dens directly impacted by construction activities shall be excavated by hand and backfilled to prevent reuse. Active dens identified early in the pupping season, from February 1 to April 30, will not be passively relocated or excavated without prior approval from CDFW.Potentially active dens within the construction footprint shall be monitored by a Biological Monitor for three consecutive nights using a tracking medium such as diatomaceous medium or fire clay and/or infrared camera stations at the entrance. If no tracks are observed in the tracking medium or no photos of the target species are captured after three nights, the den shall be excavated and backfilled by hand.
- The biological monitor shall make weekly visits to the location of passive relocation to ensure that desert kit fox or badger do not re-excavate and reoccupy the area if no active ground disturbing construction is occurring within the vicinity. If tracks are observed, dens shall be fitted with one-way trap doors to encourage animals to move off site. After 48 hours post installation, the den shall be excavated by hand and collapsed. Dens shall be collapsed prior to construction of the perimeter fence, to allow animals the opportunity to move off site without impediment.

- If an active natal den is detected on the site, the CDFW shall be contacted within 24 hours. The course of action will depend on the age of the pups, location of the den site, status of the perimeter fence, and the pending construction activities proposed near the den. A 500-foot no disturbance buffer shall be maintained around all active dens. Alternatively, a designated biologist authorized by CDFW shall trap and remove animals from occupied dens and move them off site into appropriate habitat. Additionally, the following measures are required to minimize the likelihood of distemper transmission:
- Any kit fox hazing activities that include the use of animal repellents such as coyote urine must be cleared through the CDFW prior to use.
- Any documented kit fox mortality shall be reported to the CDFW within 24 hours of identification. If a dead kit fox is observed, it shall be retained and protected from scavengers until the CDFW determines if the collection of necropsy samples is justified.
- MM BIO-13Wildlife Protection and Relocation Plan. The Applicant shall prepare and implement a
Wildlife Protection and Relocation Plan that incorporates the protection, buffer, and
survey requirements for desert tortoise (MM BIO-7), burrowing owl (MM BIO-11), and
desert kit fox and American badger (MM BIO-12). The Plan shall specify the requirements
for each species and provide a framework for adaptive management and reporting of
survey results. The Plan must be reviewed by Riverside County, BLM, CDFW, and USFWS
prior to the start of ground-disturbing activities.

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<u>Desert tortoise, burrowing owl, desert kit fox, and American badger buffers shall be main-</u> tained as directed in MM BIO-7, MM BIO-10, and MM BIO-11.

PLAN REQUIREMENTS

Consistent with DRECP CMAs LUPA-BIO-6 (Subsidized Predators Standards), LUPA-BIO-9 (Water and Wetland Dependent Species Resources), LUPA-BIO-12 (Noise), LUPA-BIO-14 (General Standard Practices), LUPA-BIO-IFS-12 (Burrowing Owl), LUPA-BIO-IFS-13 (Burrowing Owl), DFA-BIO-IFS-1 (Individual Focus Species (IFS)), the Plan will include:

- A summary of wildlife survey methods and results;
- Detailed qualifications, roles, and responsibilities for the Lead Biologist and monitoring biologists;
- Procedures for pre-construction clearance surveys;
 - Prior to construction of solar facility, desert tortoise exclusion fencing will be installed around the entirety of the approved solar field construction areas, as well as parking and laydown areas. No more than 10 days prior to the initiation of fence construction, a pre-activity multi-species survey shall be conducted using techniques that provide 100% visual coverage of the disturbance area. If any burrow within the potential disturbance area for fence construction or inside the planned fence line is determined to be unoccupied, it will be carefully collapsed per guidelines from the Desert Tortoise Field Manual (USFWS, 2009).
 - If a burrow is potentially occupied by a target species, then further actions will be taken to passively exclude the animal during the appropriate season (as detailed in MM BIO-7, MM BIO-10, and MM BIO-11).
 - Once the fence is constructed, clearance surveys within fenced areas shall consist of 100% visual coverage using pedestrian belt transects spaced at 5-meter intervals. An additional 500-foot (150-meter) buffer outside the Project boundary shall also be surveyed with pedestrian belt transects spaced at 10 meters apart, where possible,

to identify any potentially active burrows or complexes that may be indirectly affected by construction activities. Surveys shall focus on sign for desert tortoise, desert kit fox, American badger, and burrowing owl.

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- Any burrows or den complexes identified shall be classified as inactive, possibly active, or active. Inactive dens that would be directly impacted by construction shall be excavated. All burrows and kit fox den complexes that are potentially active or active with live individuals inside will be further observed per the requirements of individual species as detailed in MM BIO-7 (desert tortoise), MM BIO-10 (burrowing owl), and MM BIO-11 (desert kit fox, American badger). Confirmed active dens may be excavated upon successful passive relocation. Excavations shall be photographed for reporting to demonstrate success and sufficiency.
- Methods for construction monitoring;
 - Biological Monitors shall be present during fence construction (security fencing, desert tortoise exclusion fencing, or both for the solar sites), vegetation removal, and ground disturbance to ensure that wildlife is not present. After vegetation is cleared, biological monitors will perform spot checks in fenced areas immediately prior to initiation of construction to ensure that no wildlife have re-entered the site.
 - Along the gen-tie line, biological monitors shall escort construction vehicles and inspect work areas prior to crews beginning any ground disturbance. All parked vehicles and equipment, and the ground beneath them, will be inspected for wildlife prior to being moved. Work activities shall be stopped by the Biological Monitor if any target species or other special-status species, such as desert tortoise, enters the work area. Work activities shall proceed at the site only after the animal has either moved away of its own accord or, is moved from harm's way by a biologist with state and federal authorization and according to any conditions identified in applicable authorizations.
- Detailed species-specific exclusion methods for special-status wildlife as follows:
 - <u>Couch's spadefoot toad. Potential breeding habitat identified during wildlife surveys</u> <u>shall be inspected after sufficient rainfall for Couch's spadefoot toad. If Couch's</u> <u>spadefoot toads are found on the Project site, the permitting and wildlife agencies</u> <u>will be consulted in order to develop an avoidance strategy.</u>
 - Desert tortoise. See MM BIO-7 for details on buffers, monitoring, exclusion, relocation, and translocation.
 - <u>Burrowing owl. See MM BIO-10 for details on burrow buffers, monitoring, passive</u> relocation, and excavation.
 - Desert kit fox and American badger. See MM BIO-11 for details on den buffers, monitoring, passive relocation, and excavation.
- Procedures for handling sick, injured, or dead wildlife;
 - <u>Resource agencies would be immediately notified of sick, injured, or dead wildlife.</u> Written follow-up notification via email will be submitted within 24 hours, including the location (GPS record), photographs (if available), and any relevant observations at the time of detection. The animal will be handled and transported only on direction from the wildlife agencies. Health and safety precautions will be used at all times when handling the animal.

- Description of adaptive management methods;
 - If there is evidence of Project-related disturbance or increased risk to special-status wildlife, where initial protection methods have been deemed ineffective, adaptive management would be implemented in coordination with resource agencies, such as additional surveying and monitoring, increased buffers, seasonal restrictions, additional artificial replacement burrows, or agency approved wildlife relocation.

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- Description of reporting requirements;
 - During construction, reporting shall be provided in weekly, monthly, quarterly, and annual compliance reports to the permitting and wildlife agencies. During O&M, reports shall be provided quarterly, unless more frequent reporting is prudent based on species presence. Reports shall provide a summary of activities performed and the results for each species. Data recorded shall be submitted as appendices to each report.
- MM BIO-1214 Streambed and Watershed Protection. If jurisdictional features cannot be avoided, prior to ground disturbance activities that could impact these aquatic features, the Applicant shall file a complete Report of Waste Discharge with the RWQCB to obtain Waste Discharge Requirements (WDR) and shall consult with CDFW on the need for a streambed alteration agreement. If permits are required, they shall be obtained prior to disturbance of jurisdictional resources. Copies of the finalreport approved permit shall be submitted to Riverside County. If permits are required, they shall be obtained prior to disturbance of jurisdictional resources. Prior to ground-disturbing activities in jurisdictional waters of the State, the Applicant will obtain a Lake and Streambed Alteration Agreement (LSAA) from the CDFW and Waste Discharge Requirements (WDR) from the RWQCB.

Compensatory mitigation for impacts to jurisdictional streambeds/washes shall be identified prior to disturbance of the features at a minimum 1:1 ratio, and a 5:1 ratio for minor incursions to desert dry wash woodland, as approved by RWQCB or CDFW, either through onsite or offsite mitigation, or purchasing credits from an approved mitigation bank. The Applicant shall comply with the compensatory mitigation required and provide proof of compliance, along with copies of permits obtained from the RWQCB and/or CDFW shall be provided to Riverside County.

A Stormwater Pollution Prevention Plan (SWPPP) or SWPPP-equivalent document shall be prepared by a qualified engineer or erosion control specialist, and once approved by the State Water Resources Control Board and a BLM hydrologist, shall be and implemented before and during construction. The SWPPP shall include BMPs for stormwater runoff quality control measures, management for concrete waste, stormwater detention, watering for dust control, and construction of perimeter silt fences, as needed.

- The Applicant will shall implement BMPs identified below to minimize adverse impacts to streambeds and watersheds.
 - Vehicles and equipment will not be operated in ponded or flowing water except as specified by resource agencies.
 - The Applicant will minimize road building, construction activities, and vegetation clearing within ephemeral drainages.
 - The Applicant will prevent water containing mud, silt, or other pollutants from grading or other activities from entering ephemeral drainages or being placed in locations that may be subjected to high storm flows.

• Spoil sites will not be located within 30 feet from the boundaries of drainages or in locations that may be subjected to high storm flows, where spoils might be washed back into drainages.

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- Raw cement/concrete or washings thereof, asphalt, paint or other coating material, oil or other petroleum products, unapproved herbicides, or any other substances that could be hazardous to vegetation or wildlife resources, resulting from Projectrelated activities, will be prevented from contaminating the soil and/or entering ephemeral drainages. The Applicant shall ensure that safety precautions specified by this measure, as well as all other safety requirements of other measures and permit conditions are followed during all phases of the Project.
- When operations are completed, any excess materials or debris will be removed from the work area. No rubbish will be deposited within 150 feet of the high-water mark of any drainage during construction, operation, and decommissioning the Project.
- No equipment maintenance will occur within 150 feet of any wetland, Category 3, 4, or 5 streambed, or any streambed greater than 10 feet wide. No petroleum products or other pollutants from the equipment will be allowed to enter these areas or enter any off-site state jurisdictional waters under any flow.
- With the exception of the drainage control system installed for the Project, the installation of bridges, culverts, or other structures will be such that water flow (velocity and low flow channel width) is not impaired. Bottoms of temporary culverts will be placed at or below stream channel grade.
- No broken concrete, debris, soil, silt, sand, bark, slash, sawdust, rubbish, or other organic or earthen material from any construction or associated activity of whatever nature will be allowed to enter into or be placed where it may be washed by rainfall or runoff into, off-site state jurisdictional waters.
- Stationary equipment such as motors, pumps, generators, and welders located within or adjacent to a drainage will be positioned over drip pans. Stationary heavy equipment will have suitable containment to handle a catastrophic spill/leak. Clean up equipment such as brooms, absorbent pads, and skimmers will be on site prior to the start of construction.
- The cleanup of all spills will begin immediately. <u>USFWS, RWQCBSWRCB</u>, CDFW, BLM, and Riverside County will be notified immediately by the Applicant of any spills and will be consulted regarding clean-up procedures.

3.5.7.1. Mitigation Measures and Corresponding CMAs

The requirements of applicable DRECP CMAs have been incorporated into the biological resources mitigation measures (Section 3.5.7). Table 3.5-7 outlines the biological resources DRECP CMAs that align with EIR mitigation measures. The DRECP CMAs are summarized in Section 3.5.7 and the full text of DRECP CMAs are included in Appendix L of the Final EIR.

Table 3.5-7. Mitigation Measures and Corresponding CMAs

Mitigation Measure	<u>CMA</u>
MM BIO-1 (Biological Monitoring)	LUPA-BIO-2 (Biological Resources)
MM BIO-2 (Worker Environmental Awareness Training)	LUPA-BIO-5 (Worker Education)

Vegetation and Habitat Impacts) III III III (E MM BIO-4 (Integrated Weed III Management Plan) III MAnagement Plan) III Management Plan) III Management Plan) III III III IIII IIII IIII IIII IIII IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ut not Converted by Long-Term Disturbance) UPA-BIO-13 (General Siting and Design) UPA-BIO-15 (Biology: General Standard Practices) UPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation <u>Management</u>) UPA-BIO-PLANT-1 (Plant Species (PLANT): Plant Focus and BLM pecial Status Species CMAs) UPA-BIO-IFS-25 (Golden Eagle)* UPA-BIO-6 (Subsidized Predators Standards) UPA-BIO-9 (Water and Wetland Dependent Species Resources)
Management Plan) III MM BIO-5 (Vegetation Resources III Management Plan) III III III IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	<u>UPA-BIO-11 (Nuisance Animals and Invasive Species)</u> <u>UPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities</u> <u>but not Converted by Long-Term Disturbance)</u> <u>UPA-BIO-13 (General Siting and Design)</u> <u>UPA-BIO-15 (Biology: General Standard Practices)</u> <u>UPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation</u> <u>Management)</u> <u>UPA-BIO-PLANT-1 (Plant Species (PLANT): Plant Focus and BLM</u> <u>pecial Status Species CMAs)</u> <u>UPA-BIO-IFS-25 (Golden Eagle)*</u> <u>UPA-BIO-6 (Subsidized Predators Standards)</u> <u>UPA-BIO-9 (Water and Wetland Dependent Species Resources)</u>
Management Plan) bit LL LL LL LL LL LL LL LL M LL M LL M LL M LL Sig LL MM BIO-6 (Wildlife Protection) LL LL LL	UPA-BIO-13 (General Siting and Design) UPA-BIO-15 (Biology: General Standard Practices) UPA-BIO-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (General Vegetation <u>Management)</u> UPA-BIO-PLANT-1 (Plant Species (PLANT): Plant Focus and BLM pecial Status Species CMAs) UPA-BIO-IFS-25 (Golden Eagle)* UPA-BIO-6 (Subsidized Predators Standards) UPA-BIO-9 (Water and Wetland Dependent Species Resources)
■ <u>[[</u>	UPA-BIO-9 (Water and Wetland Dependent Species Resources)
	<u>UPA-BIO-13 (General Siting and Design)</u> <u>UPA-BIO-14 (Biology: General Standard Practices)</u> <u>UPA-BIO-IFS-11 (Bendire's Thrasher)</u>
Protection) L L L L L L L D D	<u>UPA-BIO-4 (Seasonal Restrictions)</u> <u>UPA-BIO-6 (Subsidized Predators Standards)</u> <u>UPA-BIO-IFS-2 to -9 (Individual Focus Species (IFS): Desert Tortoise)</u> <u>UPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1</u> <u>Biological Compensation)</u> <u>DFA-BIO-IFS-1 and -3 (Biological Resources, Individual Focus Species,</u> <u>Desert Tortoise)</u>
Conservation Strategy (BBCS))	UPA-BIO-16 to -17 (Activity-Specific Bird and Bat CMAs) UPA-BIO-BAT-1 (Bat Species (BAT)) UPA-BIO-COMP-2 (Compensation (Birds and Bats))
Management Plan (NBMP))	<u>UPA-BIO-4 (Seasonal Restrictions)</u> <u>UPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species)</u> DFA-BIO-IFS-1 and -2 (Biological Resources, Individual Focus Species)
MM BIO-10 (Gen-tie Lines)	UPA-TRANS-BIO-2 (Biological Resources Transmission)
Avoidance and Relocation)	<u>UPA-BIO-4 (Seasonal Restrictions)</u> <u>UPA-BIO-IFS-12 to -14 (Burrowing Owl)</u> DFA-BIO-IFS-1 and -2 (Biological Resources, Individual Focus Species)
MM BIO-12 (Desert Kit Fox and American Badger Relocation)	<u>N/A</u>
MM BIO-13 (Wildlife Protection and Relocation Plan)	<u>N/A</u>
Watershed Protection) (E	UPA-BIO-COMP-1 (Compensation) and DFA-VPL-BIO-COMP-1 Biological Compensation) UPA-BIO-9 (Water and Wetland Dependent Species Resources)
<u>MM N-1</u>	UPA-BIO-12 (Noise)

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<u>1 some CMAs are applicable to more than one MM</u> <u>2 Golden eagle CMA is related to preserving golden eagle foraging habitat</u>

The following CMAs have been incorporated into project design or have been complied with as part of pre-project surveys.

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- LUPA-BIO-1 (Biological Resources) requires assessments of habitat, identification of vegetation types, and protocol surveys for BLM Special Status Species where suitable habitat may be present in the Project area. Habitat assessments and protocol surveys were performed as described in the BRTR (EIR Appendix C) and Jurisdictional Delineation (EIR Appendix F). Additional surveys would be performed per species specific CMAs, as applicable.
- LUPA-BIO-3 (Resource Setback Standards) requires setbacks from specific biological habitats with allowable minor incursions as specified in applicable CMAs. Setback requirements are described in the species-specific CMA. As part of Project design, the Project would avoid the desert dry wash woodland vegetation type with the required 200-foot buffer per LUPA-BIO-RIPWET-1.
- <u>LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species) requires that certain vegetation types</u> be avoided with a specified setback, except for allowable minor incursions. Sonoran-Coloradan Semi-Desert Wash Woodland (desert dry wash woodland, microphyll woodland) is required to be avoided with a 200-foot setback. As part of Project design, the Project would avoid the desert dry wash woodland vegetation type with the required 200-foot buffer.
- LUPA-BIO-SVF-6 (Special Vegetation Features) requires that impacts to microphyll woodland be avoided except for minor incursions. As part of Project design, the Project would avoid the desert dry wash woodland vegetation type with the required 200-foot buffer, except for minor incursions.
- <u>LUPA-BIO-IFS-1 (Individual Focus Species (IFS): Desert Tortoise) requires that activities in desert tortoise</u> <u>linkages be evaluated for the effects on the maintenance of long-term viability of linkage populations.</u> <u>An evaluation of impacts to desert tortoise is provided in Section 3.5.5 in Impact BIO-2.</u>
- DFA-VPL-BIO-IFS-1 (Individual Focus Species (IFS): Desert Tortoise) requires that activities be sited in previously disturbed areas, areas of low-quality habitat, and areas with low habitat intactness within desert tortoise linkages. As part of Project design, the Project has been sited to comply with this CMA.
- LUPA-TRANS-BIO-1 (Biological Resources: Transmission) requires that requires that transmission lines be developed along roads, other previously disturbed areas, or designated utility corridors. LUPA-TRANS-BIO-4 (Biological Resources: Transmission) requires that transmission lines be sited to avoid rare vegetation alliances and sand dependent habitats that support BLM Special Status Species. As part of Project design, the Project has been sited to comply with this CMA.

3.6. Cultural and Tribal Cultural Resources

This section provides information on known existing cultural resources and tribal cultural resources in and surrounding the IP Easley Renewable Energy Project (Easley or Project) area and alternatives. The California Environmental Quality Act (CEQA) requires that the effects of discretionary projects on cultural and tribal cultural resources be considered in the planning process. This section evaluates the proposed Project's potential impacts to these resources. An impact analysis and comparison of project alternatives is included in Section 5.

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Cultural resources reflect the history, diversity, and culture of a region, as well as the people who created them. Cultural resources are unique in that they are often the only remaining evidence of past human activity. Cultural resources can have a variety of forms, only a subsection of which are actively built or modified by humans. Cultural resources can also be natural features or connected landscapes with understood importance to people in the past and/or the present. They include archaeological, traditional, and built environment resources, including but not necessarily limited to buildings, structures, objects, districts, and sites. Cultural resources include locations of important events, traditional cultural places, sacred sites, and places associated with important people. Many cultural resources are present in the region surrounding the proposed Project area, both on the ground surface and buried completely or partially beneath it, which could be affected by development without adequate protections in place.

Tribal cultural resources (TCR) include sites, features, places, cultural landscapes, and sacred places or objects that have cultural value or significance to a Tribe. To qualify as a TCR, the resource must either: (1) be listed on, or be eligible for listing on, the California Register of Historical Resources or other local historic register; or (2) constitute a resource that the lead agency, at its discretion and supported by substantial evidence, determines should be treated as a TCR (PRC Section 21074(a)(2)). Native American tribes that are traditionally and culturally affiliated with a geographic area can provide lead agencies with expert knowledge of TCRs.

The Project area encompasses approximately 3,888 acres, which includes 988 acres of privately owned land under the jurisdiction of the County of Riverside (County) and 2,900 acres of land managed by the Bureau of Land Management (BLM). For purposes of the analysis of Cultural Resources and TCRs under CEQA, the <u>Project</u> area <u>under County jurisdiction</u>-is identified herein as the CEQA Area of Direct Impacts. The 1-mile area surrounding the <u>CEQA Area of Direct ImpactsProject</u> is identified herein as the CEQA Area of Indirect Impacts.

The following discussion is based on the <u>confidential</u> cultural resources technical reports prepared for this Project: *Phase I Cultural Resource Inventory for the Easley Renewable Energy Project, Riverside County, California* (Clark et al. 2023) and *Class III Cultural Resources Inventory for the Easley Renewable Energy Project, Riverside County, California* (Hinojosa et al. 2024).

3.6.1. Environmental Setting

3.6.1.1. Natural Setting

Physiography and Geography

The Project is in the Chuckwalla Valley of eastern Riverside County, situated in the intervening valley forming the boundary between the Mojave Desert and eastern Transverse Range geomorphic provinces (CGS 2002; Hall 2007).

The Project area is situated on a series of fans emanating from the southeastern front of the Eagle Mountains. The surface of this area is highly alleviated with braided drainages incised into younger sandy

Holocene remnant surfaces with a number of east-northeast trending channels cut into a relict Late Holocene surface. In general, The Project area consists of both active and remnant surface components.

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The Colorado Desert climate is generally hot and dry, with average daily temperatures ranging from the low 40 degrees Fahrenheit (°F) in winter to 105°F in summer, although summer temperatures can exceed 120°F. Rapid heat loss at night results in a wide daily temperature variance of approximately 50°F. Annual rainfall totals within the Colorado Desert are among the lowest in the Sonoran Desert, averaging less than 2 inches per year in the Salton Trough and between 2 to 4 inches along the Colorado River.

Surface water is restricted to perennial and seasonal sources. Perennial water for the region is limited to the Colorado River, which lies approximately 48 miles east of the Project area and is one of the major river systems in the United States. Mountains that surround the valley include the Palen and Coxcomb ranges to the north and northeast, the Eagle Mountains to the west, and the Chuckwalla Mountains to the south. The Chuckwalla Valley basin includes four dry lakes or playas: Palen Lake, Ford Lake, Hayfield Lake, and an unnamed playa between the McCoy Range and Mule Mountain.

Flora within the Project area is typical of the Colorado Desert and characterized by a bimodal pattern of rainfall allowing for greater plant diversity. The primary plant community is Sonoran Desert Scrub, which is dominated by creosote bush. Other plant communities include Desert Dry Wash Woodland and Desert Pavement.

Faunal species within Project area consist of small mammals such as the desert cottontail, jackrabbit, kangaroo rat, packrat; lizards, snakes, desert tortoise (*Gopherus agassizii*), and a small number of birds. Large mammals typically consist of desert bighorn sheep (*Ovis canadensis nelsoni*), Sonoran pronghorn antelope (*Antilocapra americana sonoriensis*), and coyote (*Canis latrans*).

3.6.1.2. Prehistoric Setting

The Project area is near the boundary of the Colorado and Mojave deserts and is located along a known prehistoric and historic travel corridor. Scholars suggest multiple groups were present in the region at various times. Groups in the region originated from portions of the Mojave Desert, the interior Colorado Desert, and the Colorado River, as well as more distant locations, such as the peninsular ranges, the Sonoran Desert region east of the Colorado River or elsewhere in the southwestern cultural sphere of Arizona, New Mexico, and Mexico. Therefore, the area's archaeological record also may reflect affinities with any of these regions. Consequently, the prehistoric context herein draws on current knowledge from both the Mojave and Colorado desert regions.

Paleoindian Period (circa 12,000 to 8000 BP)

This first period of human occupation in California is commonly referred to as the Paleoindian Period (around 12,000 to 8,000 years before the present [BP]). Evidence of a permanent Paleoindian occupation in the Colorado Desert is scant. Isolated Paleoindian projectile points (large, fluted points) have been recovered on the surface at several locations, including Pinto Basin, approximately 37 miles northwest of the Project area, and near McCoy Spring in the northern Chuckwalla Valley, approximately 25 miles due east. However, few Paleoindian archaeological sites have been identified in the Colorado Desert. The lack of evidence may be due to an absence of large-scale data recovery efforts in the region and the instability of landforms rather than a lack of human occupation.

Archaic Period (8000 to 1500 BP)

During the Archaic period (8000 to 1500 BP), climates were generally warmer and drier. Populations grew and prehistoric economies became more diversified, shifting away from large game hunting that occurred during the terminal-Pleistocene. New technologies, such as the milling stone, indicate an increasing

dependence on plant resources. Archaic Period projectile point types include Gypsum, Elko, and Humboldt series.

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Late Prehistoric Period (1500 BP to Historic Period)

The Late Prehistoric period is represented by the Patayan complex. By this time, an extensive network of established trade routes traversed through the desert. This complex network of prehistoric trails consisted of major travel routes and special activity areas, interconnected with smaller trails. Broken ceramic vessels, lithic debitage, and small rock features are often found in association with these trails.

Artifacts associated with the Late Prehistoric period include Desert Side-notched and Cottonwood projectile points, brownware and buffware ceramics, and steatite shaft straighteners. Imported goods from the California coast, such as shell beads, are also found and testify to the importance of long-distance trade during this period. Late Prehistoric sites are often associated with trails, pictographs, petroglyphs, bedrock milling surfaces, and rock shelters. Along the Colorado River, subsistence strategies of native groups shifted from hunting and gathering to floodplain horticulture. Many Late Prehistoric sites have been found on the shorelines of ancient Lake Cahuilla. Water levels of this lake oscillated over the course of human history, particularly in the Salton Trough where the Salton Sea sits today (between approximately 30 and 60 miles southwest of the Project area).

Numerous petroglyphs and geoglyphs exist in the lower Colorado River area, the most well-known of which are the Blythe Intaglios. These large anthropomorphic (human-shaped) and zoomorphic (animal-shaped) figures are located along the Colorado River north of the town of Blythe, California.

3.6.1.3. Ethnographic Setting

There is archaeological evidence that ancestors of the Yuman language groups have been in the area for some time. However, these were not the only people who used this area. Ethnographic information suggests several other Native American groups, such as the Cahuilla and Chemehuevi, at least traversed the vicinity of the Project area (e.g., Bean 1978; Kelly and Fowler 1986; Laird 1976).

Native use of the Chuckwalla Valley area in the eighteenth and early nineteenth centuries was conditioned by its location as a frontier or boundary zone between the Halchidhoma to the east and the Takic groups, the Cahuilla, to the west. The Halchidhoma were linked to the desert division of the Cahuilla and the mountain division of the Serrano by ties of political friendship and long-distance exchange. Thus, the Chuckwalla Valley area formed a geographical link between these groups and formed a major travel corridor for communication between them. In addition to this east–west travel, the Chuckwalla Valley also provided a corridor for north–south travel between the territories of two Colorado River groups who were enemies of the Halchidhoma, the Mohave (also spelled Mojave) and the Quechan. Traveling parties from either one of these two groups going up or down the Colorado River traversed through the Chuckwalla Valley region to avoid the Palo Verde Valley and the Halchidhoma.

Ethnohistorical and ethnographic sources for the Chuckwalla Valley area have been limited because the area was not regularly visited by non-native people until the 1860s. This was due in part to the fact that water and feed management on the eastern California deserts posed a severe challenge to successful horse or mule travel to the Colorado River and Arizona by non-native people. In addition, the boundaries and areas of settlement of native groups in the region fluctuated over time. Thus, ethnohistoric information and archaeological data may outline different patterns of occupation and territoriality. Nevertheless, it can be said with confidence that most groups living in the vicinity of the Project when the Spanish first made forays into the area spoke languages in the Yuman family of the Hokan language stock. These include the Halchidhoma, the Mohave, and the Quechan. Surrounding groups are Uto-Aztecan speakers; the Chemehuevi speak a language of the Numic branch, and the Cahuilla are Takic-speakers. The final

desiccation of Lake Cahuilla is thought to have caused major disruptions in the population in the Colorado Desert, perhaps contributing to the persistent warfare reported along the lower Colorado and Gila Rivers.

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Native American groups with historical tribal territories falling within the vicinity of the Project site include the Quechan, Halchidhoma, Mohave, Chemehuevi, and Desert Cahuilla, which are discussed briefly below.

Quechan

Quechan is a variation on the names Kwichyan or Kuchiana, but this group is also commonly known as the Yuma; today they refer to themselves as Kw'tsan. The Quechan are among the Yuman groups who occupied the lower Colorado River where it forms the boundary between California and Arizona. Prior to European contact, Quechan populations may have reached 4,000.

Quechan subsistence was based on a combination of horticulture, fishing, and gathering. Plants such as maize, melons, teparies, corn, black-eyed beans, and pumpkins were cultivated in the rich silt of the Colorado River floodplain. During wet winter and spring months, Quechan groups occupied seasonal villages located above the river floodplain. In the summer and fall, small kin groups would relocate along the river to plant crops. Diets were supplemented with fish taken from the river. Several villages were located along the Colorado River, including *Avi Kwotapai* located on the west side of the Colorado River between Blythe and Palo Verde Valley and *Xenu mala vax* on the east side of the river near present-day Ehrenberg.

For the Quechan, like other lower Colorado River groups, individual dreaming to seek guidance in life and spiritually based power was a principal aspect of their religious belief and practice. This included learning sacred songs about events that occurred at the time of the creation of the world through dreaming. Singing these songs are a principal avenue of religious expression. The dreaming experience meant that sacred places could be visited, and the sacred landscape traversed, through dreaming rather than through conventional travel, although physical travel along trails to sacred places is also an important aspect of the religious experience. Travel on key Native American trails continues to be a cultural practice today to commemorate and experience traditional culture. The geography of sacred places related to the sacred song cycles of Yuman groups is a major cultural feature of the lower Colorado River region.

Halchidhoma

The Halchidhoma (also known as the Panya) are a Yuman group who, until about 1825, lived along the Colorado River between the present-day cities of Blythe and Needles. According to the oral history of the Halchidhoma, they traveled south to Mexico where they lived adjacent to a Yaqui settlement until around 1838 when most died of an epidemic. At that point, the remaining Halchidhoma moved northeast and eventually settled down with the Maricopa tribe, another Yuman group living along the Gila River.

The Halchidhoma were known to travel and trade over great distances. The Coco-Maricopa Trail, leading west from a portage point across the Colorado River adjacent to the city of Blythe, linked the Halchidhoma with the Pacific coast. Ceramic seriation and radiocarbon dates from marine shell indicate that an extensive trade network between the Pacific coast and the lower Colorado River region was established by at least 1100 BP. The Halchidhoma traded with the Cahuilla, Hualapai, Papago, and Pima of Arizona, and were closely allied with the Maricopa.

By all accounts, the Halchidhoma were frequently in conflict with their Colorado River neighbors, the Quechan and Mohave. During the decades, if not centuries, of open hostility, the Halchidhoma established strong alliances with the Maricopa and Cocopah peoples who lived to the east along the Gila River. Ultimately, the Halchidhoma went to live with and intermarried with their allies the Maricopa, and are, therefore, poorly documented in the ethnographic literature.

Mohave

The Mohave were among the earliest residents in the Mojave Desert. They moved from the area approximately 500 years ago to the Colorado River where they were documented by Father Francisco Garcés, a Spanish explorer, in 1776. Another Spanish explorer, Juan de Oñate, may have observed this group as early as 1604 based on his descriptions of the "Mohave" people along the Colorado River. The Mohave are notable for their understanding of themselves as a unified "nation" of people, known as the Hamakhava, rather than as a series of loosely related clans or villages. The whole of the Mohave acted together in defending their territory and attacking their enemies.

During much of the year, the Mohave lived in villages on terraces above the Colorado River, only moving down onto the floodplain in the spring to plant crops after the seasonal floods. Like other lower Colorado River peoples, the Mohave relied on floodplain horticulture, fishing, and gathering for subsistence. Planted crops included maize, black-eyed beans (cowpeas), squash, pumpkin, and several local grasses. Cultivated plants were supplemented by the collection of wild plant foods including honey mesquite and mesquite screwbean, which could be stored for long periods of time and were traditional staple foods. Although the pods of both plants could be eaten green, they were usually pounded into flour using long stone or wooded pestles. Additionally, screwbean pods were often processed in large pits dug into sandy soil where the pods were placed, covered with vegetation, and then periodically watered to leach out bitter compounds.

The Mohave are well known for their long-distance travel. Like other Colorado River tribes, they participated in a trade network extending east to the Pueblos of Arizona and west to the Pacific coast. Many important passes and routes of travel, including the well-known Mohave trail connecting the high deserts with the Southern California coastal valleys were developed, or frequented by the Mohave. The endurance and speed of Mohave travelers were legendary at the time of European contact. During the Colonial era, the Spanish frequently encountered groups of traveling Mohave who continued the tradition of desert–coastal travel and trade throughout the mission period, occasionally in conflict with the wishes of Spanish officials.

The importance of dreaming, and the belief in the fundamental interrelationship between the mundane and spiritual worlds, was particularly developed among the Mohave. All people were capable of meaningful dreaming, and most individuals came to their chosen roles in life as a result of their dreams. In dreams, the Mohave travel in a mythical place and time when the world was first formed and the important places, such as mountains and springs, came into being. Dreams also inform public rituals, and the many complicated "song series" that singers perform from memory are said to be dreamed as much as learned. Mohave songs are remarkably specific in the context of geography, thereby acting as a means of storing and transferring important landscape knowledge; they are, among other things, a collection of meaningfully constituted mental maps of the Mohave territory and beyond. Many nearby groups, including the Chemehuevi, borrowed extensively from the Mohave song series repertoire.

Chemehuevi

The Chemehuevi are the southernmost of 16 groups of Southern Paiute peoples, and the only non-Yuman group living along the lower Colorado River at the time of European contact. The traditional territory of the Chemehuevi was an extensive area southwest of Las Vegas, including portions of the eastern Mojave Desert of California. The Chemehuevi lived along the lower Colorado River, although only within the last few hundred years. Their traditional territory was the largest of any tribe in California speaking the same dialect. They occupied a huge portion of the eastern Mojave Desert, ranging from the Old Woman Mountains in eastern San Bernardino County, west to an undefined point in the middle of the Mojave Desert where Serrano territory began, and as far south as the Riverside/Imperial County line. The Spanish

missionary explorer Francisco Garcés in 1775–1776 suggested that the northern Chuckwalla Valley was in the territory of the Chemehuevi.

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The Chemehuevi living in the deserts practiced a relatively nomadic hunting/gathering way of life, with larger settlements near reliable water sources, but no permanent villages. Groups moved with the rhythm of the seasons, arriving to harvest plant foods as they matured and hunting primarily small game. Hunting parties also traveled to the San Bernardino Mountains and visited with their allies the Northern Serrano, or Vanyume. Owing to the impermanence of most desert encampments, housing was typically made of brush erected to protect inhabitants from the harsh sun and wind. Several foods, including dried meats, dried melon and squash, agave hearts, and various seeds, were stored in specially prepared baskets, earth pits, and caves. Chemehuevi groups did not live permanently with their food caches, though, and the stealing of cached food could incite war and inflict spiritual harm.

Until their expansion into the lower Colorado River region, the Chemehuevi did not use pottery, but relied instead on a variety of woven implements and baskets, often with painted designs. Chemehuevi hunters were known for their recurved, sinew-backed bows, which, though shorter than comparable Mohave bows, were nonetheless accurate, powerful, and well suited to hunting deer and other big game. Those groups that settled along the Colorado River adopted agriculture, more substantial wooden dwellings, pottery, and several other cultural features from their riverine neighbors. They are known to have constructed hand-dug wells.

Despite an underlying friction, the Chemehuevi were traditional allies of the Mohave. After the Halchidhoma were driven from the Colorado River area in the early nineteenth century, the Chemehuevi moved into the Parker/Blythe area vacated by the Halchidhoma. Some Chemehuevi families moved to the Mara Oasis, near what now is the city of Twenty-nine Palms. Some scholars suggest that the Chemehuevi may have settled in the Palo Verde Valley vicinity before the expulsion of the Halchidhoma. According to Mohave oral histories, the Chemehuevi were invited to come to the Colorado River after 1830. Chemehuevi sources, though, suggest that the Chemehuevi Valley and Cottonwood Island along the Colorado River were part of the Chemehuevi traditional territory prior to the 1800s. This continues to be a point of disagreement between scholars and between the Mohave and Chemehuevi.

In the Protohistoric and Historical periods, the Chemehuevi traveled extensively through the deserts and as far west as the Pacific coast simply for exploration purposes, and to exchange goods and obtain marine shell ornaments and raw materials. Periodically, small groups of Chemehuevi and Las Vegas Southern Paiute would travel together to the Hopi villages in Arizona, although those trips were described as purely social visits involving gift exchanges, not trading expeditions.

Desert Cahuilla

The Cahuilla language, divided into Desert, Pass, and Mountain dialects, has been assigned to the Cupan subfamily of the Takic branch of the Uto-Aztecan linguistic family. Territory traditionally claimed by the Cahuilla stretches from the summit of the San Bernardino Mountains in the north to Borrego Springs and the Chocolate Mountains in the south, a portion of the Colorado Desert west of Orocopia Mountain to the east, and the San Jacinto Plain near the City of Riverside and the eastern slopes of Palomar Mountain to the west.

Cahuilla villages were typically located in canyons or on alluvial fans near water and food patches. The immediate area surrounding a village was owned by a lineage. Other lands were divided into tracts owned by clans, families, and individuals. Numerous sacred sites with rock art were associated with each village. Villages were connected by trail networks used for hunting, trading, and social visits. Trading was a prevalent economic activity. Some Cahuilla were trading specialists. Cahuilla trade routes extended as far west as the Channel Islands and east to the Gila River.

The Cahuilla had access to an immense variety of plant resources across a diverse suite of habitats. Several hundred plant species were used for food, manufacturing materials, and medicine. Acorns, mesquite and screw beans, pinyon nuts, and cactus fruits were the most important plant foods. These were supplemented by a host of seeds, tubers, roots, bulbs, fruits and berries, and greens. Corn, beans, squash, and melons were cultivated. More than 200 species of plants were used as medicines. Hunting and meat processing were done by men. Game included deer, mountain sheep, pronghorn, rabbits, rodents, and birds. These were pursued by individuals and communal hunting groups. Blinds, pits, the bow and arrow, throwing sticks, nets, snares, and traps were used to procure game. Communal hunts with fire drives sometimes occurred.

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Mortars and pestles, manos and metates, pottery, and baskets were used to process and prepare plant and animal foods. Cahuilla material culture included a variety of decorated and plain baskets; painted/ incised pottery; bows, arrows, and other hunting-related equipment; clothing, sandals, and blankets; ceremonial and ritual costumes and regalia; and cordage, rope, and mats. Games and music were important social and ritual activities for the Cahuilla.

3.6.1.4. Historic Setting

In California, the historic era is generally divided into three periods: the Spanish or Mission period (1769 to 1821), the Mexican or Rancho Period (1821 to 1848), and the American period (1848 to present). Although Europeans did pass through the Project area during the Mission and Mexican periods, all the historic resources identified in the Project area are associated with the American Period. As such, the following discussion emphasizes the American Period. The history of the area relates to themes involving the development of the west and the Colorado Desert, mining and homesteading activities, military desert training, and agribusiness in the late twentieth century. The areas of regional development, transportation, mining, water conveyance, military training activities, and agriculture and ranching are briefly described below.

Regional Development

In the early 1800s, prospectors were some of the only Euro-Americans traveling in the California deserts, and they frequently came into conflict with Native American groups. In the 1820s, limited placer mining began in the eastern Colorado Desert. Regionally, mining and prospecting activities were most intense in the mountains and high deserts of the Mojave, but small-scale mining has been a consistent feature of the Colorado Desert from the 1800s to the present day.

After the Treaty of Guadalupe Hidalgo in 1848, the United States took control of the Southwest and established a series of camps and forts throughout the Arizona, Nevada, and California deserts. The U.S. Cavalry was used to protect settlers and immigrants from the often-hostile tribes whose territories they were invading. Following the discovery of gold at Sutter's Mill the same year, mining camps were established in the desert beginning with Salt Creek in the Armargosa Desert. In the 1850s, some would-be miners tried their luck in the eastern Colorado Desert but found very little gold. Most miners simply passed through the desert on their way to the larger strikes to the west and north.

As part of an effort to establish a railroad route from St. Louis to the Pacific Ocean, the U.S. government conducted a series of surveys from 1853 to 1855 to identify feasible routes. Lieutenant Amiel Weeks Whipple, a topographical engineer in the U.S. Army, was assigned the task of determining the westernmost section of the route from Arkansas to Los Angeles. Whipple passed through Mojave territory in 1854, crossing the Colorado River near present-day Needles. The railroad surveys recorded the terrain and geology of the Colorado Desert. Land in the vicinity of the Project area was included in the survey in 1853.

Along the eastern bank of the Colorado River, the town of La Paz, Arizona, developed when gold was discovered nearby. The subsequent gold rush made La Paz an instant boomtown with a population that

peaked at 1,500 in the 1860s. By 1863, between 2,500 and 3,000 Americans and Mexicans were on the river between Palo Verde Valley and El Dorado Canyon, most of them engaged in mining. Along the stage line between San Bernardino and the Colorado River, La Paz was an important stop and served as the county seat for Yuma County until 1870. The La Paz mining district yielded placer gold for only a short period. The town of La Paz went from boomtown to ghost town by the early 19th century.

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Significant economic development of the Colorado Desert region began in the 1870s and came to fruition in the early part of the twentieth century. Development was dependent largely on two things: water and transportation. Development of transportation came in 1872 with the construction of the Southern Pacific Railroad from Los Angeles to present-day Indio and, eventually, Yuma. The early townsite of Indio, the mid-point between Los Angeles and Yuma, was created to provide living quarters for train crews and railroad workers. A nearby Native American reservation provided some of the labor force for the construction of those living quarters. The first trains ran on May 29, 1876. The Southern Pacific Railroad reached Yuma on September 30, 1877. Railroad stops were built at Walters (now called Mecca), Woodspur (Coachella), and Thermal, among others. The second transcontinental railroad was completed when the Southern Pacific and the Atchison, Topeka, and Santa Fe Railroads were linked at Deming in New Mexico Territory on March 8, 1881, providing settlers relatively quick and easy access to the region.

The railroad was the single most important boost to mining in the southeastern Colorado Desert, offering convenient transportation of heavy mining equipment, supplies, personnel, and bullion. By 1880, the Southern Pacific Railroad was providing regional access to gold and silver ore deposits in the Chocolate Mountains, Cargo Muchachos, and Palo Verde Mountains. When mines opened near the turn of the twentieth century, stamp mills and small tracks leading from the mines to the stamp mills were built. Mining productivity in the southeastern Colorado Desert was greatest between 1890 and 1910, with a brief resurgence in the 1930s.

A further boost to regional development in the Colorado Desert was the rail rate war of 1887, when fares from Missouri River to California were slashed to \$1. Advertising programs were developed to attract settlers to the West. With the railroad to transport crops and the consistently warm climate, areas in the desert were attractive places for prospective farmers of the time. Besides settlers, health reasons stimulated others' attraction to sanitariums that took advantage of the warm climate and desert hot springs in Palm Springs.

Community Development – Desert Center

There are few communities in the Chuckwalla Valley. Desert Center is the closest community, approximately 0.9 mile southwest of the Project Area. The largest nearby city is Blythe, which is located roughly 42 miles east. Other smaller communities include Hell and Eagle Mountain; neither is currently occupied.

Desert Center was founded in 1921 by Stephen Ragsdale, who opened a small gas station and diner with his wife Lydia. It is situated along a segment of former U.S. Highway 60/70 (Ragsdale Road) near the intersection of Rice Road (State Route [SR] 177) and north of Interstate 10 (I-10). The town's core buildings, including the Desert Center Café, automobile garage/service station, and cabins on the south side of Ragsdale Road as well as the post office and market on the north side are on lots that were originally carved out of a larger 40-acre parcel acquired by Ragsdale through a land patent from the State of California approved December 22, 1926.

They pumped gasoline from a 55-gallon drum and served food to weary travelers. Ragsdale was successful in establishing the town along Route 60. It was moved 5 miles to the north to its current location along the freeway following construction of I-10. The community of Desert Center experienced a resurgence associated with the Desert Training Center/California-Arizona Maneuver Area (DTC/C-AMA) and the establishment of Camp Desert Center and Airfield (see discussion below). The town, however, once again became a small quiet roadside attraction after the DTC/C-AMA was closed at the end of World War II

(WWII). The airfield is now privately owned. Today Desert Center is in disrepair, although it still serves as a stopping point along I-10.

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Transportation

William D. Bradshaw blazed the first road through what is now Riverside County in 1862 as an overland stage route beginning at San Bernardino, California, and ending at La Paz (now Ehrenberg), Arizona. Early in the 1860s, Hank Brown and John Frink independently developed routes to access the gold mines in the vicinity of La Paz. Frink's route was an east–west road established as an alternative to the more southern Butterfield Stage route. This was apparently the first Anglo development across the Palo Verde Mesa, although it has since all but disappeared. Bradshaw's route, later known eponymously as the Bradshaw Trail, crossed the desert to the La Paz mining district. Bradshaw also operated a ferry across the Colorado River near Providence Point, opposite a small community that would become Ehrenberg, Arizona.

Bradshaw developed his road partly along Brown's and Frink's previous routes although Bradshaw's trail headed more directly east from Salt Creek Pass to the north slopes of the Chocolate Mountains. Bradshaw, like most early trailblazers, used Native American routes that predated Spanish exploration. Part of Bradshaw's trail may have been the Coco-Maricopa Trail, which intersected the Colorado River near Blythe and may have passed from west to east approximately 8 miles due south of the Project area. The Bradshaw Trail is near Corn Spring (Ross, 1992:129). The Bradshaw Trail, like many other cross-country routes, became largely obsolete with the arrival of rail service in the desert and the depletion of the La Paz gold fields in the late 1870s. The railroads reoriented the development of trails and wagon roads that connected new mining communities to major routes of transportation. Railroad stops became destinations for wagon roads, allowing points of access for development of the remote desert interior. Bradshaw's trail has been largely obliterated and is now a 65-mile-long graded road that traverses mostly public land south of the Chuckwalla Mountains.

The early highway system in the United States developed out of a patchwork of trails that later became unimproved roads and eventually were connected into an integrated system of paved routes. Often, early roads in the United States followed prehistoric trails. One of the earliest transportation corridors through the Chuckwalla Valley included U.S. Highways 60 and 70, currently known as Chuckwalla Valley Road. Portions of Chuckwalla Valley Road were still unpaved up until 1926.

Today, I-10 is the major transportation corridor through the Chuckwalla Valley and the major connector between Los Angeles and Phoenix. The road was completed in 1968 and has become a major east–west corridor for travelers and commercial traffic.

Mining

Riverside County was known historically for its sporadic, small-scale mining of gold, silver, lead, copper, uranium, fluorite, and manganese. Large numbers of prospectors were attracted to the region during the 1862 gold boom in La Paz (in western Arizona, 6 miles north of present Ehrenberg). Not long after, miners and prospectors began combing the mountains on either side of the Chuckwalla Valley. Gold was being mined as early as 1865 in the Eagle Mountain District. Much later, in the late 1940s, Kaiser Steel began a large-scale iron ore mining operation in the Eagle Mountains. In the 1950s, the Blythe-Eagle transmission line was constructed. It was a 161-kilovolt (kV) transmission line that connected a substation in Blythe to a substation near Eagle Mountain for the purpose of providing power to the mine and the community of mine workers.

In the Granite Mountains to the north-northwest, there was a short stint of gold mining beginning in 1894, followed by a resurgence in the late 1920s by the Chuckwalla Mining and Milling Corporation. Copper mining occurred in the Palen Mountains to the northwest during the 1910s, by the Fluor Spar Group,

Homestake Group, Crescent Copper Group, Orphan Boy, and Ophir mines. Most of these mines were abandoned only a few years later.

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The short-lived Pacific Mining District in the Chuckwalla Mountains was established in 1887, following gold and silver discoveries that caused the most substantial rush to Riverside County in its history. Sixty claims were filed by the end of the year, but the boom fizzled by 1890 because the owners never had enough capital to work them properly. Around 1898, some 40 claims in the area were taken up by the Red Cloud Mining Company. The company installed a new hoist and a 30-ton mill and was raising money through stock offerings to construct a tram from the mine to the mill. The company changed hands some time before 1915, however, and folded soon after. Just prior to this, six prospectors began working the Chuckwalla Placer Diggings near Chuckwalla Springs—this lasted about 15 years. The Red Cloud Mine was resurrected in 1931, when a small amalgamation plant was built, and continued operations until 1945.

With the onset of WWII, the demand for steel increased. However, the iron ore in the Eagle Mountain claims was protected as part of the Joshua Tree National Monument, established in 1936. Henry J. Kaiser had a steel mill at Fontana and the Vulcan iron mine near Kelso that supplied materials for his West Coast shipyards. Kaiser purchased the Eagle Mountain Mine and succeeded in having the boundaries of Joshua Tree Monument shifted to exclude Eagle Mountain. Kaiser constructed a rail line that connected to the Southern Pacific Railroad, and ore mining commenced in 1948. By 1971, the Eagle Mountain Mine produced 90% of California's iron.

At its height, the mine employed more than 4,000 people, making it the largest employer in Riverside County. The town of Eagle Mountain included schools, fire and police departments, 416 rental houses, 185 trailers, 383 dormitories, and 32 apartments. Kaiser Steel needed to provide medical care for the residents of Eagle Mountain, and medical care provided by the company eventually became Kaiser Permanente. The mine closed in 1983 because of economic factors and competition from abroad.

Water Conveyance

The Colorado River Aqueduct (CRA) is a water conveyance system operated by the Metropolitan Water District (MWD) of Southern California. Construction began in 1933 and water first flowed through the system in 1941. The CRA system carries Colorado River water, impounded at Lake Havasu on the California-Arizona border to the coastal and inland valleys of Southern California. The CRA stretches 242 miles from Parker Dam to Lake Mathews (formerly known as Cajalco Reservoir). Water from Lake Mathews is then distributed to local water districts in the Los Angeles basin and lower Santa Ana River drainage. The system is composed of 2 reservoirs, 5 pumping plants, 63 miles of canals, 92 miles of tunnels, 84 miles of buried conduit and siphons, and a filtration plant at La Verne, California. The nearest of these pump stations to the Project area is the Eagle Mountain Pump Lift, located 7 miles north of Desert Center.

Construction of the CRA involved creative engineering solutions and newly introduced equipment at the time of its construction. It also employed more than 35,000 people during an 8-year span of construction, and as many as 10,000 people at one time, making it Southern California's single largest work opportunity during the Great Depression. Prior to beginning construction, little to no infrastructure was present in the desert. Roadways, power lines, telephones, and water sources had to be built to accommodate the work effort required. Due to its many engineering merits, the CRA has been named a National Historic Civil Engineering Landmark by the American Society of Civil Engineers. Today, it is one of the principal water supply systems for Southern California.

Military Training Activities

Evidence of military training is present across the Colorado Desert. George Patton's DTC/C-AMA and Operation Desert Strike have left many artifacts, features, and sites across the region. The DTC/C-AMA was established in the 1940s to prepare U.S. troops for possible deployment to North Africa. The Project

vicinity is between areas where major military maneuvers took place and where camps were located, though evidence of small unit training maneuvers can be found within the Project area.

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Desert Training Center/California-Arizona Maneuver Area

In 1942, during WWII, General George S. Patton, Jr., established the DTC/C-AMA in a sparsely populated region of southeastern California, Arizona, and Nevada. Its purpose was to prepare tank, infantry, and air units for the harsh conditions of North Africa by practicing maneuvers, developing tactics, and field-testing equipment. The installation was in operation for two years and was the first simulated theater of operations in the United States. Its location was chosen for its unforgiving desert heat, rugged terrain, available telephone communications system, and accessibility by established railroads and highways.

Recent renewable energy projects in the region have identified many DTC/C-AMA-related sites, artifacts, and features. These resources were understood to be pieces of a larger historic district that represents an important piece of the military history of the nation. The DTC/C-AMA was the largest training facility and the only one of its kind in American military history, eventually encompassing more than 16,000 square miles. The tactical, strategic, and logistical doctrines developed and refined during the facility's life were applied overseas and undoubtedly helped to win WWII.

DTC/CAMA resource types include maneuver areas, divisional camps, small unit training areas, air facilities and crash sites, bivouacs, campsites, ranges, supply depots and railroad sidings, and hospitals and medical centers. Based on the proximity of Desert Center, sites within the Project area could be related to most of these property types. The following is a summary of properties known to be present in the vicinity of Desert Center.

Maneuver Areas: The Chuckwalla Valley. The greater Chuckwalla Valley was considered a maneuver area, consisting of 11,520 acres, and was considered "contaminated" immediately after the war. Units moved across this valley in many of the maneuvers, and bivouacs and defensive positions were established in many locations. Several passes adjacent to this valley also served as good training grounds for movement, attack, and defense.

Desert Center Airport. The Desert Center Army Airfield was first known as the Desert Center Airdrome and was operational beginning sometime in the winter of 1942–1943. The airfield was a sub-base of Thermal Army Airfield, as a support base for the Air Technical Services Command. The airport contained two paved runways, each measuring 5,000 by 150 feet, along with taxiways and a parking apron. More than 40 buildings were constructed at the airfield, including an operations building, powerhouse, control tower, pump house and well, and a 10,000-gallon water tower. Several crash sites are known to exist in the DTC/CAMA, particularly in those areas close to air facilities.

Air-to-ground ranges are also considered a part of air facilities. For the most part, air-to-ground gunnery practice focused on the toe of mountains. Bombs and .50-caliber shell casings from these activities have been found in the years following the Army's departure from the area. There were likely range markers established on these facilities, along with targets for the aircraft to fire upon.

Desert Center Observer's Camp. A camp was established immediately north of the small town of Desert Center, along the road to Camps Coxcomb and Iron Mountain. It was here that the maneuvers were evaluated, and deficiencies pointed out. The camp contained 112 tents, 5 shower buildings, and 8 latrines. The camp was also supplied with water through a well and pump along with a 4,000-gallon storage tank.

18th Ordnance Battalion Campsite. Located 5 miles east of Desert Center, this camp appears to encompass a watering point. The only structures reported included a capped well, a 50,000-gallon water tank, and a wooden tower. Tent stakes and other refuse have been found in an area that relate to this camp.

Small Arms Range – Desert Center. A small arms range was established southeast of the town of Desert Center on the north end of the Chuckwalla Mountains. Neither the type of weapons used here nor the units that used them are known.

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Desert Center Supply Depot. A quartermaster truck site was established near the small community of Desert Center. A rock alignment for the 496th Medium Ordnance Company remains northeast of the town. The rock alignment spells out "496 MEDCO." An ammunition depot was established northeast of Desert Center, although its location has not been examined or confirmed.

Desert Center Evacuation Hospital. An evacuation hospital was established near the town of Desert Center on both sides of the road to Eagle Mountain. The hospital site remains in good condition today and retains its basic design and layout. Many rock-lined walkways, roads, symbols, tent sites, and other activity areas remain in place. Artifacts are dispersed across the site and in dumps.

Desert Strike. One brief military training exercise, known as Desert Strike, took place in the desert maneuver area in May 1964. Amidst the nuclear arms race, the U.S. Strike Command conducted the joint Army and Air Force field training exercise for the major combat organizations and their support units in employing tactical nuclear and conventional weapons. Army and Air Force troop units were trained in passive and active tactics, as well as concepts and procedures for joint operations.

The exercise was a two-sided enactment, with fictitious world powers "Calonia" and "Nezona" sharing a common border at the Colorado River. The premise of the conflict between these two entities, each led by a Joint Task Force, was a dispute over water rights. Major tactical operations during the exercise included deep armor thrusts, defensive operations along natural barriers, counterattacks including airmobile and airborne assaults, and the simulated use of nuclear weapons. The Air Force provided fighter, air defense, interdiction, counterair reconnaissance, and troop carrier operations in support of both joint task forces.

Agriculture/Ranching

Agriculture became an important industry, second only to mining, by the late 1850s. Homesteading formed the foundation for California's agricultural economy in the nineteenth century, and the official passage of the Homestead Act in 1862 opened vast areas of the public domain to private citizens. The Desert Land Act of 1877 also promoted the acquisition of open tracts of land, with an entitlement to 640 acres for each applicant, who were primarily speculators. Generally, lands that fell under this act were marginal for sustained agriculture. Transforming arid land into productive farming and grazing lands was a key factor in development. Although agriculture became an important industry in the Palo Verde Valley near Blythe and the Colorado River, significant agricultural development did not take place near the Project area until the late twentieth century.

The federal government and the State of California decided to invest in the cultivation of the jojoba plant as an alternative to sperm whale oil. A tax-break was given to private growers, and speculators began buying up acreage in the Chuckwalla Valley and other California deserts. In the late 1970s and early 1980s, farmers purchased land in Chuckwalla Valley and began commercially growing jojoba. Hundreds of farms were established in the 1980s by private farmers hoping to make a large profit. Approximately 6,000 acres of jojoba was planted in Chuckwalla Valley.

However, the boom was short lived because the jojoba plant grows slowly, and it takes years for plants to produce oil. Many jojoba farms were converted to other crops, including asparagus. Currently, there is only one active jojoba farm in the Chuckwalla Valley, La Ronna Jojoba Company Farm. La Ronna Jojoba Company Farm is a research/mother block of a variety of cultivars.

3.6.2. Regulatory Framework

Numerous laws and regulations require federal, state, and local agencies to consider the effects a project may have on cultural resources. These laws and regulations stipulate a process for compliance, define the responsibilities of the various agencies proposing the action, and prescribe the relationship among other involved agencies.

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3.6.2.1. Federal Laws, Regulations, and Policies

National Environmental Policy Act. The National Environmental Policy Act (NEPA) of 1969, as amended, requires analysis of potential environmental impacts to important historic, cultural, and natural aspects of our national heritage for major federal actions that may have a significant effect on the human environment (42 USC 4321-4375; Title 40 CFR Sections 1500-1508). The discussion of impacts pursuant to NEPA is defined by the Council on Environmental Quality regulations and requires consideration of the temporal scale, spatial extent, and intensity of the change that would be introduced by the Linear Facility Routes associated with the Project, as these traverse BLM-administered land.

National Historic Preservation Act. The federal government has developed laws and regulations designed to protect cultural resources that may be affected by actions undertaken, regulated, or funded by federal agencies. Under the National Historic Preservation Act (NHPA) of 1966, the Linear Facility Routes associated with the Project are considered a federally licensed "undertaking" per Title 36 Code of Federal Regulations (CFR) Section 800.2(o) and subject to compliance with Section 106 of the NHPA, as amended. Under these guidelines, federal agencies are required to identify cultural resources that may be affected by Project actions, assess the significance of these resources and their eligibility for inclusion on the National Register of Historic Places (NRHP) as per 16 United States Code (USC) 470w(5), and consult with the Advisory Council on Historic Preservation regarding Project effects on significant resources. Eligibility is based on criteria defined by the U.S. Department of the Interior. Generally, districts, archaeological sites, buildings, structures, and objects that possess integrity are potentially eligible for inclusion on the NRHP under the following criteria (Title 36 CFR Section 60.4):

- A. that are associated with events that have made a significant contribution to the broad patterns of our history; or
- B. that are associated with the lives of persons significant in our past; or
- C. that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess artistic value, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D. that have yielded, or may be likely to yield, information important in prehistory or history.

If a cultural resource is determined to be an eligible historic property under Title 36 CFR Section 60.4, then Section 106 requires that the effects of the proposed undertaking be assessed and considered in planning the undertaking. According to Title 36 CFR Section 800, Regulations of the Advisory Council on Historic Preservation Governing the Section 106 Review Process, the lead agency, State Historic Preservation Officer (SHPO), and Advisory Council on Historic Preservation:

...should be sensitive to the special concerns of Indian tribes in historic preservation issues, which often extend beyond Indian lands to other historic properties. ...When an undertaking may affect properties of historic value to an Indian tribe on non-Indian lands, the consulting parties shall afford such tribe the opportunity to participate as interested persons. Traditional cultural leaders and other Native Americans are considered interested persons with respect to undertakings that my affect historic properties of significance to such persons.

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Desert Renewable Energy Conservation Plan Programmatic Agreement. Compliance with Section 106 of the NHPA will be guided by the Desert Renewable Energy Conservation Plan (DRECP) Programmatic Agreement (PA) because portions of the Project area and associated gen-tie transmission lines are within the Riverside East Solar Energy Zone and within the DRECP Land Use Plan Amendment Development Focus Area, as defined in the Final Environmental Impact Statement (BLM 2015a). The subsequent DRECP PA resulted from consultation among agencies, tribes, and other interested parties in defining how the Bureau of Land Management (BLM) will conduct Section 106 compliance within the DRECP Land Use Plan Amendment Area. The DRECP PA establishes a process that guides BLM in fulfilling its responsibilities under Section 106 of the NHPA for proposed renewable energy projects sited on public lands administered by BLM. Importantly, Section II of the DRECP PA directs BLM to obtain the active involvement of the SHPO, Advisory Council on Historic Preservation, other federal agencies, federally recognized tribal governments and Native American organizations, other interested parties, and the public. BLM is to engage tribes and tribal organizations at the earliest stages of assessing a proposed undertaking to "identify areas which may be of religious and cultural significance to them and which may be eligible for the []NRHP" (Section II.E.2 of BLM 2015b).

Archaeological Resources Protection Act. If federal or Indian lands are involved, the Archaeological Resources Protection Act may impose additional requirements on an agency. The act (1) prohibits unauthorized excavation on federal and Indian lands, (2) establishes standards for permissible excavation, (3) prescribes civil and criminal penalties, (4) requires agencies to identify archaeological sites, and (5) encourages cooperation between federal agencies and private individuals.

Antiquities Act of 1906. The Antiquities Act of 1906 states, in part, that any person who shall appropriate, excavate, injure, or destroy any historic or prehistoric ruin or monument, or any object of antiquity, situated on lands owned or controlled by the Government of the United States, without the permission of the Secretary of the Department of the Government having jurisdiction over the lands on which said antiquities are situated, shall upon conviction, be fined in a sum of not more than \$500 or be imprisoned for a period of no longer than 90 days, or shall suffer both fine and imprisonment, in the discretion of the court.

Federal Land Policy Management Act. The broadest framework for managing cultural resources on public lands is the Federal Land Policy and Management Act (FLPMA) of 1976 (43 U.S.C. ch. 35 § 1701 et seq.). This law directs the BLM to manage the multiple use of public lands in a manner that will "protect the quality of... historical... resources, and archeological values" (BLM 2004:8100.03.H). Under this law, cultural resources do not need to be determined eligible for the NRHP to receive consideration. Additionally, the Act provides for periodic inventorying of the cultural resources on public land as well as the enforcement of public land laws and regulations (BLM 2004:8100.03.H).

Native American Graves Protection and Repatriation Act. The Native American Graves Protection and Repatriation Act was enacted on November 16, 1990, to address the rights of lineal descendants, Indian tribes, and Native Hawaiian organizations to Native American cultural items, including human remains, funerary objects, sacred objects, and objects of cultural patrimony. The act assigned implementation responsibilities to the Secretary of the Interior.

If human remains are encountered on federal lands, this act states that the responsible federal official must be notified immediately and that no further disturbance shall occur in the area until clearance is given by the responsible federal official (Title 43 CFR Section 10.4). If the remains are determined to be Native American Indian, the federal agency will then notify the appropriate federally recognized Native American tribe and initiate consultation.

3.6.2.2. State Laws, Regulations, and Policies

There are numerous state regulations and policies that direct management of cultural resources on state lands and by state agencies. The following is a discussion of the most pertinent laws affecting the Project and impact analysis from a State of California and California Environmental Quality Act (CEQA) perspective. These laws identify four types of resources: historical resources, unique archaeological resources, human remains, and tribal cultural resources (TCRs).

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California Environmental Quality Act

Historical Resources. Under CEQA, cultural resources listed on, or determined to be eligible for listing on, the California Register of Historical Resources (CRHR) or a local register must meet the CEQA definition of "historical resources" and must be given consideration in the CEQA process. For this EIR, effects on historical resources may be considered impacts of the Project. Under the California Code of Regulations (CCR), Title 14, Chapter 11.5, properties listed on or formally determined to be eligible for listing on the NRHP are automatically eligible for listing on the CRHR. A resource is generally considered to be historically significant under CEQA if it meets the criteria for listing on the CRHR. These criteria are essentially the same as the eligibility criteria for the NRHP. In addition to being at least 50 years old, a resource must meet at least one (and may meet more than one) of the following four criteria:

- Criterion 1—It is associated with events that have made a significant contribution to the broad patterns
 of local or regional history, or the cultural heritage of California or the United States;
- **Criterion 2**—It is associated with the lives of persons important to local, California, or national history;
- Criterion 3—It embodies the distinctive characteristics of a type, period, or method of construction, or represents the work of a master or possesses high artistic values; or
- Criterion 4—It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

In addition, historical resources must also possess integrity of location, design, setting, materials, workmanship, feeling, and association.

Unique Archaeological Resources. Additionally, CEQA states that it is the responsibility of the lead agency to determine whether the Project will have a significant effect on "unique" archaeological resources. An archaeological artifact, object, or site can meet CEQA's definition of a unique archaeological resource even if it does not qualify as a historical resource (California Public Resources Code, Section 21083.2[g]; 14 CCR 15064.5[c][3]). An archaeological artifact, object, or site is considered a unique archaeological resource if "it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria" (California Public Resources Code, Section 21083.2[g]):

- Contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information.
- Has a special and particular quality such as being the oldest of its type or the best available example of its type.
- Is directly associated with a scientifically recognized important prehistoric or historic event or person.
- If it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require that reasonable efforts be taken to preserve these resources in place or provide mitigation measures.

Human Remains. California Public Resources Code, Sections 5097.98(b) and (e), require a landowner on whose property Native American human remains are found to limit further development activity in the vicinity until the landowner confers with the Native American Heritage Commission-identified Most Likely Descendants to consider treatment options. In the absence of Most Likely Descendants or of a treatment acceptable to all parties, the landowner is required to re-inter the remains elsewhere on the property in a location not subject to further disturbance. Section 5097.99 establishes as a felony the acquisition, possession, sale, or dissection with malice or wantonness Native American remains or funerary artifacts. Finally, Section 5097.991 establishes as state policy the repatriation of Native American remains and funerary artifacts.

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California Health and Safety Code Section 7050 makes it a misdemeanor to mutilate, disinter, wantonly disturb, or willfully remove human remains found outside a cemetery and further requires a project owner to halt construction if human remains are discovered and to contact the county coroner.

California Assembly Bill 52. Signed into law in September 2014, California Assembly Bill 52 (AB 52) created a new class of resources – tribal cultural resources (TCRs) – for consideration under CEQA. TCRs may include sites, features, places, cultural landscapes, sacred places, or objects with cultural value to a California Native American tribe that are listed or determined to be eligible for listing in the CRHR, included in a local register of historical resources, or a resource determined by the lead CEQA agency, in its discretion and supported by substantial evidence, to be significant and eligible for listing on the CRHR. AB 52 requires that the lead CEQA agency consult with California Native American tribes that have requested consultation for projects that may affect tribal cultural resources. The lead CEQA agency shall begin consultation with participating Native American tribes prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report. Under AB 52, a project that has potential to cause a substantial adverse change to a tribal cultural resource constitutes a significant effect on the environment unless mitigation reduces such effects to a less-than-significant level.

3.6.2.3. Local Laws, Regulations, and Policies

Riverside County General Plan. The purpose of the Cultural Resources section of the Multipurpose Open Space Element of the Riverside County (County) General Plan is to protect and preserve cultural (both archaeological and historic) resources. The following policies included in the Multipurpose Open Space Element relate to the Project with regards to cultural resources (Riverside County 2015).

Multi-Purpose Open Space Element:

- Policy OS 19.1. Cultural resources (both prehistoric and historic) are a valued part of the history of the County of Riverside.
- Policy OS 19.2. The County of Riverside shall establish a Cultural Resources Program in consultation with tribes and the professional cultural resources consulting community that, at a minimum would address each of the following: application of the Cultural Resources Program to projects subject to environmental review; government-to-government consultation; application processing requirements; information database(s); confidentiality of site locations; content and review of technical studies; professional consultant qualifications and requirements; site monitoring; examples of preservation and mitigation techniques and methods; curation and the descendant community consultation requirements of local, state and federal law. (Action Item 144)
- Policy OS 19.3. Review proposed development for the possibility of cultural resources and for compliance with the cultural resources program.

Policy OS 19.4. To the extent feasible, designate as open space and allocate resources and/or tax credits to
prioritize the protection of cultural resources preserved in place or left in an undisturbed state. (Action Item
145)

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Policy OS 19.5. Exercise sensitivity and respect for human remains from both prehistoric and historic time periods and comply with all applicable laws concerning such remains.

Land Use Element:

Policy LU 9.1. Provide for permanent preservation of open space lands that contain important natural resources, cultural resources, hazards, water features, watercourses including arroyos and canyons, and scenic and recreational values.

The proposed Project and the County's government-to-government tribal consultation in accordance with AB 52 would be consistent with these County policies.

3.6.3. Methodology for Analysis

3.6.3.1. Cultural Resources Study Area

The study area for direct impacts to cultural resources is defined as all areas that would be subject to ground-disturbing activity associated with the development of the Project, which includes the 988 acres of private land in the Project area under County jurisdiction and 2,900 acres of land in the Project area managed by the BLM.

Indirect impacts may occur during construction, operation, maintenance, or the decommissioning of the Project. These impacts result from the introduction of visible, auditory, or atmospheric intrusions that affect the setting of the Project area. The indirect impacts study area includes a 1-mile radius around the privately owned parcels within the Project area.

The direct and indirect impacts areas for the CEQA analysis of cultural resources are referred to herein as the Cultural Resources Study Area.

Definitions of Cultural Resources

A cultural resource is defined as any object or specific location of past human activity, occupation, or use identifiable through historical documentation, inventory, or oral evidence. Cultural resources can be separated into four categories: archaeological, built environment, unique archaeological resources, and Tribal Cultural Resources.

Archaeological resources include both historic-era and prehistoric remains of past human activity. Historicera resources can consist of structural remnants (such as cement foundations), historic-era objects (such as bottles and cans), and sites (such as refuse deposits or scatters). Prehistoric resources can include lithic scatters, ceramic scatters, quarries, habitation sites, temporary camps/rock rings, ceremonial sites, and trails.

Built environment resources consist of standing historic-era buildings and structures, the latter of which include canals, roads and trails, bridges, ditches, and cemeteries.

Pursuant to State CEQA Guidelines Section 5064.5, **historical resource** is a term used to define a prehistoric or historic-aged resource that is recommended eligible for, determined eligible for, or listed in the CRHR. Any resource that is determined eligible or listed on the NRHP is automatically eligible for listing in the CRHR and is considered a significant resource for the purpose of this analysis.

Unique archaeological resource, as defined above in Section 3.6.2, Regulatory Framework, is also considered a significant resource for the purpose of this analysis.

Within the State of California there are provisions in CEQA, its guidelines, and other provisions of the California Public Resources Code for the protection and preservation of significant cultural resources (i.e., "historical resources" and "unique archaeological resources"). The CEQA Guidelines provide three ways in which a resource can be a "historical resource," and thus a cultural resource meriting analysis: (1) the resource is listed on the CRHR; (2) the resource is included in a local register of historical resources (pursuant to Section 5020.1(k) of the California Public Resources Code), or identified as significant in an historical resources survey (meeting the criteria in Section 5024.1(g) of the California Public Resources Code); or (3) the lead agency determines the resource is "historically significant" by assessing CRHR listing guidelines that parallel the federal criteria (14 CCR 15064.5[a][1]-[3]). To qualify as a historical resource under (1) or (3), the resource must also retain the integrity of its physical identity that existed during its period of significance. Integrity is evaluated with regard to retention of location, design, setting, materials, workmanship, feeling, and association (14 CCR 4852[c]). Finally, under California law, Native American human remains and associated grave goods are granted special consideration.

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Mitigation of cultural resources that are found to be ineligible for CRHR listing is not required (Title 36 CFR Section 800 and 14 CCR 15064.5[c][4)]).

Tribal Cultural Resource (TCR)

As previously discussed, TCRs include sites, features, places, cultural landscapes, and sacred places or objects that have cultural value or significance to a Tribe. To qualify as a TCR, the resource must either: (1) be listed on, or be eligible for listing on, the California Register of Historical Resources or other local historic register; or (2) constitute a resource that the lead agency, at its discretion and supported by substantial evidence, determines should be treated as a TCR (PRC Section 21074(a)(2)). Native American tribes that are traditionally and culturally affiliated with a geographic area can provide lead agencies with expert knowledge of TCRs.

3.6.3.2. Previous Studies

The records search results indicate that at least 14-<u>39</u> previous investigations have been conducted within the Cultural Resources Study Area since 1973. Five-Fourteen of these studies appear to include portions of or intersect the Project's direct impact area. The One of the most recent of these studies was conducted by PaleoWest in 2020 and 2021 for the Oberon Solar Project (Knabb et al. 2021). The Oberon Solar Project inventoried approximately six-49 percent (56-1,922 acres) of the current Project area.

3.6.3.3. Previously Identified Resources

Results of the record search indicate that <u>183-619</u> cultural resources have been previously recorded in the Cultural Resources Study Area. These resources include <u>11-72</u> prehistoric sites, <u>73-222</u> historic-period sites, <u>4-11</u> multicomponent sites, <u>13-37</u> built-environment resources, <u>2-3</u> districts, <u>20-117</u> prehistoric isolates, <u>56-147</u> historic period isolated artifacts, and <u>4-10</u> unknown resources. <u>Thirty-eightEighty-two</u> of these resources were documented in the Project's direct impact area. These resources include <u>4-6 prehistoric sites</u>, <u>22</u> historic-period sites, <u>1 multi-component sites</u>, <u>1-8</u> built-environment resources, 2 districts, <u>3 prehistoric isolated artifacts</u>, and <u>31-39</u> historic period isolated artifacts (Table 3.6-1).

Primary No.	Trinomial No.	Age	Туре	Description	Previous CRHR Eligibility Determination
33-006825		Historic	Site	Well, boiler, and cement reservoir	Not evaluated
33-006836	CA-RIV-10759H	Historic	Site	Desert Center Army Airfield	Individually not eligible; contributor to the DTCCL

Table 3.6-1. Previously Recorded Cultural Resources within the Project's Direct Impact Area

Primary No.	Trinomial No.	Age	Туре	Description	Previous CRHR Eligibility Determination
<u>33-015088</u>		<u>Historic</u>	<u>Site</u>	Refuse scatter	Not evaluated
33-015089		<u>Multi-</u> component	<u>Site</u>	Prehistoric ceramics with DTC- related tank tracks and refuse	Individually not eligible; contributor to DTCCL; contributor to <u>Prehistoric Trails</u> <u>Network Cultural</u> Landscape (PTNCL)
33-015090		<u>Historic</u>	<u>Site</u>	Refuse scatter	Not evaluated
33-018242	CA-RIV-9381	<u>Historic</u>	<u>Object</u>	MWD survey marker	Not evaluated
<u>33-018268</u>		<u>Prehistoric</u>	<u>Site</u>	Quartz reduction locus	Individually eligible; contributor to PTNCL
<u>33-018269</u>	<u>CA-RIV-9394</u>	<u>Prehistoric</u>	<u>Site</u>	Lithic and ceramic scatter	Individually eligible; contributor to PTNCL
<u>33-018270</u>	<u>CA-RIV-9395</u>	<u>Prehistoric</u>	<u>Site</u>	Lithic scatter	Individually eligible; contributor to PTNCL
33-018391	CA-RIV-11903	<u>Prehistoric</u>	<u>Site</u>	DTC-related refuse	Not evaluated
<u>33-018392</u>	CA-RIV-11904	<u>Historic</u>	<u>Site</u>	DTC-related refuse scatter	Not evaluated
33-018404	CA-RIV-9483	<u>Historic</u>	<u>Site</u>	DTC-related refuse scatter	Not evaluated
33-018523		<u>Prehistoric</u>	<u>Isolate</u>	Quartz flake	Not evaluated
33-018530		<u>Historic</u>	<u>Isolate</u>	<u>Tobacco can</u>	Not evaluated
<u>33-018612</u>		<u>Historic</u>	<u>Isolate</u>	<u>Hazel Atlas broken jar "16"</u>	Not evaluated
<u>33-018613</u>		<u>Historic</u>	<u>Isolate</u>	Isolated brown glass bottle	Not evaluated
33-019415	CA-RIV-9854H	Historic	Structure	Blythe-Eagle Mountain Transmission Line	Not eligible
<u>33-019419</u>	<u>CA-RIV-9858H</u>	<u>Historic</u>	<u>Structure</u>	Mecca-Blythe-Ehrenberg Highway	Not evaluated
33-022247	CA-RIV-11584H	Historic	Site	Linear Berms	Not evaluated
33-022250		Historic	Isolate	Fragment of green glass bottle	Not eligible
33-022251		Historic	Isolate	Metal storage can with pain can- style lid	Not eligible
33-022252		Historic	Isolate	Metal hole-in-top can with a lap seam	Not eligible
33-022254		Historic	Isolate	Crushed metal vent hole can	Not eligible
33-022255		Historic	Isolate	Metal hole-in-top can	Not eligible
33-022256		Historic	Isolate	Metal hole-in-top can	Not eligible
33-022257		Historic	Isolate	Metal hole-in-top can	Not eligible
33-022258		Historic	Isolate	Metal can with lap seams	Not eligible
33-022259		Historic	Isolate	Metal hole-in-top can	Not eligible
33-022260		Historic	Isolate	Pick opened metal hole-in-top can	Not eligible
33-022261		Historic	Isolate	Green glass Coca-Cola bottle fragment	Not eligible
33-022262		Historic	Isolate	Green glass Coca-Cola bottle	Not eligible
33-022263		Historic	Isolate	Two green glass Coca-Cola bottles	Not eligible
33-022264		Historic	Isolate	Clear glass Coca-Cola bottle with a screw-on cap	Not eligible
33-022265		Historic	Isolate	Metal hole-in-top can	Not eligible
33-022266		Historic	Isolate	Metal hole-in-top can	Not eligible

Primary No.	Trinomial No.	Age	Туре	Description	Previous CRHR Eligibility Determination
33-022267		Historic	Isolate	Metal hole-in-top can	Not eligible
33-022268		Historic	Isolate	Metal hole-in-top can	Not eligible
33-022269		Historic	Isolate	Metal knife cut hole-in-top can	Not eligible
33-022270		Historic	Isolate	Metal hole-in-top can	Not eligible
33-022271		Historic	Isolate	Metal hole-in-top can with lap seams	Not eligible
33-022272		Historic	Isolate	Punched open metal hole-in-top can	Not eligible
33-022273		Historic	Isolate	Two metal hole-in-top cans	Not eligible
33-022274		Historic	Isolate	Cut open metal hole-in-top can	Not eligible
33-022275		Historic	Isolate	Weathered green glass Coca-Cola bottle	Not eligible
33-022276		Historic	Isolate	Weathered green glass Coca-Cola bottle	Not eligible
33-022279		Historic	Isolate	Picked open metal hole-in-top can	Not eligible
33-022280		Historic	Isolate	Knife cut metal hole-in-top can	Not eligible
33-022281		Historic	Isolate	Weathered green glass Coca-Cola bottle	Not eligible
33-022282		Historic	Isolate	Punched open metal hole-in-top can	Not eligible
33-022283		Historic	Isolate	Church key-opened round metal hole-in-top can	Not eligible
33-023675	CA-RIV-11595	Historic	Site	DTC/AMA-C Habitation Site (496th Medium Ordnance Company Camp)	Individually eligible; contributor to the DTCCL
<u>33-023700</u>	<u>CA-RIV-12889</u>	<u>Historic</u>	<u>Site</u>	DTC-related bivouac or temporary camp, possibly 18th Ordnance Battalion Camp	Individually not eligible; contributor to DTCCL
<u>33-028640</u>	CA-RIV-12890	<u>Historic</u>	<u>Site</u>	Refuse scatter	Individually not eligible; contributor to DTCCL
		Prehistoric	District	Prehistoric Trails Network Cultural Landscape (PTNCL)	Eligible
		Historic	District	Desert Training Center Cultural Landscape (DTCCL)	Eligible
	<u>19-387-EM-</u> <u>020H</u>	<u>Historic</u>	<u>Site</u>	Fire ring and tank and armored vehicle tracks	Individually not eligible; contributor to DTCCL
	<u>19-387-EM-</u> <u>023H</u>	<u>Historic</u>	<u>Structure</u>	<u>Road remnant</u>	Not evaluated
	<u>19-387-EM-</u> <u>024H</u>	<u>Historic</u>	<u>Structure</u>	Road remnant	Not evaluated
	<u>19-387-EM-025</u>	<u>Prehistoric</u>	<u>Site</u>	Lithic scatter	Not evaluated
	<u>19-387-KH-</u> <u>014H</u>	<u>Historic</u>	<u>Site</u>	DTC foxhole	Individually not eligible; contributor to DTCCL
	<u>19-387-KH-016</u>	Prehistoric	<u>Site</u>	Lithic scatter	Individually eligible, contributor to PTNCL
	<u>19-387-KJ-001H</u>	<u>Historic</u>	<u>Site</u>	Artifact scatter, rock feature, and tank tracks	Not evaluated

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Primary No.	Trinomial No.	Age	Туре	Description	Previous CRHR Eligibility Determination
	<u>19-387-KJ-002H</u>	<u>Historic</u>	<u>Site</u>	DTC-related ammunition debris scatter	Not evaluated
	<u>19-387-KJ-003H</u>	<u>Historic</u>	<u>Site</u>	DTC-related ammunition debris and depression	Not evaluated
	<u>19-387-KJ-004H</u>	<u>Historic</u>	<u>Site</u>	Military-related artifact scatter	Not evaluated
	<u>19-387-KJ-005H</u>	<u>Historic</u>	<u>Site</u>	Military-related artifact scatter	Not evaluated
	<u>19-387-KJ-006H</u>	<u>Historic</u>	<u>Site</u>	WWII-era munitions debris scatter	Not evaluated
	<u>19-387-KJ-008H</u>	<u>Historic</u>	<u>Site</u>	DTC-related munition debris	Not evaluated
	<u>19-387-KJ-010</u>	<u>Prehistoric</u>	<u>Site</u>	Lithic scatter	Not evaluated
	<u>19-387-KJ-BE-</u> <u>009H</u>	<u>Historic</u>	<u>Object</u>	<u>County survey marker (iron pipe</u> with brass cap)	Not evaluated
	<u>19-387-WH-</u> <u>008H</u>	<u>Historic</u>	<u>Site</u>	DTC-related artifact concentration	Not evaluated

3.6.3.4. Phase I Cultural Resource Survey

Chronicle Heritage conducted a Phase I survey of the portion of the Project area under County jurisdiction cultural resources surveys between March 20, 2023, and April 27, 2023, with a follow-up survey completed November 21, 2023. Survey crews conducted an intensive pedestrian survey of the 932-1,966 acres of the Project area, consisting of approximately 1,030 acres of BLM-managed lands and 932 acres of privately owned lands. The remaining 1,92256 acres of private land-had been previously surveyed by PaleoWest in 2020 and 2021 as part of the Oberon Solar Project (Knabb et al. 2021). The surveys documented 25-73 cultural resources in the direct impacts area that included 4-31 archaeological sites, 2 8 historic built-environment resources, 2 districts, and 17-32 isolated occurrences (Table 3.6-2).

Assessments of significance found that <u>four eight</u> cultural resources (Prehistoric Trails Network Cultural Landscape [PTNCL], the Desert Training Center Cultural Landscape [DTCCL], <u>P-33-015089, 33-023700, 19-387-EM-020H, 19-387-KH-014H,</u> the Desert Center Army Airfield [P-33-006836], and the 496th Medium Ordinance Company [P-33-023675] are eligible for listing on the CRHR either individually or as contributors to historic districts. These cultural resources can be considered historical resources under CEQA. Resources identified during surveys portions of the Project on BLM-managed lands were evaluated for eligibility for listing on the CRHR as part of the current study. None of the resources identified on BLM-managed lands were recommended eligible for the NRHP. A summary of each identified resource is provided below.

Primary No.	Trinomial/ Temp. No.	Age	Туре	Description	CRHR Eligibility
33-006825		Historic	Site	Well, boiler, and cement reservoir	Not Eligible <u>*</u>
33-006836	CA-RIV-10759H	Historic	Site	Desert Center Army Airfield	Individually not eligible; contributor to the DTCCL <u>*</u>
33-015088		<u>Historic</u>	<u>Site</u>	Refuse scatter	Not evaluated*
<u>33-015089</u>		<u>Historic</u>	<u>Site</u>	DTC-related tank tracks and refuse	Individually not eligible, contributor to DTCCL*
33-015090		<u>Historic</u>	<u>Site</u>	Refuse scatter	Not evaluated*
33-018242	<u>CA-RIV-9381</u>	<u>Historic</u>	<u>Object</u>	MWD survey marker	Not evaluated*

No. Age Type Description CRHR Eligibility 33:013268 Prehistoric Site Quartz reduction locus No longer present*1 33:013262 CA-RIV-3935 Prehistoric Site Lithic and ceramic scatter No longer present*1 33:013270 CA-RIV-19304 Printstoric Site DTC-related refuse Not evaluated* 33:013231 CA-RIV-19483 Historic Site DTC-related refuse scatter Not evaluated* 33:013232 Prehistoric Isolate Dacacc can Not evaluated* 33:013612 Historic Isolate Ibacc ocan Not evaluated* 33:013415 CA-RIV-3954H Historic Structure Biythe-Eagle Mountain Transmission Not evaluated* 33:013415 CA-RIV-3958H Historic Isolate Mote avaluated* Not evaluated* 3:012226 Historic Isolate Mote avaluated* Not evaluated* 3:022255 Historic Isolate Metal hole-in-top can Not Eligible* 3:022261 Historic Isolate	Primary	Trinomial/ Temp.				
33-018269 CA-RIV-9394 Prehistoric Site Lithic scatter No longer present** 33-018269 CA-RIV-3395 Prehistoric Site DTC-related refuse Not evaluated* 33-018392 CA-RIV-11904 Historic Site DTC-related refuse scatter Not evaluated* 33-018302 CA-RIV-11904 Historic Site DTC-related refuse scatter Not evaluated* 33-018320 CA-RIV-1903 Historic Isolate Obacco can Not evaluated* 33-018520 Historic Isolate Tobacco can Not evaluated* 33-018451 CA-RIV-9854H Historic Structure Blythe-Eagle Mountain Transmission Not evaluated* 33-022247 CA-RIV-9854H Historic Structure Meca-Blythe-Ehrenberg Highway Not evaluated* 33-022255 Historic Isolate Metal hole-in-top can Not Eligible* 33-022261 Historic Isolate Metal hole-in-top can Not Eligible* 33-022263 Historic Isolate Green glass Coca-Cola bottle Not Eligibl		-	Age	Туре	Description	CRHR Eligibility
33.018270 CA-RIV-9395 Prehistoric Site Lithic scatter No longer present*1 33.018391 CA-RIV-11903 Prehistoric Site DTC-related refuse scatter Not evaluated* 33.018392 CA-RIV-11903 Historic Site DTC-related refuse scatter Not evaluated* 33.018404 CA-RIV-19483 Historic Isolate Quartz flake Not evaluated* 33.018523 Prehistoric Isolate Iobacco can Not evaluated* 33.018612 Historic Isolate Iobacco can Not evaluated* 33.019415 CA-RIV-9858H Historic Structure Blythe-Fagle Mountain Transmission Not evaluated* 33.022245 Historic Isolate Metal hole-in-top can Not Eligible* 33.022255 Historic Isolate Metal onei-in-top can Not Eligible* 33.022256 Historic Isolate Metal onei-in-top can Not Eligible* 33.022256 Historic Isolate Metal onei-in-top can Not Eligible* 33.022261 Historic<	33-018268		<u>Prehistoric</u>	<u>Site</u>	Quartz reduction locus	No longer present*+
33-018391 CA-RIV-11903 Prehistoric Site DTC-related refuse scatter Not evaluated* 33-018404 CA-RIV-11904 Historic Site DTC-related refuse scatter Not evaluated* 33-018523 Prehistoric Isolate Quartz flake Not evaluated* 33-018523 Prehistoric Isolate Quartz flake Not evaluated* 33-018621 Historic Isolate Isolate Isolate Not evaluated* 33-018612 Historic Isolate Isolate dirown glass bottle Not evaluated* 33-018613 Historic Structure Blythe-Eagle Mountain Transmission Not eligible* 33-022247 CA-RIV-9858H Historic Isolate Metal hole-in-top can Not Eligible* 33-022256 Historic Isolate Metal hole-in-top can Not Eligible* 33-022256 Historic Isolate Metal hole-in-top can Not Eligible* 33-022261 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022263 Historic Iso	33-018269	CA-RIV-9394	<u>Prehistoric</u>	<u>Site</u>	Lithic and ceramic scatter	No longer present*+
33-018392 CA-RIV-11904 Historic Site DTC-related refuse scatter Not evaluated* 33-018323 Prehistoric Isolate Quartz flake Not evaluated* 33-018523 Prehistoric Isolate Quartz flake Not evaluated* 33-018523 Historic Isolate Totacco can Not evaluated* 33-018520 Historic Isolate Isolate Isolate Not evaluated* 33-018612 Historic Isolate Isolate Isolate Not evaluated* 33-019415 CA-RIV-9854H Historic Structure Blythe-Eagle Mountain Transmission Une Not evaluated* 33-022255 Historic Isolate Metal hole-in-top can Not Eligible* 33-022256 Historic Isolate Metal hole-in-top can Not Eligible* 33-022259 Historic Isolate Metal hole-in-top can Not Eligible* 33-022261 Historic Isolate Metal hole-in-top can Not Eligible* 33-022265 Historic Isolate Metal hole-in-top ca	33-018270	CA-RIV-9395	<u>Prehistoric</u>	<u>Site</u>	Lithic scatter	No longer present*+
33-018404 CA-RIV-9483 Historic Site DTC-related refuse scatter Not evaluated* 33-018523 Prehistoric Isolate Quartz flake Not evaluated* 33-018530 Historic Isolate Tobacco can Not evaluated* 33-018612 Historic Isolate Isolate Isolate Not evaluated* 33-018613 Historic Isolate Isolate Isolate Not evaluated* 33-019415 CA-RIV-9854H Historic Structure Biythe-Eagle Mountain Transmission Not evaluated* 33-022255 Historic Isolate Mecca-Biythe-Entrenberg Highway Not Eligible* 33-022256 Historic Isolate Metal hole-in-top can Not Eligible* 33-022259 Historic Isolate Metal hole-in-top can Not Eligible* 33-022261 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022262 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022265 Historic Isolate	<u>33-018391</u>	CA-RIV-11903	<u>Prehistoric</u>	<u>Site</u>	DTC-related refuse	Not evaluated*
33-018523 Prehistoric Isolate Quartz flake Not evaluated* 33-018530 Historic Isolate Tobacco can Not evaluated* 33-018512 Historic Isolate Hazel Atlas broken jar "16" Not evaluated* 33-018612 Historic Isolate Hazel Atlas broken jar "16" Not evaluated* 33-018613 Historic Isolate Bythe-Eagle Mountain Transmission Not evaluated* 33-019419 CA-RIV-9858H Historic Structure Biythe-Ehrenberg Highway Not evaluated* 33-022255 Historic Isolate Metal hole-in-top can Not Eligible* 33-022256 Historic Isolate Metal can with lap seams Not Eligible* 33-022261 Historic Isolate Green glass Coa-Cola bottle Not Eligible* 33-022262 Historic Isolate Green glass Coa-Cola bottle Not Eligible* 33-022265 Historic Isolate Two green glass Coa-Cola bottle Not Eligible* 33-022265 Historic Isolate Metal hole-in-top can	<u>33-018392</u>	CA-RIV-11904	<u>Historic</u>	<u>Site</u>	DTC-related refuse scatter	Not evaluated*
33-018530 Historic Isolate Tobacco can Not evaluated* 33-018512 Historic Isolate Hazel Atlas broken jar "16" Not evaluated* 33-018613 Historic Isolate Isolated brown glass bottle Not evaluated* 33-019415 CA-RIV-9854H Historic Structure Mecca-Blythe-Ehrenberg Highway Not evaluated* 33-022275 CA-RIV-19858H Historic Structure Mecca-Blythe-Ehrenberg Highway Not Eligible* 33-022256 Historic Isolate Metal hole-in-top can Not Eligible* 33-022257 Historic Isolate Metal hole-in-top can Not Eligible* 33-022256 Historic Isolate Metal nole-in-top can Not Eligible* 33-022261 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022262 Historic Isolate Metal hole-in-top can Not Eligible* 33-022265 Historic Isolate Metal hole-in-top can Not Eligible* 33-022266 Historic Isolate Metal hole-i	33-018404	CA-RIV-9483	<u>Historic</u>	<u>Site</u>	DTC-related refuse scatter	Not evaluated*
33-018612 Historic Isolate Hazel Atlas broken jar "16" Not evaluated* 33-018613 Historic Isolate Isolate brown glass bottle Not evaluated* 33-019415 CA-RIV-9854H Historic Structure Blythe-Eagle Mountain Transmission Not evaluated* 33-0122247 CA-RIV-9858H Historic Site Linear Berms Not Eligible* 33-022255 Historic Isolate Metal hole-in-top can Not Eligible* 33-022256 Historic Isolate Metal hole-in-top can Not Eligible* 33-022258 Historic Isolate Metal hole-in-top can Not Eligible* 33-022261 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022263 Historic Isolate Metal hole-in-top can Not Eligible* 33-022264 Historic Isolate Metal hole-in-top can Not Eligible* 33-022265 Historic Isolate Metal hole-in-top can Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can </td <td>33-018523</td> <td></td> <td><u>Prehistoric</u></td> <td><u>Isolate</u></td> <td><u>Quartz flake</u></td> <td>Not evaluated*</td>	33-018523		<u>Prehistoric</u>	<u>Isolate</u>	<u>Quartz flake</u>	Not evaluated*
33-018613 Historic Isolate Isolate Isolated brown glass bottle Not evaluated* 33-019415 CA-RIV-9854H Historic Structure Blythe-Eagle Mountain Transmission Line Not eligible* 33-019419 CA-RIV-9858H Historic Structure Mecca-Blythe-Ehrenberg Highway Not evaluated* 33-022247 CA-RIV-11584H Historic Isolate Metal hole-in-top can Not Eligible* 33-022256 Historic Isolate Metal hole-in-top can Not Eligible* 33-022258 Historic Isolate Metal hole-in-top can Not Eligible* 33-022261 Historic Isolate Metal hole-in-top can Not Eligible* 33-022262 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022265 Historic Isolate Metal hole-in-top can Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022266 <	33-018530		<u>Historic</u>	<u>Isolate</u>	<u>Tobacco can</u>	Not evaluated*
33-019415 CA-RIV-9858H Historic Structure Blythe-Eagle Mountain Transmission Line Not eligible* 33-019415 CA-RIV-9858H Historic Structure Mecca-Blythe-Ehrenberg Highway Not evaluated* 33-022277 CA-RIV-11584H Historic Istoric Isolate Metal hole-in-top can Not Eligible* 33-022256 Historic Isolate Metal hole-in-top can Not Eligible* 33-022259 Historic Isolate Metal hole-in-top can Not Eligible* 33-022261 Historic Isolate Metal can with lap seams Not Eligible* 33-022262 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022263 Historic Isolate Metal hole-in-top can Not Eligible* 33-022264 Historic Isolate Metal hole-in-top can Not Eligible* 33-022265 Historic Isolate Metal hole-in-top can Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible*	<u>33-018612</u>		<u>Historic</u>	<u>Isolate</u>	<u>Hazel Atlas broken jar "16"</u>	Not evaluated*
Line Line 33-019419 CA-RIV-9858H Historic Structure Mecca-Blythe-Ehrenberg Highway Not Evaluated* 33-022247 CA-RIV-11584H Historic Site Linear Berms Not Eligible* 33-022256 Historic Isolate Metal hole-in-top can Not Eligible* 33-022258 Historic Isolate Metal can with lap seams Not Eligible* 33-022259 Historic Isolate Metal can with lap seams Not Eligible* 33-022261 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022263 Historic Isolate Two green glass Coca-Cola bottle Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic <td>33-018613</td> <td></td> <td><u>Historic</u></td> <td><u>Isolate</u></td> <td>Isolated brown glass bottle</td> <td>Not evaluated*</td>	33-018613		<u>Historic</u>	<u>Isolate</u>	Isolated brown glass bottle	Not evaluated*
33-022247 CA-RIV-11584H Historic Site Linear Berms Not Eligible* 33-022255 Historic Isolate Metal hole-in-top can Not Eligible* 33-022256 Historic Isolate Metal hole-in-top can Not Eligible* 33-022258 Historic Isolate Metal cole-in-top can Not Eligible* 33-022259 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022261 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022263 Historic Isolate Two green glass Coca-Cola bottle Not Eligible* 33-022265 Historic Isolate Metal hole-in-top can Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Ketal hole-in-top can Not Eligible* 33-022270 Historic Isolate Kife cut metal ho	33-019415	CA-RIV-9854H	Historic	Structure		Not eligible <u>*</u>
33-022255 Historic Isolate Metal hole-in-top can Not Eligible* 33-022256 Historic Isolate Metal hole-in-top can Not Eligible* 33-022258 Historic Isolate Metal hole-in-top can Not Eligible* 33-022259 Historic Isolate Metal hole-in-top can Not Eligible* 33-022261 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022262 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022265 Historic Isolate Two green glass Coca-Cola bottle Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Ketal hole-in-top can Not Eligible* 33-022280 Historic Isolate Two metal hole-in-top can Not Eligible 33-023700 CA-RIV-12889 Historic Site DTC-re	<u>33-019419</u>	<u>CA-RIV-9858H</u>	<u>Historic</u>	<u>Structure</u>	Mecca-Blythe-Ehrenberg Highway	Not evaluated*
33-022256 Historic Isolate Metal hole-in-top can Not Eligible* 33-022258 Historic Isolate Metal can with lap seams Not Eligible* 33-022259 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022261 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022262 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022263 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-022273 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-022370 CA-RIV-11595 Historic Sit	33-022247	CA-RIV-11584H	Historic	Site	Linear Berms	Not Eligible <u>*</u>
33-022258 Historic Isolate Metal can with lap seams Not Eligible* 33-022259 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022261 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022262 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022263 Historic Isolate Two green glass Coca-Cola bottle Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022280 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-023675 CA-RIV-11595 Historic Site DTC-related bivouac or temporary camp. possibly 18th Ordnance Battalion Camp Individually eligible; contributor to the DTCC1*	33-022255		Historic	Isolate	Metal hole-in-top can	Not Eligible <u>*</u>
33-022259 Historic Isolate Metal hole-in-top can Not Eligible* 33-022261 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022262 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022263 Historic Isolate Two green glass Coca-Cola bottle Not Eligible* 33-022265 Historic Isolate Metal hole-in-top can Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022273 Historic Isolate Two metal hole-in-top can Not Eligible* 33-022273 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-02270 CA-RIV-11595 Historic Site DTC/AMA-C Habitation Site (496th Individually eligible; contributor to the DTCCL* 33-0	33-022256		Historic	Isolate	Metal hole-in-top can	Not Eligible <u>*</u>
33-022261 Historic Isolate Green glass Coca-Cola bottle fragment Not Eligible* 33-022262 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022263 Historic Isolate Two green glass Coca-Cola bottles Not Eligible* 33-022265 Historic Isolate Metal hole-in-top can Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022273 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-022273 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-022370 CA-RIV-11595 Historic Site DTC/AMA-C Habitation Site (496th Medium Ordnance Company Camp) Individually eligible; contributor to the DTCCL* 33-023700 CA-RIV-12889 Historic Site DTC-related bivouac or temporary camp, possibly 18th Ordnance Battalion Camp Individually not eligible, contributor 19-387-EM-020H Historic Distri	33-022258		Historic	Isolate	Metal can with lap seams	Not Eligible <u>*</u>
fragment 33-022262 Historic Isolate Green glass Coca-Cola bottle Not Eligible* 33-022263 Historic Isolate Two green glass Coca-Cola bottles Not Eligible* 33-022265 Historic Isolate Metal hole-in-top can Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022273 Historic Isolate Two metal hole-in-top can Not Eligible* 33-022280 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-023675 CA-RIV-11595 Historic Site DTC-related bivouac or temporary camp) Individually eligible; contributor to the DTCCL* 33-023700 CA-RIV-12889 Historic District Prehistoric Trails Network Cultural Landscape (PTNCL) Eligible 19-387-EM-020H Historic Structure Road remnant Not evaluated* 19-387-EM-023H Historic Structure	33-022259		Historic	Isolate	Metal hole-in-top can	Not Eligible <u>*</u>
33-022263 Historic Isolate Two green glass Coca-Cola bottles Not Eligible* 33-022265 Historic Isolate Metal hole-in-top can Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022273 Historic Isolate Metal hole-in-top can Not Eligible* 33-022280 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-0223700 CA-RIV-11595 Historic Site DTC/AMA-C Habitation Site (496th Medium Ordnance Company Camp) Individually eligible; contributor to the DTCCL* 33-023700 CA-RIV-12889 Historic Site DTC-related bivouac or temporary camp, possibly 18th Ordnance Battalion Camp Individually not eligible, contributor to DTCCL* 19-387-EM-020H Historic District Prehistoric Trails Network Cultural Landscape (DTCCL) Eligible 19-387-EM-023H Historic Site Fire ring and tank and armored vehicle tracks Individually not eligible, contributor	33-022261		Historic	Isolate	-	Not Eligible <u>*</u>
33-022265 Historic Isolate Metal hole-in-top can Not Eligible* 33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022273 Historic Isolate Metal hole-in-top can Not Eligible* 33-022280 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-0223675 CA-RIV-11595 Historic Site DTC/AMA-C Habitation Site (496th Medium Ordnance Company Camp) Individually eligible; contributor to the DTCCL* 33-023700 CA-RIV-12889 Historic Site DTC-related bivouac or temporary camp, possibly 18th Ordnance Battalion Camp Individually not eligible, contributor to DTCCL* 33-023700 CA-RIV-12889 Historic District Prehistoric Trails Network Cultural Landscape (PTNCL) Eligible 19-387-EM-020H Historic Site Fire ring and tank and armored vehicle tracks Individually not eligible, contributor to DTCCL* 19-387-EM-023H Historic Structure Road remnant	33-022262		Historic	Isolate	Green glass Coca-Cola bottle	Not Eligible <u>*</u>
33-022266 Historic Isolate Metal hole-in-top can Not Eligible* 33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022273 Historic Isolate Metal hole-in-top cans Not Eligible* 33-022280 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-022675 CA-RIV-11595 Historic Site DTC/AMA-C Habitation Site (496th Medium Ordnance Company Camp) Individually eligible; contributor to the DTCCL* 33-023700 CA-RIV-12889 Historic Site DTC-related bivouac or temporary camp, possibly 18th Ordnance Battalion Camp Individually not eligible, contributor to DTCCL* 33-023700 CA-RIV-12889 Historic District Prehistoric Trails Network Cultural Landscape (PTNCL) Eligible 19-387-EM-020H Historic Site Fire ring and tank and armored vehicle tracks Individually not eligible, contributor to DTCCL* 19-387-EM-023H Historic Structure Road remnant Not evaluated* 19-387-EM-023H Historic Structure Road remnant	33-022263		Historic	Isolate	Two green glass Coca-Cola bottles	Not Eligible <u>*</u>
33-022267 Historic Isolate Metal hole-in-top can Not Eligible* 33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022273 Historic Isolate Two metal hole-in-top cans Not Eligible* 33-022270 Historic Isolate Two metal hole-in-top cans Not Eligible* 33-022280 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-023675 CA-RIV-11595 Historic Site DTC/AMA-C Habitation Site (496th Medium Ordnance Company Camp) Individually eligible; contributor to the DTCCL* 33-023700 CA-RIV-12889 Historic Site DTC-related bivouac or temporary camp, possibly 18th Ordnance Battalion Camp Individually not eligible, contributor 33-023700 CA-RIV-12889 Historic District Prehistoric Trails Network Cultural Landscape (PTNCL) Individually not 19-387-EM-020H Historic Site Fire ring and tank and armored vehicle tracks Individually not 19-387-EM-023H Historic Structure Road remnant Not evaluated* 19-387-EM-025 Prehistoric Site DTC foxhole Individually not	33-022265		Historic	Isolate	Metal hole-in-top can	Not Eligible <u>*</u>
33-022270 Historic Isolate Metal hole-in-top can Not Eligible* 33-022273 Historic Isolate Two metal hole-in-top cans Not Eligible* 33-022280 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-02280 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-023675 CA-RIV-11595 Historic Site DTC/AMA-C Habitation Site (496th Medium Ordnance Company Camp) Individually eligible; contributor to the DTCCL* 33-023700 CA-RIV-12889 Historic Site DTC-related bivouac or temporary camp, possibly 18th Ordnance Battalion Camp Individually not eligible, contributor to DTCCL* 33-023700 CA-RIV-12889 Historic District Prehistoric Trails Network Cultural Landscape (PTNCL) Eligible 19-387-EM-020H Historic Site Fire ring and tank and armored vehicle tracks Individually not eligible, contributor to DTCCL* 19-387-EM-023H Historic Structure Road remnant Not evaluated* 19-387-EM-024H Historic Site DTC foxhole Individually not eligible, contributor to DTCCL*	33-022266		Historic	Isolate	Metal hole-in-top can	Not Eligible <u>*</u>
33-022273 Historic Isolate Two metal hole-in-top cans Not Eligible* 33-022280 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-023675 CA-RIV-11595 Historic Site DTC/AMA-C Habitation Site (496th Medium Ordnance Company Camp) Individually eligible; contributor to the DTCCL* 33-023700 CA-RIV-12889 Historic Site DTC-related bivouac or temporary camp, possibly 18th Ordnance Battalion Camp Individually not eligible, contributor to DTCCL* Prehistoric District Prehistoric Trails Network Cultural Landscape (PTNCL) Eligible 19-387-EM-020H Historic Site Fire ring and tank and armored vehicle tracks Individually not eligible, contributor to DTCCL* 19-387-EM-023H Historic Structure Road remnant Not evaluated* 19-387-EM-025 Prehistoric Site DTC foxhole Individually not eligible, contributor to DTCCL*	33-022267		Historic	Isolate	Metal hole-in-top can	Not Eligible <u>*</u>
33-022280 Historic Isolate Knife cut metal hole-in-top can Not Eligible* 33-023675 CA-RIV-11595 Historic Site DTC/AMA-C Habitation Site (496th Medium Ordnance Company Camp) Individually eligible; contributor to the DTCCL* 33-023700 CA-RIV-12889 Historic Site DTC-related bivouac or temporary camp, possibly 18th Ordnance Battalion Camp Individually not eligible, contributor to DTCCL* 33-023700 CA-RIV-12889 Historic District Prehistoric Trails Network Cultural Landscape (PTNCL) Eligible 19-387-EM-020H Historic Site Fire ring and tank and armored vehicle tracks Individually not eligible, contributor to DTCCL* 19-387-EM-023H Historic Structure Road remnant Not evaluated* 19-387-EM-024H Historic Structure Road remnant Not evaluated* 19-387-EM-025 Prehistoric Site Lithic scatter Not evaluated* 19-387-EM-025 Prehistoric Site DTC foxhole Individually not eligible, contributor to DTCCL*	33-022270		Historic	Isolate	Metal hole-in-top can	Not Eligible <u>*</u>
33-023675 CA-RIV-11595 Historic Site DTC/AMA-C Habitation Site (496th Medium Ordnance Company Camp) Individually eligible; contributor to the DTCCL* 33-023700 CA-RIV-12889 Historic Site DTC-related bivouac or temporary camp, possibly 18th Ordnance Battalion Camp Individually eligible; contributor to the DTCCL* 33-023700 CA-RIV-12889 Historic Site DTC-related bivouac or temporary camp, possibly 18th Ordnance Battalion Camp Individually not eligible, contributor to DTCCL* Prehistoric District Prehistoric Trails Network Cultural Landscape (PTNCL) Eligible 19-387-EM-020H Historic Site Fire ring and tank and armored vehicle tracks Individually not eligible, contributor to DTCCL* 19-387-EM-023H Historic Structure Road remnant Not evaluated* 19-387-EM-023H Historic Site Linthic scatter Not evaluated* 19-387-EM-025 Prehistoric Site DTC foxhole Individually not eligible, contributor to DTCCL*	33-022273		Historic	Isolate	Two metal hole-in-top cans	Not Eligible <u>*</u>
Medium Ordnance Company Camp) contributor to the DTCCL* 33-023700 CA-RIV-12889 Historic Site DTC-related bivouac or temporary camp, possibly 18th Ordnance Battalion Camp Individually not eligible, contributor to DTCCL* Prehistoric District Prehistoric Trails Network Cultural Landscape (PTNCL) Eligible Historic District Desert Training Center Cultural Landscape (DTCCL) Eligible 19-387-EM-020H Historic Site Fire ring and tank and armored vehicle tracks Individually not eligible, contributor to DTCCL* 19-387-EM-023H Historic Structure Road remnant Not evaluated* 19-387-EM-023H Historic Site Lithic scatter Not evaluated* 19-387-EM-025 Prehistoric Site Lithic scatter Not evaluated* 19-387-KH-014H Historic Site DTC foxhole Individually not eligible, contributor to DTCCL*	33-022280		Historic	Isolate	Knife cut metal hole-in-top can	Not Eligible <u>*</u>
camp, possibly 18th Ordnance Battalion Campeligible, contributor to DTCCL*PrehistoricDistrictPrehistoric Trails Network Cultural Landscape (PTNCL)EligibleHistoricDistrictDesert Training Center Cultural Landscape (DTCCL)Eligible19-387-EM-020HHistoricSiteFire ring and tank and armored vehicle tracksIndividually not eligible, contributor to DTCCL*19-387-EM-023HHistoricStructureRoad remnantNot evaluated*19-387-EM-023HHistoricStructureRoad remnantNot evaluated*19-387-EM-025PrehistoricSiteLithic scatterNot evaluated*19-387-KH-014HHistoricSiteDTC foxholeIndividually not eligible, contributor to DTCCL*	33-023675	CA-RIV-11595	Historic	Site		contributor to the
Landscape (PTNCL)HistoricDistrictDesert Training Center Cultural Landscape (DTCCL)Eligible19-387-EM-020HHistoricSiteFire ring and tank and armored vehicle tracksIndividually not eligible, contributor to DTCCL*19-387-EM-023HHistoricStructureRoad remnantNot evaluated*19-387-EM-024HHistoricStructureRoad remnantNot evaluated*19-387-EM-025PrehistoricSiteLithic scatterNot evaluated*19-387-EM-025PrehistoricSiteLithic scatterNot evaluated*19-387-KH-014HHistoricSiteDTC foxholeIndividually not eligible, contributor to DTCCL*	<u>33-023700</u>	<u>CA-RIV-12889</u>	<u>Historic</u>	<u>Site</u>	camp, possibly 18th Ordnance	eligible, contributor
Landscape (DTCCL) 19-387-EM-020H Historic Site Fire ring and tank and armored vehicle tracks Individually not eligible, contributor to DTCCL* 19-387-EM-023H Historic Structure Road remnant Not evaluated* 19-387-EM-024H Historic Structure Road remnant Not evaluated* 19-387-EM-024H Historic Structure Road remnant Not evaluated* 19-387-EM-025 Prehistoric Site Lithic scatter Not evaluated* 19-387-KH-014H Historic Site DTC foxhole Individually not eligible, contributor to DTCCL*			Prehistoric	District		Eligible
vehicle trackseligible, contributor to DTCCL*19-387-EM-023HHistoricStructureRoad remnantNot evaluated*19-387-EM-024HHistoricStructureRoad remnantNot evaluated*19-387-EM-025PrehistoricSiteLithic scatterNot evaluated*19-387-KH-014HHistoricSiteDTC foxholeIndividually not eligible, contributor to DTCCL*			Historic	District		Eligible
19-387-EM-024HHistoricStructureRoad remnantNot evaluated*19-387-EM-025PrehistoricSiteLithic scatterNot evaluated*19-387-KH-014HHistoricSiteDTC foxholeIndividually not eligible, contributor to DTCCL*		<u>19-387-EM-020H</u>	<u>Historic</u>	<u>Site</u>		eligible, contributor
19-387-EM-025 Prehistoric Site Lithic scatter Not evaluated* 19-387-KH-014H Historic Site DTC foxhole Individually not eligible, contributor to DTCCL*		<u>19-387-EM-023H</u>	<u>Historic</u>	Structure	Road remnant	Not evaluated*
19-387-KH-014H Historic Site DTC foxhole Individually not eligible, contributor to DTCCL*		<u>19-387-EM-024H</u>	Historic	Structure	Road remnant	Not evaluated*
eligible, contributor to DTCCL*		19-387-EM-025	Prehistoric	Site	Lithic scatter	Not evaluated*
<u>19-387-KH-016</u> Prehistoric Site Lithic scatter No longer present*†		<u>19-387-KH-014H</u>	Historic	<u>Site</u>	DTC foxhole	eligible, contributor
		<u>19-387-KH-016</u>	<u>Prehistoric</u>	<u>Site</u>	Lithic scatter	No longer present*+

Primary No.	Trinomial/ Temp. No.	Age	Туре	Description	CRHR Eligibility
	<u>19-387-KJ-001H</u>	Historic	Site	Artifact scatter, rock feature, and	Not evaluated*
	<u>15 567 RJ-00111</u>	1130010	JIC	tank tracks	Not evaluated
	<u>19-387-KJ-002H</u>	Historic	<u>Site</u>	DTC-related ammunition debris	Not evaluated*
				scatter	
	<u>19-387-KJ-003H</u>	<u>Historic</u>	<u>Site</u>	DTC-related ammunition debris and	Not evaluated*
				<u>depression</u>	
	<u>19-387-KJ-004H</u>	<u>Historic</u>	<u>Site</u>	Military-related artifact scatter	Not evaluated*
	<u>19-387-KJ-005H</u>	<u>Historic</u>	<u>Site</u>	Military-related artifact scatter	Not evaluated*
	<u>19-387-KJ-006H</u>	<u>Historic</u>	<u>Site</u>	WWII-era munitions debris scatter	Not evaluated*
	<u>19-387-KJ-008H</u>	<u>Historic</u>	<u>Site</u>	DTC-related munition debris	Not evaluated*
	<u>19-387-KJ-010</u>	<u>Prehistoric</u>	<u>Site</u>	Lithic scatter	Not evaluated*
	<u>19-387-KJ-BE-009H</u>	<u>Historic</u>	<u>Object</u>	County survey marker (iron pipe with brass cap)	Not evaluated*
	<u>19-387-WH-008H</u>	<u>Historic</u>	<u>Site</u>	DTC-related artifact concentration	Not evaluated*
	CB-SITE-001	<u>Historic</u>	<u>Site</u>	Refuse scatter	Not evaluated*
	CB-SITE-002	<u>Historic</u>	<u>Site</u>	Refuse scatter	Not evaluated*
	<u>HL-SITE-001</u>	<u>Historic</u>	<u>Site</u>	Refuse scatter	Not evaluated*
	HL-SITE-002	<u>Historic</u>	<u>Site</u>	Refuse scatter	Not evaluated*
	EA-2023-S-01	<u>Historic</u>	<u>Site</u>	Refuse scatter	Not evaluated*
	HL-BE-004H	Historic	Structure	Trailer Park	Not Eligible <u>*</u>
	<u>HL-BE-005H</u>	<u>Historic</u>	<u>Structure</u>	Wastewater treatment facility	Not evaluated*
	CB-ISO-001	Prehistoric	Isolate	One tertiary chert flake	Not Eligible <u>*</u>
	HL-ISO-001	Prehistoric	Isolate	One basalt flake	Not Eligible <u>*</u>
	MH-ISO-003	Prehistoric	Isolate	One quartz flake	Not Eligible <u>*</u>
	<u>MH-ISO-004</u>	<u>Prehistoric</u>	<u>Isolate</u>	<u>One basalt flake</u>	Not evaluated*
	<u>MH-ISO-006</u>	<u>Historic</u>	<u>Isolate</u>	Metal water container	Not evaluated*
	<u>MH-ISO-06</u>	<u>Prehistoric</u>	<u>Isolate</u>	Single reduction locus with five flakes	Not evaluated*
	MS-ISO-001	Prehistoric	<u>Isolate</u>	Ceramic plain ware sherd	Not evaluated*
	MS-ISO-002	Prehistoric	Isolate	One piece of brown jasper shatter	Not Eligible <u>*</u>
	MS-ISO-03	<u>Historic</u>	<u>Isolate</u>	Amber beer bottle	Not evaluated*
	EA-2023-I-01	Prehistoric	<u>Isolate</u>	One CCS tested cobble	Not evaluated*
	EA-2023-I-02	Prehistoric	<u>Isolate</u>	One quartzite flake	Not evaluated*
	EA-2023-I-03	Prehistoric	<u>Isolate</u>	One CCS core	Not evaluated*
	EA-2023-I-04	<u>Historic</u>	Isolate	Two amber beer bottles	Not evaluated*
	EA-2023-I-05	<u>Historic</u>	<u>Isolate</u>	Amber beer bottle	Not evaluated*
	EA-2023-I-06	<u>Historic</u>	Isolate	Amber beer bottle	Not evaluated*

*Determined not eligible for the NRHP, with SHPO concurrence

[†]Previously identified CRHR-eligible resource collected by BLM as part of the Oberon Renewable Energy Project

Archaeological Sites

P-33-006825 is a historic period site that was originally recorded in the early 1980s by the Riverside County Historical Committee (1982). The resource was reported to consist of a well, boiler, and concrete-lined reservoir or watering trough that represent the remains of a desert watering locale known as "Boulder Well". At the time P-33-006825 was documented, all three features contained or were covered in sand and wood debris. The features that comprise P-33-006825 appear to reflect activities related to mining and ranching activities that took place in the area in the late nineteenth and early twentieth centuries.

The site was revisited by Chronicle Heritage on March 30, 2023. Although the boiler and possible well head were relocated, no evidence of the cement-lined reservoir was found. A kidney-shaped depression was also identified that may represent the remains of the previously documented reservoir that has either been completely buried or was dismantled since 1982. Additional features documented at P-33-006825 include two pairs of concrete foundations and a concrete standpipe.

As one of the few reliable wells in the area, the site played a key role in the development of the historic mining, ranching, and transportation-related activities in the Chuckwalla Valley. The wells association with broad patterns of local or regional history meets the requirements for eligibility in the CRHR under Criterion 1. Site features cannot be associated with the lives of local, state, or nationally important persons and it does not embody distinctive characteristics of a type, period, method of construction, or represent the work of a master. Therefore, this site is not eligible for listing in the CRHR under Criteria 2 and 3. Additional study of the site is unlikely to yield important additional information regarding historic mining, ranching, or transportation related activities in the Chuckwalla Valley. Therefore, this site is not eligible for listing in the CRHR under Criteria 1.

An evaluation of integrity indicates that Site P-33-006825 can no longer convey its significance as a historical resource. Most of the structures that were once present at the site have been dismantled and removed. The site is in fair condition with impacts including wind-blown sand that has partially buried many of the features and the deposition of modern refuse. Although the site meets Criterion 1 for listing on the CRHR, it lacks integrity and is therefore not eligible for the CRHR.

P-33-006836 consists of the historic-era remains of the Desert Center Army Airfield. The site covers an approximately 190-acre area, most of which lies east of SR-177/Rice Road and north of the Blythe-Eagle Mountain Transmission Line (P-33-019415). The airfield has been documented as an archaeological resource but contains both archaeological and built-environment components (Hanes et al. 2019a, 2019b). Visible evidence of activities associated with the Desert Training Center include foundation remnants, discarded equipment, and modern refuse. The runway is barely discernible from the ground, and most of the original buildings have been removed (Dyste et al. 2018).

During a Phase I survey in April 2023, Chronicle Heritage revisited portions of P-33-006836. A low density of historic and modern refuse and several informal dirt roads were identified within the site boundary east of SR-177/Rice Road. However, no cultural remains associated with the airfield were documented in the small portion of P-33-006836 that extends into the Project's direct impact area. The Desert Center Army Airfield was previously determined by the BLM as not eligible for listing in the NRHP with concurrence from the State Historic Preservation Officer (2019). Although the County has also determined that the resource was not individually eligible for listing in the CRHR, the airfield was identified as a contributor to the DTCCL historic district (Riverside County Planning Department 2019).

P-33-015088 consists of a historic-era refuse scatter that was originally documented in 2006 by Æ (McLean and Maeyama 2006). Site P-33-015088 is 39 by 20 ft in area and consists of more than 130 artifacts, including metal cans, ceramic fragments, and bottle glass fragments. Diagnostic condensed milk cans found at the site suggests the remains may date to the 1920s and 1930s. No evidence was found to indicate that significant subsurface remains were present. The site was later revisited by PaleoWest in 2021 during the Class III survey for the Oberon Solar Project (Knabb et al. 2021). PaleoWest found the site largely unchanged since 2006 and concluded that the scatter likely represents secondary deposits of household refuse that were opportunistically dumped in the area by local residents traveling along the road.

In March 2023, the site was again revisited by Chronicle Heritage during Class III surveys for the Project. No notable changes in the condition of the site were observed during the revisit. Located on federally managed BLM land, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

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P-33-015089 consists of a previously recorded multicomponent site that was first documented in 2006 by Æ (McLean and Maeyama 2006). The site was later revisited in 2010 and 2012 by ECORP Consulting (Chandler et al. 2010; ECORP Consultants 2012) and in 2020 by PaleoWest (Knabb et al. 2021). Site P-33-015089 was recorded as being 875 by 155 ft in area and containing five prehistoric ceramic sherds, three sets of historic period tank tracks, and three concentrations of historic period refuse. The prehistoric sherds are from a single brownware vessel and appear to represent a pot drop. The artifact concentrations are composed of a variety of domestic refuse that includes metal cans, glass fragments, ceramic dishware fragments, and miscellaneous items. A maker's mark identified on a glass bottle base suggests the remains may date to the 1920s and 1930s. Finally, the tank tracks are associated with training activities that took place in the Chuckwalla Valley during WWII. No evidence was found to indicate that significant subsurface remains are present at the site. Given the proximity of a scatter to Resource P-33-019419 to the three artifact concentrations, it is likely that these remains represent secondary deposits of household refuse that were opportunistically dumped in the area over a period of time by local residents traveling along the road.

In April 2023, the site was again revisited by Chronicle Heritage during Class III surveys for the Project. The site has been heavily disturbed by the grading of an access road for the adjacent Oberon Solar Project. An intact can concentration is still present in the southern extent of the site. Additionally, a second intact can concentration was found along the northern edge of the access road that bisects the site.

Previously identified as a contributor to both the PTNCL and DTCCL for the CRHR (RWQCB 2021), the site no longer contains any association with the PTNCL, as its prehistoric components have disappeared. The site, however, does maintain its association with the DTCCL. Located on federally managed BLM land not subject to County jurisdiction, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

P-33-015090 consists of a historical refuse scatter that was first documented in 2006 by Æ (McLean and Maeyama 2006) with a later revisit in 2020 by PaleoWest (Knabb et al. 2021). The site is a historic period refuse scatter that is approximately 25 by 25 ft in area and consists of more than 50 artifacts, including metal cans, window glass, and an aluminum toothpaste tube. The artifacts date from the 1910s to the 1930s. A review of historical maps and BLM GLO (2021) records found no evidence that the land in the vicinity of the refuse scatter had been homesteaded prior to WWII. The proximity of the scatter to the historic Mecca-Blythe Highway (Resource P-33-019419) suggests that that the refuse scatter represents a secondary deposit of household trash that was opportunistically dumped in the area by local residents traveling along the road. The recorders noted that although some artifacts at Site P-33-015090 are partially buried, there is little potential for the site to contain subsurface cultural deposits.

In March 2023, the site was again revisited by Chronicle Heritage during Class III surveys for the Project. No notable changes in the condition in Site P-33-015090 were observed during the revisit.

Located on federally managed BLM land, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

P-33-018268 consists of a sparse prehistoric lithic scatter that was originally documented in 2010 by ECORP Consultants (Chandler et al. 2010) with a revisit conducted in 2021 by PaleoWest (Knabb et al. 2021). The site is a prehistoric lithic scatter that is 2 by 1 m in size. Identified artifacts consisted of 21 flaked stone artifacts and a quartzite hammerstone with pecking marks. The flaked stone debitage included eight white quartz primary flakes, five white quartz secondary flakes, one white quartz tertiary flake, and seven pieces of white quartz shatter. The site is on desert pavement with little to no potential for the subsurface remains.

In April 2023, the site was again revisited by Chronicle Heritage during Class III surveys for the Project. No notable changes in the condition in Site P-33-018268 were observed during the revisit.

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The site was previously identified as a contributor to the PTNCL for the CRHR as part of the Oberon Renewable Energy Project (RWQCB 2021). Located on federally managed BLM land not subject to County jurisdiction, the site was collected at the request of BLM and is no longer extant. As a result, the site cannot clearly convey its significance as a PTNCL-associated resource. The site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

P-33-018269 consists of a prehistoric artifact scatter that was first documented in 2010 by ECORP Consulting (Chandler et al. 2010) with an update undertaken in 2020 by PaleoWest (Knabb et al. 2021). The site was originally recorded in 2010 as scatter measuring 80 by 70 m in area with two concentrations of artifacts that include 15 quartz, quartzite, and chert flakes and shatter, 1 granite mano, and 3 plainware ceramic sherds. The revisit conducted by PaleoWest in 2020 found that Site P-33-018269 had been disturbed by alluvial sheetwash flooding, which has washed away, buried, or otherwise displaced many of the previously recorded surface artifacts. At the time of the revisit, only six flaked stone artifacts could be observed, including five quartzite flakes (two primary flakes, two secondary flakes, and one tertiary flake) and one piece of quartz shatter. Due to the change in conditions, PaleoWest reduced the site boundary to a 56 by 15 m area. Although it is possible that some artifacts have been buried, no evidence for the presence of substantial subsurface deposits were found at the site.

In April 2023, Site P-33-018269 was revisited by Chronicle Heritage during Class III surveys for the Project. The scatter has been heavily disturbed by construction activities related to the Oberon Solar Project. Only one artifact (A9) was relocated.

Previously identified as a contributor to the PTNCL (RWQCB 2021), the site no longer retains any clear association with the PTNCL, as its prehistoric components have disappeared, except one, isolated flake. Located on federally managed BLM land not subject to County jurisdiction, the site was collected at the request of BLM and is no longer extant. As a result, the site cannot clearly convey its significance as a PTNCL-associated resource. The site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

P-33-018270 is a previously recorded sparse prehistoric lithic scatter that was first documented in 2010 by ECORP Consultants (Chandler et al. 2010) with a revisit in 2020 by PaleoWest (Knabb et al. 2021). The site was initially described as a lithic scatter measuring 45 by 32 m in size. Identified artifacts included three quartz flakes and one quartzite flake, which include one edge modified flake, two primary flakes, and one tertiary flake. The site was noted as being in poor condition with a dirt road bisecting the site and the eastern portion of the scatter in an ephemeral wash. PaleoWest's revisit to Site P-33-018270 in 2020 found that the conditions of the resource were largely unchanged since 2010. During the revisit, two of four previously identified flaked stone artifacts were observed.

In April 2023, Site P-33-018269 was revisited by Chronicle Heritage during Class III surveys for the Project. None of the flaked stone artifacts that had been previously documented at Site P-33-018270 were observed. The site is in a seasonal drainage and alluvial activity may have either buried or displaced the artifacts.

Previously identified as a contributor to the PTNCL (RWQCB 2021), the site no longer retains any clear association with the PTNCL, as the site is no longer extant, its prehistoric components having disappeared. As a result, the site cannot clearly convey its significance as a PTNCL-associated resource. The site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

P-33-018391 consists of a historic-period refuse scatter that was first documented in 2010 by ECORP Consulting (Chandler et al. 2010) with a revisit in 2020 by PaleoWest (Knabb et al. 2021). The site was

initially described is a sparse scatter of spent military ordinance, metal lids, and other metal debris within a 472 by 121-ft area. Identified artifacts included over 25 artillery shell lids and lid fragments, along with shotgun shell casings associated with military activities during WWII. Minor disturbances were noted at the site from eolian and alluvial erosion, with some artifacts having been partially buried. PaleoWest's revisit to Site P-33-018391 in 2020 found that the current conditions were largely unchanged since 2010. No evidence was found to indicate that substantial subsurface deposits were present at the site.

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In March 2023, Site P-33-018391 was revisited by Chronicle Heritage during Class III surveys for the Project. The scatter was found to be in fair condition with some disturbances from aeolian and alluvial processes. Although the metal lids were observed, the spent ordnance was not identified during the revisit.

Located on federally managed BLM land, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

P-33-018392 consists of a historic period refuse scatter that was first documented in 2010 by ECORP Consulting (Chandler et al. 2010). Later revisits to Site P-33-018392 were conducted in 2011 by ECORP Consulting (Chandler et al. 2011) and in 2020 by PaleoWest (Knabb et al. 2021). The site was initially recorded as an 85 by 62-ft refuse scatter composed of DTC-related munition debris totaling over 200 artifacts, which was dominated by container lids. Artifacts were noted to include munition container lids for both M87 and 75 mm rounds, cut wire nails, screws, and a metal belt buckle. During the 2011 revisit, scattered piles of plastic tubing, likely from discarded irrigation drip lines from nearby agricultural fields, indicating a secondary and recent deposit, as well as evidence of off-road vehicle activity were documented within the site boundary.

PaleoWest's revisit to Site P-33-018392 in 2020 resulted in formal documentation of two of the associated tank tracks recorded in 2011, as well as the identification of possible additional historic refuse consisting of munitions debris. This historic refuse stretched beyond the previously recorded boundaries, resulting in Site P-33-018392 being expanded. The boundaries grew to cover an area of 160 by 180 ft, more than double the size of the initial recording. Whether the debris, largely container lids, could be considered new constituents to the site or the debris represented elements of the previously recorded artifact concentrations redeposited by a combination of natural alluvial and eolian processes, was not directly expressed. However, during the 2020 documentation, PaleoWest archaeologists noted that some artifacts appeared partially buried or embedded in alluvium. No evidence was found to indicate significant subsurface deposits are present at the site.

In March 2023, the site was revisited by Chronicle Heritage during Class III surveys for the Project. Upon revisit, Chronicle Heritage archaeologists found the integrity of this resource to be compromised to a degree that it does not retain the characteristics that would permit it to be considered eligible under Criterion A, as it was previously determined eligible for listing in the NRHP under. As a result, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP under any criterion.

P-33-018404 consists of a historic period refuse scatter that was first documented in 2010 by ECORP Consulting (Chandler et al. 2010) with a revisit in 2020 by PaleoWest (Knabb et al. 2021). The site was initially recorded as a scatter containing variety of cans and glass bottle fragments within a 132 by 49-ft area. One concentration of artifacts measuring 13 by 12 ft was identified that includes 4 meat cans, 1 glass bottle base, more than 20 clear glass fragments, more than 10 crushed sanitary cans, and 2 matchstickfiller cans. A marker's mark on one glass bottle suggests the deposits date to the 1930s. PaleoWest's revisit to Site P-33-018404 in 2020 found that the current conditions of the site were largely unchanged since 2010 (Knabb et al. 2021).

The refuse scatter is adjacent to a historic road (Resource P-33-019419) that was present as early as the 1950s. Although an ephemeral wash bisects the site, it appears to have minimally impacted the condition

of the cultural deposits. No evidence was found to indicate subsurface remains are present at Site P-33-018404. Given the proximity of the site to the historic road, PaleoWest (Knabb et al. 2021) concluded that the scatter represents a secondary deposit of household refuse that was opportunistically dumped in the area by local residents traveling along the road.

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In April 2023, the site was revisited by Chronicle Heritage during Class III surveys for the Project. No notable changes in the condition of the resource were observed during the revisit.

Located on federally managed BLM land, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

P-33-022247 consists of a series of seven earthen linear berms that were first documented in 2012 by FirstCarbon Solutions (Dice 2013) with a revisit completed in 2020 by PaleoWest (Knabb et al. 2021). The lengths of the berms range in size from 0.75 to 2 miles with an average width of 10 feet. No artifacts were found in association with the linear berms and no evidence was found to suggest subsurface deposits are present at the site. During the Phase I survey, a previously undocumented reservoir feature was identified at the southern end of a north-south oriented berm. Two abandoned metal water tanks lie along the southern edge of the reservoir. Additionally, a concentration of modern refuse, which includes various wood, metal, and plastic objects that appear to represent construction debris, is adjacent to the water tanks. Although some of the earthen berms associated with Site P-33-022247 may have been constructed by soldiers during military training in the Chuckwalla Valley Maneuver Area, others appear to date later in time and were associated with jojoba farming. It is unclear which portions of the site date to the 1940s and which parts were constructed in the 1960s.

Although P-33-022247 is associated with activities related to the military and agriculture in the Chuckwalla Valley during WWII and the post-WWII era, there is no clear associative values beyond its general association with the DTC/C-AMA and farming. Therefore, P-33-022247 is not significant under Criterion 1. General George Patton and General Alvan Gillem are associated with the DTC/C-AMA, however, the earthen berms that comprise this site does not convey the significance of any specific decision made by these individuals, or by individuals important to the development of agriculture and jojoba farming. This site is therefore not significant under Criterion 2. P-33-022247 lacks any distinct architectural, technological, or engineering qualities that relate to the period of significance and does not have the distinctive characteristics of a type, period, or method of construction, is not the work of a master craftsman, or have properties possessing high artistic value. It is thus not eligible under Criterion 3. Finally, earthen berms and other earthworks are common throughout the Chuckwalla Valley, and additional study of the site is unlikely to contribute important information on either the DTC/C-AMA or jojoba farming. Therefore, P-33-022247 is not eligible under Criterion 4. P-33-022247 does not meet the requirements under any criteria, and is therefore recommended not eligible both individually or as a contributor to the DTCCL for listing in the CRHR.

P-33-023675 contains the remains of a camp associated with the 496th Medium Ordinance Company and a possible bivouac area related to DTC activities. The resource encompasses a 19-acre area and was first documented in 2014 by SWCA Environmental Consultants (Millington et al. 2013). As part of the Phase I study for the Oberon Solar Project (Knabb et al. 2021), PaleoWest visited P-33-023675 in 2021 and mapped the entire resource using a combination of aerial drone photogrammetry and ground truthing. At least 20 burned areas, 9 refuse concentrations, and two large refuse dumps were identified across the site and contain various refuse items (e.g., cans, bottles, wood, etc.). These features represent different forms of refuse disposal, ranging from opportunistic dumping to more formal types of waste disposal. Numerous rock alignment features were identified that represent the formal alignment and built structure of the camp, including the remnants of walkways and potential tent pads.

Similarly, five roads were documented which were lined with an imported purple and green rock that had been ground into gravel. Eleven berms, four dugout depressions, and an earthen mound were mapped and likely represent small unit training areas or defensive positions for protection of the camp. Overall, the features mapped by PaleoWest appear to reflect various aspects of the functioning of the camp, including its planning and construction, daily operation, and decommissioning. As part of the 2021 update, a previously recorded historic period survey marker (P-33-020570), which was within the site boundary of P-33-023675, was included as part of the resource. The marker is a U.S. Coast and Geodetic Survey marker east of SR-177/Rice Road. The historic object exhibits a 1945 stamp.

During the Phase I survey of the Project area, 11 additional rock features and an artifact concentration were identified adjacent to the southeastern boundary of the site to the east of SR-177/Rice Road. Other artifacts identified within the vicinity of the rock features include two historic period glass bottles and four prehistoric pieces of debitage consisting of a tertiary chert flake, a tertiary rhyolite flake, a primary quartzite flake, and a tertiary basalt flake. As a result of these discoveries, the existing boundary of P-33-023675 was expanded to encompass the newly identified cultural remains. No cultural remains associated with P-33-023675 were identified by Chronicle Heritage in the Project's direct impact area.

The historic period remains at P-33-023675 were previously determined eligible for listing in the CRHR under Criterion 1 because of the camp's direct association with important events associated with the DTC/C-AMA between 1942 and 1944 (RWQCB 2021). Additionally, the resource was determined eligible for the CRHR under Criterion 4 for its potential to contribute to a better understanding of training activities conducted at the DTC/C-AMA. The resource was also identified as a contributor to the DTCCL historic district (RWQCB 2021). The newly identified historic period cultural remains in the expanded boundary of P-33-023675 contribute to the overall eligibility of the resource for listing in the CRHR.

The newly identified prehistoric component consisting of five flaked stone artifacts do not contain temporally diagnostic artifacts or any materials suitable for chronometric dating. This means the temporal and cultural components cannot be defined and the prehistoric artifacts cannot be associated with specific events or persons that have made a significant contribution to the broad patterns of history, and do not embody the distinctive characteristics of a type, period, or method of construction. Therefore, the prehistoric component of P-33-023675 is not recommended as eligible for listing under Criterion 1, 2, or 3. Given the small quantity of artifacts and lack of assemblage diversity, it is unlikely that additional study of the flaked stone artifacts will provide important information valuable to our understanding of the past. Therefore, the prehistoric component at P-33-023675 is not considered eligible under Criterion 4. The prehistoric component at P-33-023675 is therefore recommended not eligible for listing in the CRHR.

P-33-023700 consists of a historic period site comprising the remains of a camp associated with the 496th Medium Ordinance Company and a possible bivouac area related to DTC activities. The resource was first documented in 2014 by SWCA Environmental Consultants (Millington et al. 2013). As part of the Class III study for the Oberon Solar Project (Knabb et al. 2021), PaleoWest revisited P-33-023675 in 2021 and remapped the entire resource using a combination of aerial drone photogrammetry and ground truthing. Fourteen different feature types were identified at the site by PaleoWest, including burned areas; refuse concentrations; rock alignment features; berms; piles of concrete; depressions; dugout pits; milled wood concentrations; mounds; pits; refuse dumps; rock features; roads; and loose lumber pieces. At least 20 burned areas, 9 refuse concentrations, and two large refuse dumps were identified across the site and contain various refuse items (cans, bottles, wood, etc.). These features represent different forms of refuse disposal, ranging from opportunistic dumping to more formal types of waste disposal. Numerous rock alignment features were identified that represent the formal alignment and built structure of the camp, including the remnants of walkways and potential tent pads. Similarly, five roads were documented which were lined with an imported purple and green rock that had been ground into gravel; these roads provided vehicle access to, from, and within the site and beyond. Eleven berms, four dugout depressions, and an earthen mound were mapped and likely represent small unit training areas or defensive positions for protection of the camp. Two concrete piles, one milled wood concentration, 24 rock pile features, and 16 loose lumber pieces were documented that may represent temporary storage areas for materials during the construction of the site. A single large depression was in the center of the site that is of unknown function. Overall, the features mapped by PaleoWest appear to reflect various aspects of the functioning of the camp, including its planning and construction, daily operation, and decommissioning.

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As part of the 2021 update, a previously recorded historic period survey marker (Resource P-33-020570), which was within the site boundary of Site P-33-023675, was included as part of the resource. The marker is a US Coast and Geodetic Survey marker east of State Route 177/Rice Road. The historic object exhibits a 1945 stamp.

In April 2023, Site P-33-023675 was again revisited by PaleoWest for the current Project. Eleven additional features and artifacts were identified adjacent to the southeastern boundary of Site P-33-023675. As a result of these discoveries, the existing boundary of Site P-33-023675 was expanded to encompass the newly identified remains. Because the adjacent site of Site 19-387-WH-037H was found to lie less than 30 m from the newly expanded boundary, the two rock features that comprise this latter site were incorporated into Site P-33-023675.

Site 19-387-WH-037H was originally recorded by PaleoWest in 2021 (Knabb et al. 2021). The site was described as consisting of two small circular rock features (Features 1 and 2) that were either historic or modern in age. No artifacts were identified in association with the two rock features.

Located on federally managed BLM land, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

19-387-EM-020H consists of a historic period site recorded in 2021 by PaleoWest as a rock ring that was likely used as a fire pit or campfire (Knabb et al. 2021). The feature is approximately 3 by 3 ft in area and is composed of large cobbles and small boulders of granite and quartzite. No artifacts were found in association with the fire pit. The area surrounding the site contains extensive tank and armored vehicle tracks. The site appears to largely be surficial, with no evidence found to suggest there are substantial buried deposits.

Chronicle Heritage revisited the site in April 2023 during Class III surveys for the Easley Project. The site was found to be unchanged since 2021.

Previously determined individually not eligible for listing in the CRHR, the site was identified as a contributor to the DTCCL as part of the Oberon Renewable Energy Project (RWQCB 2021). The site was found to maintain its association with the DTCCL. Located on federally managed BLM land not subject to County jurisdiction, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

19-387-EM-025 consists of a small prehistoric lithic scatter originally recorded in 2021 by PaleoWest (Knabb et al. 2021). The site is 65 by 27 m and contains three quartz knapping stations and a few scattered flakes. The three knapping stations appear to be early-stage reduction loci that consist of primary, secondary, and tertiary flakes with some shatter; there are no cores or formed tools present. The site components appear to largely be surficial, with no evidence found to suggest there are substantial buried deposits.

Chronicle Heritage revisited the site in April 2023 during Class III surveys for the Easley Project. The site was found to be unchanged since 2021.

Located on federally managed BLM land, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

19-387-KH-014H a DTC-related foxhole originally recorded in 2021 by PaleoWest (Knabb et al. 2021). The resource consists of a single foxhole that is 6 by 7 ft in area with a depth of 1 ft. The berm surrounding the edge of the foxhole is 2 to 3 ft thick and approximately 6 in tall. No artifacts were found associated with the site. The feature appears to largely be surficial, with no evidence found to suggest there are substantial buried deposits. The presence a foxhole suggests that the site dates to the 1940s and is associated with activities of the DTC/C-AMA.

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Chronicle Heritage revisited the site in April 2023 during Class III surveys for the Project. The site was found to be unchanged since 2021.

<u>Previously determined individually not eligible for listing in the CRHR, the site was identified as a contributor to the DTCCL as part of the Oberon Renewable Energy Project (RWQCB 2021). The site was found to maintain its association with the DTCCL. Located on federally managed BLM land not subject to County jurisdiction, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.</u>

19-387-KH-016 consists of a prehistoric lithic scatter within the proposed gen-tie alignment of the Project's direct effects APE. The resource was originally recorded in 2021 by PaleoWest (Knabb et al. 2021). The site is 5 by 5 m and contains approximately 40 white quartzite artifacts including 10 primary flakes, 7 secondary flakes, and 23 miscellaneous debitage pieces. The assemblage appears to be largely surficial, with no evidence to suggest the presence of substantial buried deposits.

Chronicle Heritage revisited the site in April 2023 during Class III surveys for the Project. The site was found to be unchanged since 2021.

The site was previously identified as a contributor to the PTNCL for the CRHR as part of the Oberon Renewable Energy Project (RWQCB 2021). Located on federally managed BLM land not subject to County jurisdiction, the site was collected at the request of BLM and is no longer extant. As a result, the site cannot clearly convey its significance as a PTNCL-associated resource. The site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

19-387-KJ-001H consists of a historic period refuse scatter, rock feature, and tank tracks originally recorded in 2021 by PaleoWest (Knabb et al. 2021). The site is approximately 246 by 207 ft and consists of two concentrations of historic period refuse, an irregular-shaped rock feature, and tank tracks. The refuse scatter contains approximately 30 cans and 50 fragments of bottle glass. The cans at the site include various bimetal cans and aluminum cans. The rock feature consists of 40 cobbles clustered in an irregular shape; the feature is 10 ft by 5 ft with a width of 10 in. No temporally diagnostic artifacts are associated with the feature. Tank tracks run through the middle of the site in a northeast-southwest orientation. The scatter appears to largely be surficial and its location on weakly developed desert pavement suggests buried deposits are unlikely. The presence of bimetal cans suggests that the scatter dates to the post-WWII era.

<u>Chronicle Heritage revisited the site in April 2023 during Class III surveys for the Project. The site was</u> found to be unchanged since 2021.

Located on federally managed BLM land, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

19-387-KJ-002H consists of a historic period refuse scatter originally recorded in 2021 by PaleoWest (Knabb et al. 2021). The site is approximately 427 by 256 ft and consists of at least 200 artifacts, including wing nuts, washers, munition tags, rifle grenade stabilizer tails, munitions container lids, nuts, wire, Howitzer plugs, green bottle glass, and other items. Diagnostic artifacts at the site include 5 metal smoke-less powder tags, 2 rifle grenade stabilizer tails, 10 105 mm Howitzer container lids, 8 37 mm M4 container lids, and 2 60 mm mortar lids. The scatter appears to largely be surficial and its location on weakly

developed desert pavement suggests buried deposits are unlikely. The presence of munitions debris related to the Howitzer, M4, and 60 mm mortar, which are known to have been used at DTC training camps, suggests that the scatter is associated with WWII training activities.

7-9

Chronicle Heritage revisited the site in April 2023 during Class III surveys for the Project. The site was found to be unchanged since 2021.

Located on federally managed BLM land, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

19-387-KJ-003H consists of a historic period refuse scatter originally recorded in 2021 by PaleoWest (Knabb et al. 2021). The site is approximately 43 by 36 ft and consists of 50 artifacts, including metal container lids for large munition rounds, embossed sheet metal tags, shell casings, friction lid tins, and clear glass. The diagnostic artifacts include munitions propellant tags, container lids for 105 mm Howitzer rounds, and two .30-06 cartridge casings stamped with "F A 42." A round depression was identified at the site that may represent a detonation crater 3 ft In diameter and 1.5 ft deep. The scatter appears highly disturbed by the possible detonation crater and no evidence was found to suggest there are intact buried deposits. The presence of munitions debris related to the Howitzer and other ammunition, which are known to have been used at DTC training camps, suggests that the scatter is associated with WWII-training activities.

Chronicle Heritage revisited the site in April 2023 during Class III surveys for the Project. The site was found to be unchanged since 2021.

Located on federally managed BLM land, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

19-387-KJ-004H consists of a historic period refuse scatter originally recorded in 2021 by PaleoWest (Knabb et al. 2021). The site is approximately 150 by 100 ft and consists of 65 munition canister lids, metal brackets, and two pieces of milled lumber. The scatter appears to largely be surficial, with no evidence found to suggest there are substantial buried deposits. The presence of munitions debris suggests that the scatter is associated with DTC training activities.

Chronicle Heritage revisited the site in April 2023 during Class III surveys for the Project. The site was found to be unchanged since 2021.

Located on federally managed BLM land, the site was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP.

19-387-KJ-005H consists of a historic period refuse scatter originally recorded in 2021 by PaleoWest (Knabb et al. 2021). The site consists of two concentrations of 105-mm Howitzer containers and lids surrounded by a dispersed artifact scatter. The site is approximately 610 by 115 feet and contains a total of approximately 110 container lids and rings The lids are 5 1/8 in in diameter and are embossed with "105 MM How M2 / Container 105 MM, M39A1." The scatter appears to largely be surficial with no evidence found to suggest there are substantial buried deposits. The presence of munitions debris related to the Howitzer, which is known to have been used at the DTC training camps, suggests that the scatter is associated with WWII-training activities.

Chronicle Heritage revisited the site in April 2023 during Class III surveys for the Project. The site was found to be unchanged since 2021.

Located on federally managed BLM land, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

19-387-KJ-006H consists of a historic period refuse scatter originally recorded in 2021 by PaleoWest (Knabb et al. 2021). The site is approximately 390 by 100 ft and consists of four artifact concentrations

surrounding by a more dispersed artifact scatter. Surface remains consist of approximately 180 container lids and rings for 105 mm Howitzer rounds, two munition tags, two brass brackets, and a washer. One of the tags reads "AMMUNITION CANNON WITH / EXPLOSIVE PROJECTILE / 14 LBS." The scatter appears to largely be surficial with no evidence found to suggest there are substantial buried deposits. The presence of munitions debris related to the Howitzer, which is known to have been used at the DTC training camps, suggests that the scatter is associated with WWII-training activities.

7-9

Chronicle Heritage revisited the site in April 2023 during Class III surveys for the Project. The site was found to be unchanged since 2021.

Located on federally managed BLM land, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

19-387-KJ-008H consists of a historic-period refuse scatter originally recorded in 2021 by PaleoWest (Knabb et al. 2021). The site is approximately 56 by 46 ft and consists of 25 container lids and rings for 105 mm Howitzer rounds and a metal rod. The lids measure 5 1/8 in in diameter and are embossed with "105 MM How M2 / Container 105 MM, M39A1." The scatter appears to largely be surficial with no evidence found to suggest there are substantial buried deposits. The presence of munitions debris related to the Howitzer, which is known to have been used at the DTC training camps, suggests that the scatter is associated with WWII-training activities.

At the time the site was initially documented, several redeposited metal cans were noted in the vicinity of Site 19-387-KJ-008H. Due to alluvial actions in existing washes, these materials appeared to be in secondary contexts and had been significantly displaced and redeposited. PaleoWest did not record these materials as part of the site.

Chronicle Heritage revisited the site in April 2023 during Class III surveys for the Project. The site was found to be unchanged since 2021.

Located on federally managed BLM land, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

19-387-KJ-010 consists of a small prehistoric lithic scatter originally recorded in 2021 by PaleoWest (Knabb et al. 2021). The site is 7 by 3 m. It contains a total of 28 flaked stone artifacts that includes 14 primary flakes and 14 tertiary flakes, all of which appear to derive from the same black quartzite raw material.

Chronicle Heritage revisited the site in April 2023 during Class III surveys for the Project. The site was found to be unchanged since 2021.

Located on federally managed BLM land, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

19-387-WH-008H consists of a historic period refuse scatter within the proposed solar array portion of the Project's direct impact area. The resource was originally recorded in 2021 by PaleoWest (Knabb et al. 2021). The site is 249 by 187 ft and consists of approximately 50 C-ration cans, bottle glass, charcoal, a metal crankshaft engine pulley, and a shovel blade. Diagnostic artifacts include a glass bottle with an Owens-Illinois stamp and a glass jar base with an Anchor Hocking maker's mark. The scatter appears to largely be surficial with no evidence found to suggest there are substantial buried deposits. The presence of military ration cans suggests that the scatter dates to the 1940s and is associated with DTC activities.

Chronicle Heritage revisited the site in April 2023 during Class III surveys for the Project. The site was found to be unchanged since 2021.

Located on federally managed BLM land, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

CB-SITE-001 consists of a historic period refuse scatter within the proposed solar array portion of the Project's direct impact area. The site was documented in April 2023. It is 140 by 50 ft and consists of approximately 50 metal cans (hole-in-top and church key-opened), 15 pieces of milled wood, glass fragments, concrete pieces, and miscellaneous metal objects that represent the remnants of a stove. One Owens-Illinois bottle base was present, which exhibited a maker's mark with a manufacturing date ranging between 1954 and the present (Toulouse 1971).

7-9

The refuse scatter is adjacent to a two-track dirt road that runs in a northeast to southwest direction from a nearby abandoned jojoba field. The age of the road is not known, as it is not depicted on any historic or modern topographic maps or aerial images (NETROnline 2023). The proximity of the refuse scatter to the road suggests Site CB-SITE-001 is the result of an episode of opportunistic roadside dumping of household refuse by local residents or farmers in the latter half of the twentieth century. Although some artifacts have been partially buried by aeolian and alluvial processes, the site largely appears to be surficial. No evidence found to suggest there are substantial buried deposits.

Located on federally managed BLM land, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

CB-SITE-002 consists of a historic period refuse scatter within the proposed solar array portion of the Project's direct effects APE. The site was documented in April 2023. It is 10 by 8 ft and consists of approximately 20 pieces of milled lumber, 5 metal cans, and miscellaneous objects including rubber tubing, metal conduit and wire, and a several metal coils. No temporally diagnostic artifacts were identified in the scatter.

The site is approximately 50 ft north of a two-track dirt road that runs in a northeast to southwest direction from a nearby abandoned jojoba field. The age of the road is not known, as it is not depicted on any historic or modern topographic maps or aerial images (NETROnline 2023). The proximity of the refuse scatter to the road suggests Site CB-SITE-002 is the result of a single episode of opportunistic roadside dumping of refuse by local residents or farmers in the latter half of the twentieth century. Although some artifacts have been partially buried by aeolian and alluvial processes, the site largely appears to be surficial. No evidence found to suggest there are substantial buried deposits.

Located on federally managed BLM land, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

HL-SITE-001 consists of a historic period refuse scatter within the proposed solar array portion of the Project's direct effects APE. The site was documented in April 2023. It is approximately 135 by 50 ft and consists of approximately 100 artifacts, most of which are metal cans of various types (e.g., beverage, food, dry goods). Smaller quantities of beverage bottles (amber, clear, and green glass) are also present. Three bottles were identified that exhibit maker's marks. These include a green bottle base with a GLASS CONTAINER CORPS (ca. 1934–1968) mark, a brown bottle base with an OBEAR-NESTER GLASS CO. (ca. 1915–1978) mark, and a brown bottle base with an Anchor Hocking Glass Corps (ca. 1938–1980) (Toulouse 1971).

The refuse scatter is approximately 500 ft south of Boulder Well (Site P-33-006825) and adjacent to a linear berm (Site P-33-022247). The proximity of the refuse scatter to the historic period watering hole and agricultural features suggests Site HL-SITE-002 is the result of an episode of opportunistic roadside dumping of household refuse by local residents or farmers in the early to mid-twentieth century. Although some artifacts have been partially buried by aeolian processes, the site largely appears to be surficial. No evidence found to suggest there are substantial buried deposits.

Located on federally managed BLM land, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

HL-SITE-002 consists of a historic period can dump within the proposed solar array portion of the Project's direct effects APE. The site was documented in April 2023. It is approximately 5 by 5 ft in area and consists of 16 metal cans and 1 colorless glass bottle with a screw top lid. The cans are predominantly food-related and many exhibit knife cut openings. No visible maker's marks were observed on the glass bottle.

7-9

The refuse scatter is in the vicinity of a number of unnamed two-track dirt roads. None of these roads are depicted on any modern or historic topographic maps or aerial images (NETROnline 2023). The proximity of the refuse scatter to these roads suggests Site HL-SITE-002 is the result of a single episode of opportunistic roadside dumping of refuse by local residents or farmers in the sometime in the mid to late-twentieth century. Although some cans have been partially buried by aeolian processes, the site largely appears to be surficial. No evidence found to suggest there are substantial buried deposits.

Located on federally managed BLM land, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

EA-2023-S-01 consists of a historic period refuse scatter within the proposed solar array portion of the Project's direct effects APE. The site was documented in November 2023 as part of follow-up surveys. It is approximate 7 x 6 m in area and contains several crushed metal cans, glass fragments, and miscellaneous metal pieces. Glass fragments include amber, green, olive, and milk colored coloration. Two bottle fragments were identified that exhibit maker's marks. These include three fragments of a green bottle base with a GLASS CONTAINER CORPS (ca. 1934–1968) mark and a clear bottle base fragment with a Latchford Glass Co (ca. 1957–1989) mark (Toulouse 1971). Additionally, surveyors noted a group of rocks representing a possible hearth feature. Upon closer examination by PaleoWest personnel, none of the rocks were found to exhibit evidence of having been fire-affected, with no ash or charcoal observed in the vicinity.

The refuse scatter is approximately 70 m north of Site HL-SITE-001 and adjacent to a linear berm (Site P-33-022247). The proximity of the refuse scatter to the historic period agricultural features suggests Site EA-2023-S-01 is the result of episodic opportunistic roadside dumping of household refuse by local residents or farmers in the early to mid-twentieth century. Although some artifacts have been partially buried by aeolian processes, the site largely appears to be surficial. No evidence found to suggest there are substantial buried deposits.

Located on federally managed BLM land, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

Isolated Artifacts

Seventeen <u>Thirty-two</u> isolated artifacts are present in the Project's direct impact area (Table 3.6-2). Four <u>Ten</u> of the isolated finds date to the Prehistoric Period and consist of <u>single or small numbers of flaked</u> stone or ceramic sherdssingle pieces of flaked stone debitage. The remaining isolates consist of historic period metal cans or glass bottles. Isolated occurrences are generally considered not eligible for inclusion in the CRHR unless they possess unique or substantial qualities to warrant their listing. All isolated occurrences are recommended not eligible for inclusion in the CRHR under any criteria.

Historic Built-Environment Resources

P-33-018242 is a historic-era object within the proposed solar array portion of the Project's direct effects APE. It was originally recorded in 2010 by ECORP Consulting (Chandler et al. 2010) with a later revisit conducted in 2020 by PaleoWest (Knabb et al. 2021). Resource P-33-018242 consists of a metal MWD station marker that has been embedded in concrete to the east of Kaiser Road. The marker is stamped "The Metropolitan Water District of Southern California Triangulation Station/Do Not Disturb This Mark" The marker contains a date stamp of 1931. The object is likely associated with the construction of the CRA that took place throughout the 1930s.

7-9

Located on federally managed BLM land, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

P-33-019415 (also recorded as P-33-022249 and P-33-023910) is a complex of historic-era structures, a portion of which intersect the Project's direct impact area. The resource consists of the 161 kV Blythe-Eagle Mountain Transmission Line, an associated access road, and a three-wire domestic voltage power-line. The 161 kV transmission line runs from Eagle Mountain, near Desert Center, to Blythe. Approximately 45 to 50 feet in width, the Blythe-Eagle Mountain Transmission Line consist of a series of double pole, wood towers supporting three transmission lines.

The Blythe-Eagle Mountain Transmission Line was previously evaluated for listing on CRHR in 2011 and recommended not eligible under all criteria. The California Public Utilities Commission (CPUC) concurred with the eligibility recommendation in their certification of the EIS prepared for the Desert Sunlight Solar Project (BLM 2011; CPUC 2011). Further, the County determined that the resource again was not individually eligible for listing in the CRHR in 2019 (County of Riverside 2019). Chronicle Heritage revisited the portion of P-33-019415 within the current Project area in April 2023 and found that the current condition of the transmission line, access road, and domestic powerline are unchanged since 2021 and the previous determination remains valid. Therefore, Chronicle Heritage supports the previous determination of P-33-019415 as not eligible for listing in the CRHR.

P-33-019419 (also recorded as P-33-029056/CA-RIV-12980) consists of the Mecca-Blythe Highway that intersects the gen-tie portion of the Project's direct effects APE. The highway is a historic-period automobile road that traverses the Chuckwalla Valley. Multiple segments of the road were previously recorded by Æ (Hanes et al. 2019b) and PaleoWest (Knabb et al. 2021). Historic maps indicate that by 1918, the highway ran in a roughly east-west direction across the valley floor for distance of approximately 95 mi. The State of California took control of the Mecca-Blythe Highway in 1925, with portions of the route eventually incorporated into U.S. Highway 60/70. Historic records indicate that portions of the road were later re-used during WWII to support DTC/C-AMA military training activities in the Chuckwalla Valley (Hanes et al. 2019b).

Chronicle Heritage's revisit to Resource P-33-019419 found that the portion of the historic-era structure within the direct impact area consists of a two-track dirt road that is 20 to 25 ft wide. The condition of the resource is unchanged since 2021.

The resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

19-387-EM-023H is a historic period unimproved dirt road within the direct impact area of the proposed gen-tie corridor. The structure was initially recorded in 2021 by PaleoWest (Knabb et al. 2021) as an approximately 2.4-mi-long road and runs from I-10 in a roughly northeast direction to Comanche Trail. The road was recorded as between 10 and 12 ft wide with low berms (less than 3 ft high) running along both the east and west sides. No artifacts were identified that appeared to be associated with the road alignment. Historical aerial images of the area indicate that Resource 19-387-EM-023H was in use as early as 1953 (UCSB 2021).

<u>Chronicle Heritage's revisit to Resource 19-387-EM-023H found that the portion of the road within the direct impact area is currently being used as an access road for the Oberon Solar Project. The road has been widened to a width of approximately 30 ft, with the roadbed showing signs of recent grading and compaction.</u>

<u>Unevaluated for listing in the CRHR, recorded portions of the resource being located on federally managed</u> <u>BLM land not subject to County jurisdiction, the resource was determined by BLM, with SHPO concur</u>rence, to be not eligible for listing in the NRHP as part of the Project.

7-9

19-387-EM-024H is a historic period unimproved dirt road within the direct impact area of the proposed gen-tie corridor. The structure was initially recorded in 2021 by PaleoWest (Knabb et al. 2021) as an approximately 2.0-mi-long road that runs in a northeast direction from a point north of I-10 to Comanche Trail. The dirt road was recorded as between 10 and 12 ft wide and in relatively good condition. Historical aerial images of the area indicate that Resource 19-387-EM-024H was constructed by the early 1950s (UCSB 2021).

<u>Chronicle Heritage's revisit to Resource 19-387-EM-024H found that the portion of the road within the direct impact area is currently being used as an access road for the Oberon Solar Project. The road has been widened to a width of approximately 30 ft, with the roadbed showing signs of recent grading and compaction.</u>

Unevaluated for listing in the CRHR, recorded portions of the resource being located on federally managed BLM land not subject to County jurisdiction, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

19-387-KJ-BE-009H is a historic period object within the proposed solar array portion of the Project's direct impact area. The resource consists of a County of Riverside (County) ROW marker that lies appropriately 80 ft east of Kaiser Road. It was initially recorded in 2020 by PaleoWest (Knabb et al. 2021). The object is described as an iron pipe with a brass cap which is embossed "RW/COUNTY/STA 240/ SURVEYOR/ 100." The marker appears to designate the edge of the County ROW associated with Kaiser Road.

Unevaluated for listing in the CRHR, recorded portions of the resource being located on federally managed BLM land not subject to County jurisdiction, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

HL-BE-004H consists of the historic-era Green Acres Mobile Home Park. The resource encompasses a 9.4-acre triangular-shaped parcel (APN 808-030-011) on the southeast side of SR-177/Rice Road. The park currently houses a mix of recreational vehicles, vehicle-pulled trailers, and mobile homes, but contains little permanent infrastructure. An L-shaped road (Capp Road) provides access to concrete pads where recreational vehicles and small trailers can be parked. A smaller road connecting both sides of Capp Road is fronted by several more permanent mobile homes. Utility lines along the southern and eastern sides of the parcel bring power to the site. The County of Riverside Assessor (2023) lists the construction date of the park as 1967. A review of aerial images indicates that aside from some minor changes in landscaping, the mobile home park has changed little since it was constructed.

Although the mobile home park is associated with historic settlement in the area, there is no evidence to indicate that the property is directly associated with any events that made a significant contribution to the broad patterns of our history. Furthermore, the mobile home park cannot be associated or linked with any particular person. Thus, the historic built-environment resource is not eligible for listing in the CRHR under Criteria 1 and 2. The permanent infrastructure associated with the mobile home park does not embody the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, or possess high artistic values, or represent a significant and distinguishable entity whose components may lack individual distinction; therefore, HL-BE-004H is not significant under Criterion 3. Because additional study of the resource is unlikely to contribute important information on late twentieth-century settlement that occurred in the Chuckwalla Valley, the mobile home park is not significant under CRHR under any criteria.

HL-BE-005H consists of a cluster of historic-era wastewater sewage ponds in the proposed solar array portion of the Project's direct effects APE. The resource is on a 40-acre parcel owned by the County (APN 808-230-005). The structure was documented in May 2023. The ponds are part of the sewage treatment plant in the County's Service Area 51 which serves the Desert Center, Lake Tamarisk, and Eagle Mountain area. The structure consists of eight rectangular-shaped earthen depressions within a 770 by 700 ft area. Some of the depressions are filled with water and appear to be used as evaporation/ percolation ponds. The entirety of the site is fenced. Historic documents indicate that the facility was constructed 1969 (Frankel and Juergens 1980).

7-9

<u>Unevaluated for listing in the CRHR, as it is located on federally managed BLM land not subject to County</u> jurisdiction, the resource was determined by BLM, with SHPO concurrence, to be not eligible for listing in the NRHP as part of the Project.

Historic Districts

The Prehistoric Trails Network Cultural Landscape/Historic District (PTNCL) is a historic district that encompasses the entirety of the Project area. The District consists of prehistoric resources and landforms associated with the Halchidoma (or Coco-Maricopa) Trail (P-33-000053). The boundary of the PTNCL extends along the length of the historically known route of the trail, from where it begins near Blythe at the Colorado River, continuing to the west through the Chuckwalla Valley towards modern Los Angeles. The PTNCL has been designated as a noncontiguous cultural landscape that incorporates prehistoric archaeological sites associated with P-33-000053/CA-RIV-53T (CEC 2014). It can be broadly defined as having a width of approximately 10 miles that is centered along the I-10 corridor and within the viewshed of that vantage point. The Project sits entirely within the defined boundaries of the PTNCL.

PTNCL site types are divided into three categories: destinations, trails, and trail-associated sites or features (RWQCB 2021:C-27). Destinations are defined primarily as water sources, but also include residential, religious, and resource-collection sites (Bagwell and Bastian 2010). Trails are linear alignments that were either created by the repeated passage of feet or by formal construction. Trail-associated sites or features may include concentrations of ceramics/pot drops, cleared circles, rock rings, rock clusters, rock cairns, rock alignments, petroglyphs, and geoglyphs. In places where the trail itself is not preserved, its route may be approximately traced by distinctive patterns of <u>the same</u> trail-associated sites and features <u>listed above</u>. The period of significance is the entire prehistoric and early historic periods. The thematic associations include travel, trade, ritual, and resource exploitation, particularly the collection of stone tool and ground stone raw materials.

The PTNCL was previously determined eligible for listing on the CRHR under Criteria 1 and 4 for the Palen Solar Project (RWQCB 2021:C-27). No trail segments have been documented or known to exist within the Project area of direct impacts. No trail associated sites or features have been documented within the Project area of direct impacts. No destination sites, such as water sources, residential, religious, and resource-collection sites, have been documented or known to existing with the Project area of direct impacts. CNo cultural remains identified associated with the PTNCL have been documented in the Project's Cultural Resources Study Area may be associated with the PTNCL if they can be demonstrated to be trail-associated sites or features. However, the resources identified include isolated flaked stone artifacts, isolated ceramic sherds, or sparse lithic scatters lacking diagnostic constituents. These archaeological resources broadly relate to thematic associations but are not directly associated with any documented constituents of the PTNCL. The closest documented constituents in clear association with of the PTNCL lie 5 meters south of the Project gen-tie, outside the area of direct impacts, area and include rock rings, rock cairns, and cleared circles. Other documented constituents of the PTNCL would include trail segments/ linear alignments, however, none have been located within the area of direct or indirect impacts.

The Desert Training Center Cultural Landscape/Historic District (DTCCL) is a contiguous historic district that encompasses the entirety of the Project area. Two-Six resources (P-33-006836, and P-33-0023675, P-33-015089, 33-023700, 19-387-EM-020H, and 19-387-KH-014H) located within the Project's direct impact area are eligible as contributors to this district. Additionally, nine resources associated with the DTCCL are located within the Project's direct impact area; however, these nine resources have been determined by BLM, with SHPO concurrence, to be not eligible for the NRHP but are unevaluated for the CRHR. The district resource consists of a collection of historical archaeological sites associated with the DTC/C-AMA in the Chuckwalla Valley and on the Palo Verde Mesa. The significance period is preliminarily defined as 1942–1944. The DTC/C-AMA was the largest and the only such military training facility in American military history. The BLM is in the process of preparing a NRHP Multiple Property Documentation Form (NPS 10-900-b) for DTC/C-AMA historic properties. In this draft document, the themes, trends, and patterns of history shared by the DTC/C-AMA properties are organized into historic contexts and the property types that represent those historic contexts are defined. The relevant themes include U.S. Preparation for WWII, U.S. Military Training, Gen. George S. Patton. Jr., and Gen. Walton Walker. Depots, airfields, ranges, bivouacs, maneuver areas, camps, and hospitals are among some of the property types included in the district. Most property types associated with the DTC/C-AMA, exist today as archaeological resources, such as refuse deposits, tank tracks, foxholes, and bivouacs.

The DTCCL was previously determined eligible for listing on the CRHR under Criterion 4 for the Palen Solar Project (Riverside County Planning Department 2019:3.6-24). Two-Six historic-era resources in the Project area have been previously identified as contributors to the DTCCL. These include the Desert Center Army Airfield (P-33-006836/CA-RIV-10759H),-and-the historic-period component of 496th Medium Ordinance Company camp (P-33-023675/CA-RIV-11595), an archaeological site featuring tank tracks and associated refuse (P-33-015089), a temporary camp (P-33-023700), tank tracks and associated fire ring (19-387-EM-020H), and a foxhole (19-387-KH-014H). Nine additional archaeological sites (see table 3.6-2) associated with the district located on portions of the Project on BLM-managed lands have been determined not eligible for listing in the NRHP are unevaluated for listing in the CRHR.

Lake Tamarisk Desert Resort consists of the Lake Tamarisk community and mobile home and RV resort located near the intersection of Oasis and Kaiser roads, south of Eagle Mountain. Based upon research in historic building permits, the first construction at this site occurred in 1968. Although Lake Tamarisk Desert Resort is greater than 50 years of age, it does not possess sufficient historical significance to merit consideration as a historical resource as defined in Public Resource Code Section 5024.1 and the California Environmental Quality Act (CEQA). Neither the Lake Tamarisk Desert Resort community nor Eagle Mountain Mine have previously been identified as historical resources.

Development of this area began with the establishment of a gas station and café in the community known as Desert Center beginning in the 1920s.¹⁵ The establishment of Desert Center occurred over 40 years before the establishment of Lake Tamarisk Resort Community. William Mulholland scouted the Desert Center area for the development of the Colorado River Aqueduct (CRA), which went online in the late 1930s. The Eagle Mountain Pumping Station is a component of the CRA and is located approximately 13 miles north of the Lake Tamarisk Resort Community. The CRA was built by and is managed by the Metropolitan Water District (MWD). As part of the construction of the CRA, MWD built support villages to house the maintenance crews and other services to maintain the CRA, including the Eagle Mountain Pumping Station, and features such as airports, roads, and other infrastructure.¹⁶ The CRA was fully functioning more than 30 years prior to the establishment of Lake Tamarisk Resort Community. During World War II, the Desert Training Center, located between Desert Center and Eagle Mountain, General

¹⁵ <u>https://www.latimes.com/local/lanow/la-me-eagle-mountain-20170807-htmlstory.html</u>

¹⁶ https://waterandpower.org/museum/Colorado%20River%20Aqueduct.html#:~:text=Historical%20Background,in%20western %20Riverside%20County%2C%20Calif.

<u>George Patton trained troops for deployment in desert conditions.¹⁷ Desert Training Center was designated a California Point of Historical Interest in 1968 (No. 87).¹⁸ Desert Training Center was an important training center during World War II, which ended in 1945, over 20 years prior to the establishment of Lake Tamarisk Resort Community.</u>

Kaiser Steel was located in Fontana, California (California Point of Historical Interest No. 452).¹⁹ Kaiser Steel acquired the Eagle Mountain Mine following the end of World War II for the purposes of providing raw iron ore to support its steel making factory in Fontana. The establishment of the Kaiser Eagle Mountain Mine has no association with World War II efforts as it came online after the end of the war. All accounts indicate Kaiser Steel, much like MWD, constructed a company town to provide comforts to its employees including housing, recreation facilities, and institutional facilities such as churches and schools. The Kaiser Steel Eagle Mountain Mine was a self-contained community that was constructed in the late 1940s, at least 20 years prior to the construction of Lake Tamarisk Resort Community. The Eagle Mountain Mine closed in 1982, virtually resulting in a ghost town for the mine's company town.²⁰

Based upon a review of historical aerials, by 1978, the eastern mobile home portion of Lake Tamarisk Desert Resort was developed and only two residences had been constructed on the lakes within the western portion of the community. The 2020 aerial indicates only approximately 50 percent of the western lake-side parcels were developed with residences.²¹

Based upon available evidence, the Lake Tamarisk Desert Resort community does not have a significant association with historic events to qualify as a historical resource. Any association with the Eagle Mountain Mine could not be substantiated through a review of the public record. The resort was developed nearly two decades after the significant development of Desert Center, the CRA, Desert Training Center, and the Eagle Mountain Mine. There is no evidence that the development of the Lake Tamarisk Desert Resort community has a demonstrably significant association with neighboring development. Persons who made demonstrably significant contributions to the history of the nation, state, or region are not known to be associated with the resort. As such, there is no evidence to indicate that the property is directly associated with any events that made a significant contribution to the broad patterns of our history. Furthermore, the mobile home park cannot be associated or linked with any particular person. Thus, the historic builtenvironment resource is not eligible for listing in the CRHR under Criteria 1 and 2. The Lake Tamarisk Desert Resort community primarily consists of mobile homes and modest Ranch-style residences; none of which are known to the work of a master nor possess artistic value. The permanent infrastructure associated with the Lake Tamarisk community does not embody the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, or possess high artistic values, or represent a significant and distinguishable entity whose components may lack individual distinction; therefore, the Lake Tamarisk Desert Resort is not significant under Criterion 3. Due to significant site preparation for the establishment of man-made water features and residential lots, the Lake Tamarisk Desert Resort does not have the potential to yield important information in history. Because additional study of the resource is unlikely to contribute important information on late twentieth-century settlement that occurred in the Chuckwalla Valley, the mobile home park is not significant under CRHR Criterion 4. Therefore, the Lake Tamarisk Desert Resort community is not eligible for listing in the CRHR as a historic district pursuant to any criterion and has no known features that would make it qualify listing in any local, state, or national register as a historical resource as defined by CEQA.

¹⁷ https://generalpattonmuseum.com/exhibits/desert-training-center/

¹⁸ <u>https://ohp.parks.ca.gov/ListedResources/Detail/P87</u>

¹⁹ <u>https://ohp.parks.ca.gov/ListedResources/Detail/P452</u>

²⁰ https://www.sfgate.com/travel/article/eagle-mountain-california-ghost-town-18096768.php

²¹ https://historicaerials.com/

Historical Resources in Indirect Impact Area

One identified historical resource, SR-177/Rice Road (P-33-025150; also recorded as P-33-023788/CA-RIV-11683), lies within the Project's indirect impact area. The historic roadway begins at I-10 near Desert Center and extends for 27 miles across the Chuckwalla Valley, eventually merging with SR 62. The MWD built the road in 1933 to facilitate the construction of the CRA. The road was originally known as Parker Dam Road or Aqueduct Road. It served as a trunk road from which branch roads were established to transport materials, equipment, and personnel to various points along the canal alignment. The road was added to the state highway system in 1972. The portion of the resource within the Cultural Resource Study area consists of a two-lane paved asphalt roadway that is 24 feet wide. The shoulders are unpaved with widths ranging from approximately 14 to 16 feet. The resource was previously determined eligible for inclusion in the CRHR under Criteria 1, 3, and 4.

3.6.3.5. AB 52 Native American Tribal Consultation

AB 52 states that once California Native American tribes have received the project notification letter, the tribe then has 30 days to submit a written request to consult (PRC § 21080.3.1(d)). Upon receiving a Tribe's written request to consult, the lead agency then has 30 days to begin tribal consultation. Consultation must include discussion of specific topics or concerns identified by tribes. Any information shared between the Tribes and the lead agency representatives is protected under confidentiality laws and not subject to public disclosure (GC § 6254(r); GC § 6254.10) and can be disclosed only with the written approval of the Tribes who shared the information (PRC § 21082.3(c)(1-2)).

Consultation as defined in AB 52 consists of the good faith effort to seek, discuss, and carefully consider the views of others. Consultation between the lead agency and a consulting Tribe concludes when either of the following occurs: (1) the parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists on a TCR; or (2) a consulting party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached (PRC § 21080.3.2(b)).

In compliance with AB52, notices regarding this Project were sent to all requesting tribes on July 12, 2022.

No response was received from Colorado River Indian Tribes, Quechan Indian Nation, Morongo Band of Mission Indians, Torres-Martinez Desert Cahuilla Indians, Twenty-Nine Palms Band of Mission Indians, Cahuilla Band of Indians, Ramona Band of Cahuilla Indians, Santa Rosa Band of Mission Indians, or Cabazon Band of Mission Indians.

The Augustine Band of Cahuilla Indians responded in an emailed letter dated July 13, 2022. The letter stated that the tribe is unaware of any specific cultural resources that may be affected by the Project. The tribe did not request consultation.

The Agua Caliente Band of Cahuilla Indians responded in an emailed letter dated August 22, 2022. A meeting was held on July 31, 2023, in which this Project was discussed. On November 2, 2023, the cultural report and the project conditions of approval were provided to the tribe. A subsequent letter was received from Agua Caliente dated November 17, 2023, stating that proper mitigation measures had been proposed by the County and that the concerns of the Agua Caliente Band of Cahuilla Indians, Tribal Historic Preservation officer had been addressed. The letter concluded consultation.

The Soboba Band of Luiseno Indians responded in a letter dated August 9, 2022, stating that the Project is situated within their Tribal Traditional Use Area and that there are existing sites in the area of the project. Soboba requested consultation and this was initiated on August 11, 2022. A meeting was held on June 28, 2023, in which this Project was discussed. No specific Tribal Cultural resources or impacts were identified by Soboba in this meeting. On November 2, 2023, the cultural report and the Project conditions of approval were provided to the tribe. Another follow-up email was sent to the tribe on January 4, 2024.

Although no specific physical <u>impacts to</u> Tribal Cultural Resources were identified Agua Caliente and Soboba expressed concerns that the Project has the potential for as yet unidentified subsurface tribal cultural resources. The tribes request that a Native American monitor be present during ground disturbing activities so any unanticipated finds will be handled in a timely and culturally appropriate manner.

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The Project also will be required to adhere to State Health and Safety Code Section 7050.5 in the event that human remains are encountered and by ensuring that no further disturbance occur until the County Coroner has made the necessary findings as to origin of the remains. Furthermore, pursuant to Public Resources Code Section 5097.98 (b), remains shall be left in place and free from disturbance until a final decision as to the treatment and their disposition has been made. This is State Law and a standard condition of approval and is not considered a mitigation measure for the purposes of this project. Further, CEQA requires the Lead Agency to address any unanticipated cultural resources discoveries during Project construction. Therefore, a condition of approval that dictates the procedures to be followed should any unanticipated cultural resources be identified during ground disturbing activities has been placed on this Project. This is also a standard condition of approval and is not consider of approval and is not considered for the purposes of this Project.

Other Tribal Comments

The Colorado River Indian Tribes (CRIT) provided a comment during the public review period of the original Draft EIR suggesting that the Chuckwalla Valley and its slopes and ridgelines have cultural significance to CRIT. While CRIT does not clearly take the position that the Chuckwalla Valley itself qualifies as a tribal cultural resource, the valley does not appear eligible to be a TCR. Under Public Resources Code section 21074 (a), "Tribal cultural resources" are either of the following:

(1) Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either of the following:

(A) Included or determined to be eligible for inclusion in the California Register of Historical Resources.

(B) Included in a local register of historical resources as defined in subdivision (k) of Section 5020.1.

(2) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Section 5024.1. In applying the criteria set forth in subdivision (c) of Section 5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American tribe.

<u>Further, under subsection (b), "A cultural landscape that meets the criteria of subdivision (a) is a tribal</u> <u>cultural resource to the extent that the landscape is geographically defined in terms of the size and scope</u> <u>of the landscape."</u>

The Chuckwalla Valley and its slopes and ridgelines are not included in the CRHR or in a local register of historical resources and have not been determined eligible for listing. The Chuckwalla Valley and its slopes and ridgelines also are broad, non-geographically defined terms and do not provide clear boundaries of the proposed "landscape." Additionally, although CRIT indicates the Valley are ancestral lands, previous efforts to define a period of significance for the Chuckwalla Valley found temporal association difficult to establish beyond Holocene occupations.²² The geologic and geographic features of the valley are not associated with a distinct historic event, activity or person and do not embody particular cultural or aesthetic values that differentiate it from surrounding geographic features. Development within and

²² Ford Dry Lake Study Area National Register of Historic Places Eligibility Evaluation, Genesis Solar Energy Project (09-AFC-8C), <u>Riverside County, California</u>

around the valley has over time made it difficult to state that the valley as a whole maintains authenticity or historic integrity as a natural landscape. There is no record that valley is designated as a sacred site. Defining a landscape that encompasses Chuckwalla Valley would be unlikely to expand on this finding.

3.6.4. CEQA Significance Criteria

Section V of Appendix G to the State CEQA Guidelines addresses typical adverse changes in the significance of a historical resource and/or archaeological resource as defined under California Code of Regulations, Title 14, Chapter 3, Section 15064.5. The proposed Project would result in a significant impact under CEQA related to cultural resources and tribal cultural resources if the Project would:

- a. Cause a substantial adverse change in the significance of a historical resource as defined in California Code of Regulations, Section 15064.5 (see Impact CUL-1).
- b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to California Code of Regulations, Section 15064.5 (see Impact CUL-2).
- c. Cause a substantial adverse change in the significance of a unique archaeological resource pursuant to California Code of Regulations, Section 15064.5 (see Impact CUL-3).
- d. Disturb any human remains, including those interred outside of formal cemeteries (see Impact CUL-4).
- e. Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:
 - i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k) (see Impact TCR-2), or
 - ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe (see Impact TCR-1).

The County of Riverside's Environmental Assessment Form includes additional significance criteria, which were also used in the analysis. Almost all of the County of Riverside criteria for the issue area of Cultural and Tribal Cultural Resources are identical to existing the CEQA criteria for that issue area, except for the following criteria. The additional criteria differing from the above CEQA criteria that indicate that a project could have potentially significant impacts are:

- a. Alter or destroy a historic site (see Impact CUL-1).
- b. Alter or destroy an archaeological site (see Impacts CUL-2 and CUL-3).

Under all these criteria, adverse changes and impacts would be the following:

- Physical, visual, or audible disturbances resulting from construction and development that would affect the integrity of a resource or the qualities that make it eligible for the CRHR.
- Exposure of resources to vandalism or unauthorized collecting.
- A substantial increase in the potential for erosion or other natural processes that could affect resources.

Neglect of a resource that causes its deterioration, except where such neglect and deterioration are recognized qualities of a property of religious and cultural significance to a Native American tribe.

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Transfer, lease, or sale of a resource out of federal ownership or control without adequate and legally enforceable restrictions or conditions to ensure long-term preservation of the resource's historic significance.

3.6.5. Proposed Project Impact Analysis

This section analyzes impacts to cultural resources identified within the Cultural Resource Study Area, which includes the <u>988-3,888</u> acres of private land that are under County jurisdictionlands comprising the <u>Project area</u>, both on private and <u>BLM-managed lands</u>, and surrounding 1-mile area. This section also includes an examination of the Project's cultural resources impacts per the County's Environmental Assessment Checklist identified above.

This analysis considers both direct and indirect impacts to cultural resources.

- Direct impacts to cultural resources are those associated with Project construction, operation, maintenance, and decommissioning. Construction usually entails surface and subsurface ground disturbance, and direct impacts to cultural resources may result from the immediate disturbance of the deposits, whether from vegetation removal, vehicle travel over the surface, earth-moving activities, excavation, or demolition of overlying structures. Construction can have direct impacts on historical built-environment resources when those buildings or structures must be removed to make way for new buildings or structures or when the vibrations of construction impair the stability of historical built-environment resources when the structures can have direct impacts on historical built-environment resources when the new buildings or structures are stylistically incompatible with their neighbors and the setting, or when the new buildings or structures produce a harmful effect to the materials or structural integrity of the historical built environment resources, such as emissions or vibrations.
- Indirect impacts to cultural resources are those that may result from increased erosion due to site clearance and preparation or from inadvertent damage or outright vandalism to exposed resource components due to improved accessibility. Similarly, historical built environment resources can suffer indirect impacts when Project construction creates potentially damaging noise and vibration, improved accessibility and vandalism, or greater weather exposure. The long-term presence of solar panels, transmission lines, or towers also has the potential to result in indirect visual impacts to significant cultural resources where setting is a key contributor to the property's importance.

Additionally, unknown and/or potentially significant buried resources could be inadvertently unearthed during ground-disturbing activities during construction and decommissioning. Destruction of potentially significant cultural resources could be a significant impact.

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to cultural and tribal cultural resources. The Native American Heritage Commission (NAHC) recommended early consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of the Project, to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. The NAHC also recommends the following steps that have been incorporated into the Native American consultation processes and EIR mitigation measures herein:

- Contacting the appropriate regional California Historical Research Information System (CHRIS) Center, for an archaeological records search;
- Contacting the NAHC for a Sacred Lands File search and a Native American Tribal Consultation List;

 Preparation of a professional report detailing the findings and recommendations of the records search and field survey, if an archaeological inventory survey is required;

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- Lead agencies should include provisions for the identification and evaluation of inadvertently discovered archaeological resources in their mitigation and monitoring reporting program plan, because the lack of subsurface evidence of archaeological resources does not preclude their subsurface existence;
- Monitoring all ground-disturbing activities by a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources; and
- Lead agencies should include in their mitigation and monitoring reporting program plans previsions for the disposition of recovered cultural items and for inadvertently discovered Native American remains.

Several commentors from the Lake Tamarisk Desert Resort expressed concerns about the General Patton Desert Training Center historical area and are concerned about impacts to the artifacts in the area. One commentor stated that the Project seems to conflict with the BLM objectives of preserving features at historically significant sites, such as the General Patton training area.

Applicant-Proposed Measure

APM CULT-1 Native American Monitoring. The Applicant will enter into an agreement with interested culturally-affiliated and/or consulting tribe(s) to employ at least one Native American Monitor per archaeological monitor. A Native American monitor will be called immediately upon discovery of a cultural resource if a Native American monitor is not already present. In conjunction with the County- and BLM-approved archaeologist(s), the Native American Monitor will be invited to monitor all initial ground disturbing activities and excavation of each portion of the Project site including clearing, grubbing, tree removals, grading and trenching, as outlined in the Project's Cultural Resource Monitoring Plan (see Mitigation Measures [MMs] CUL-1 and TCR-1), and attend meeting(s) to discuss the significance of unanticipated find(s) and appropriate treatment of unanticipated resources. The Applicant will immediately alert interested culturally-affiliated and consulting tribes in the event of an unanticipated discovery. "Native American Monitor" means an individual who is presented as a representative of a tribal government for one of the culturally-affiliated or consulting tribes for the Easley Project and who has received specialized training approved by that tribal government to serve as a monitor.

3.6.5.1. Cultural Resources

Impact CUL-1. The Project would cause a substantial adverse change in the significance of a historical resource as defined in California Code of Regulations, Section 15064.5.

Less than Significant with Mitigation.

Direct Impacts. As stated in Section 3.6.3, Methodology for Analysis, there are no known CRHR-eligible historical resources (i.e., historic built-environment resources) in the Project's direct impact area for construction, operations, maintenance, and decommissioning. Therefore, the Project would not alter or destroy a historical resource.

The Project site has the potential to contain previously unknown archaeological deposits that may underlie the ground surface. Should buried archaeological deposits be uncovered during project implementation, and should such resources qualify as historical resources under CEQA, they could be subject to direct impacts as a result of Project construction. Direct effects to any newly identified resources would be addressed by the implementation of Mitigation Measures (MM) CUL-1 through MM CUL-6, which

would reduce these impacts to less-than-significant levels by requiring cultural resources training for construction workers, archaeological monitoring during construction, and appropriate treatment of unearthed archaeological resources during construction. Because no historical resources would be subject to direct impacts from the implementation of the Project, no mitigation is necessary.

Indirect Impacts. One CRHR-eligible historical resource, SR-177/Rice Road (P-33-025150; also recorded as P-33-023788/CA-RIV-11683), lies adjacent to the Project in the indirect impact area. The historic roadway has been determined eligible for inclusion in the CRHR under Criterion 1, 3, and 4. The Project would be clearly visible from this historical resource. However, the visual changes would be in kind with the current nature and scale of existing visible developments. Visual impacts to the setting would be addressed by the following measures: Mitigation Measures AES-1 and AES-2, which would employ design elements that reduce the visual contrast to characteristics of the landscape. With implementation of these mitigation measures, the proposed Project would not compromise the integrity of the resource <u>or materially alter in an adverse manner the characteristics of the resource that convey its historical significance and justify its eligibility for inclusion in the CRHR. As such, SR-177/Rice Road is not subject to significant indirect impacts from the construction, operation, maintenance, or the decommissioning of the solar and BESS facility and gen-tie line.</u>

Mitigation Measures for Impact CUL-1

- MM AES-1 Surface Treatment of Project Structures and Buildings. See full text in Section 3.2 (Aesthetics).
- **MM AES-2 Project Design.** See full text in Section 3.2 (Aesthetics).

Significance After Mitigation

This impact would be less than significant with implementation of mitigation.

Impact CUL-2. The Project would cause a substantial adverse change in the significance of an archaeological resource, pursuant to California Code of Regulations, Section 15064.5.

LESS THAN SIGNIFICANT WITH MITIGATION.

Direct Impacts. There are 3 known CRHR-eligible archaeological resources in the Project's direct impact area. The entirety of the Project area lies within the boundaries of two CRHR-eligible historic districts (PTNCL and DTCCL).

No PTNCL trail segments have been documented or known to exist within the Project area of direct impacts. No character defining features of the PTNCL have been documented or are known to exist with the Project area of direct impacts. No prehistoricPrehistoric archaeological remains identified in the Project's direct impact area would be associated with the PTNCL if they were trail-associated sites or features. The prehistoric remains identified include isolated lithics and ceramics, and sparse lithic scatters that are not indicative of projectile point or diagnostic tool manufacture. While lithic and ceramic remains broadly relate to PTNCL themes surrounding resource procurement and manufacture, these resource types are ubiquitous throughout the Chuckwalla Valley. The prehistoric sites and isolates located within the Project's direct impact area are not associated with any character defining archaeological resources such as petroglyphs, pot drops, or webs of intersecting trails (CEC 2014). The archaeological resources are not individually CRHR-eligible and do not contribute to the historical significance of the PTNCL. Due to the widespread occurrences of the archaeological resource types and because of their lack of association with character defining features of the PTNCL, removal of these sites and isolates would not alter the PTNCL's

ability to convey its historical significance and would not constitute an adverse impact to the PTNCL. have been identified in the Project's direct impact area.

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Two Fifteen contributors to the DTCCL, P 33 006836 (Desert Center Army Airfield) and P 33 023675 (496th Medium Ordinance Company), are mapped within the Project's direct impact area, only one of which, P-33-023675 (496th Medium Ordnance Company),. The latter of these sites has also been previously determined eligible for individual listing in the CRHR under Criteria 1 and 4. Results of the Phase I survey found no evidence of archaeological remains associated with P-33-023675 within the Project's direct impact area, and, thus, would not be subject to direct impacts from the construction, operations, maintenance, or the decommissioning of the BESS and solar facility and gen-tie line. For the other 14 resources associated with the DTCCL, these resources are not eligible for the CRHR in their own right under any criteria, so are not subject to direct impacts. Results of the Phase I survey found no evidence of archaeological remains associated resources would be subject to direct impacts from the construction operations direct impact area. Because no significant archaeological resources would be subject to direct impacts from the construction, operations, maintenance, or the decommissioning of the decommissioning of the BESS and solar facility and gen-tie line. For the other 14 resources associated with either P-33 006836 or P-33 023675 within the Project's direct impact area. Because no significant archaeological resources would be subject to direct impacts from the construction, operations, maintenance, or the decommissioning of the BESS and solar facility and gen-tie line, no mitigation is necessary.

The Project site has the potential to contain previously unknown archaeological deposits that may underlie the ground surface. Should buried archaeological deposits be uncovered during project implementation, and should such resources qualify as historical resources under CEQA, they could be subject to significant impacts. Direct effects to any newly identified resources would be addressed by the implementation of Mitigation Measures (MM) CUL-1 through MM CUL-6, which would reduce these impacts to lessthan-significant levels.

Indirect Impacts. Portions of the PTNCL, DTCCL, and P-33-023675 are located within the Project's indirect impact area. The Project would be a prominent element on the landscape and would be clearly visible from these resources. However, the visual changes would be in kind with the current nature and scale of existing visible developments. Further, the PTNCL is primarily associated with destinations, trails, and trailassociated sites or features that relate to travel, trade, ritual, and resource exploitation, particularly the collection of stone tool and ground stone raw materials. The historical significance of those characteristics primarily relates to travelers going to or from a destination and is linear in nature. The closest documented constituents in clear association with the PTNCL lie 5 meters south of the Project gen-tie, outside the area of direct impacts, and include rock rings, rock cairns, and cleared circles. The Project elements closest to them (namely, the gen-tie line) would be in kind with existing infrastructure and, thus, views of the Project from these locations would not affect their historical significance or the historical significance of use associated with the PTNCL beyond the current conditions. There are no other documented character defining features associated with the PTNCL near the Project site which would be adversely impacted by views of the Project. Visual impacts to the setting would be addressed by the following measures: Mitigation Measures AES-1 and AES-2, which would employ design elements that reduce the visual contrast to characteristics of the landscape. Therefore, the proposed Project would not compromise the integrity of the resources or materially alter in an adverse manner any characteristics of the resources that convey their historical significance. As such, these archaeological resources would not be subject to significant indirect impacts from the construction, operation, maintenance, or the decommissioning of the BESS and solar facility and gen-tie line.

Mitigation Measures for Impact CUL-2

- MM AES-1 Surface Treatment of Project Structures and Buildings. See full text in Section 3.2 (Aesthetics).
- MM AES-2 Project Design. See full text in Section 3.2 (Aesthetics).

MM CUL-1Project Archaeologist and Cultural Resource Monitoring Plan. See full text in Section
3.6.9 (Mitigation Measures).

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- **MM CUL-2** Develop and Implement Cultural Resources Environmental Awareness Training. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-3 Archaeological Monitoring. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-4 Unanticipated <u>DiscoveryResources</u>. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-5 Treatment of Human Remains. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-6 Phase IV Monitoring Report. See full text in Section 3.6.9 (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant with implementation of mitigation.

Impact CUL-3. The Project would cause an adverse change in the significance of a unique archaeological resource pursuant to California Code of Regulations, Section 15064.5.

LESS THAN SIGNIFICANT WITH MITIGATION. No unique archaeological resources have been identified to date in the Project's direct or indirect impact areas. Therefore, the Project would not cause an adverse change in the significance of any known unique archaeological resources. Should a unique archaeological resource be identified during construction, operations, maintenance, and decommissioning of the Project, direct effects to any newly identified unique archaeological resources would be addressed by the implementation of Mitigation Measures CUL-1 through MM CUL-6, which would reduce potential impacts to a less-than-significant level.

Mitigation Measures for Impact CUL-3

- MM CUL-1 Project Archaeologist and Cultural Resource Monitoring Plan. See full text in Section 3.6.9 (Mitigation Measures).
- **MM CUL-2 Develop and Implement Cultural Resources Environmental Awareness Training.** See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-3 Archaeological Monitoring. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-4 Unanticipated DiscoveryResources. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-5 Treatment of Human Remains. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-6 Phase IV Monitoring Report. See full text in Section 3.6.9 (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant with implementation of mitigation.

Impact CUL-4. The Project would disturb any human remains, including those interred outside of dedicated cemeteries.

LESS THAN SIGNIFICANT WITH MITIGATION. A review of the archaeological record searches and results of recent Phase I survey did not identify any human remains in the Project's direct or indirect impact areas. However, previously unidentified human remains could be found and potentially impacted (directly or indirectly) during Project construction and decommissioning. If human remains or related resources are discovered, such resources shall be treated in accordance with state and local regulations and guidelines that govern the disclosure, recovery, relocation, and preservation of human remains (14 CCR 15064.5[e]). With incorporation of MM CUL-5, any potential impacts on human remains would be less than significant.

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Mitigation Measures for Impact CUL-4

MM CUL-5 Treatment of Human Remains. See full text in Section 3.6.9 (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant with implementation of mitigation.

3.6.5.2. Tribal Cultural Resources

Impact TCR-1. The Project would cause adverse change in the significance of a Tribal Cultural Resource determined by the Lead Agency.

LESS THAN SIGNIFICANT WITH MITIGATION. The direct and indirect impacts of solar and BESS facility and gentie line construction, operations, maintenance, and decommissioning, would could potentially cause disturbance or damage to tribal cultural resources. This would be a significant impact under criterion TCR-1 (adverse change in the significance of a tribal cultural resources identified through tribal consultation). However, impacts are not anticipated because no tribal cultural resources determined by the County have been found in the Project area or identified through tribal consultation that are listed in the CRHR or have been determined to be eligible for such listed nor is there evidence on which the County could in its discretion determine that there are tribal cultural resources impacted by the Project. Should buried archaeological deposits be uncovered during project implementation, and should such resources qualify as tribal cultural resources under CEQA, they could be subject to significant impacts under criterion TCR-1 (adverse change in the significance of a tribal cultural resources identified through tribal consultation). Direct effects to any newly identified resources would be addressed by the implementation of Mitigation Measures (MM) CUL-1 through MM CUL-6, MM TCR-1, and MM TCR-2, which would reduce these impacts to less-than-significant levels by requiring cultural resources training for construction workers, archaeological and Native American monitoring during construction, and appropriate treatment of unearthed archaeological resources during construction. A Native American Monitor is defined as an individual who is presented as a representative of a tribal government for one of the AB 52 Consulting Tribes for the Easley Project and who has received specialized training approved by that tribal government to serve as a monitor.

Mitigation Measures for Impact TCR-1

- **MM CUL-1 Project Archaeologist and Cultural Resource Monitoring Plan**. See full text in Section 3.6.9 (Mitigation Measures).
- **MM CUL-2** Develop and Implement Cultural Resources Environmental Awareness Training. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-3 Archaeological Monitoring. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-4 Unanticipated DiscoveryResources. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-5 Treatment of Human Remains. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-6 Phase IV Monitoring Report. See full text in Section 3.6.9 (Mitigation Measures).
- MM TCR-1 Native American Monitor. See full text in Section 3.6.9 (Mitigation Measures).

MM TCR-2 Artifact Disposition. See full text in Section 3.6.9 (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant with implementation of mitigation.

Impact TCR-2. The Project would cause adverse change in the significance of a Tribal Cultural Resource eligible for or listed on the CRHR or in a local register of historical resources as defined in Public Resources Code section 5020.1 (k).

LESS THAN SIGNIFICANT WITH MITIGATION. The direct and indirect impacts of solar and BESS facility and gentie line construction, operations, maintenance, and decommissioning, could cause disturbance or damage to tribal cultural resources. This would be a significant impact under criterion TCR-2 (adverse change in the significance of a tribal cultural resources eligible or listed on the CRHR). However, no TCRs have been identified and therefore this project would have no impact. As discussed above, no PTNCL trail segments have been documented or are known to exist within the Project area of direct impacts. Additionally, no other character defining features of the PTNCL have been documented or known to existing with the Project area of direct impacts. The prehistoric archaeological resources identified on the Project site include isolated lithics and ceramics, and sparse lithic scatters. While these prehistoric archaeological resources broadly relate to the time period of the PTNCL, they are ubiquitous throughout the Chuckwalla Valley and are not associated with any destination sites or character defining features of the PTNCL. The resources are not individually CRHR-eligible and do not contribute to the significance of the PTNCL. Due to their widespread occurrences, removal of these sites and isolates would not alter the PTNCL's ability to convey its historical significance and would not constitute and an adverse impact to the PTNCL. Thus, the Project would not demolish or materially alter in an adverse manner any characteristics of the PTNCL that convey its historical significance and justify its eligibility for inclusion in the CRHR. Should a tribal cultural resource be identified during construction, operations, maintenance, and decommissioning of the Project, direct effects to the newly identified resource would be addressed by the implementation of Mitigation Measures CUL-1 through MM CUL-6, MM TCR-1, and MM TCR-2, which would reduce potential impacts to a less-than-significant level.

Mitigation Measures for Impact TCR-2

- **MM CUL-1 Project Archaeologist and Cultural Resource Monitoring Plan**. See full text in Section 3.6.9 (Mitigation Measures).
- **MM CUL-2 Develop and Implement Cultural Resources Environmental Awareness Training.** See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-3 Archaeological Monitoring. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-4 Unanticipated DiscoveryResources. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-5 Treatment of Human Remains. See full text in Section 3.6.9 (Mitigation Measures).
- MM CUL-6 Phase IV Monitoring Report. See full text in Section 3.6.9 (Mitigation Measures).
- MM TCR-1 Native American Monitor. See full text in Section 3.6.9 (Mitigation Measures).
- MM TCR-2 Artifact Disposition. See full text in Section 3.6.9 (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant with implementation of mitigation.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.6.6. Cumulative Impacts

Geographic Scope

Cultural cumulative impacts include the Project's impacts and those likely to occur as a result of other existing, proposed, and reasonably foreseeable projects (refer to Tables 3.1-1, Past and Present Projects or Programs in the Project Area, and 3.1-2, Probable Future Projects in the Project Area). The Desert Center area was selected as the geographic scope, because the archaeological and historical resources within this area are expected to be similar to those that occur on the Project site due to their proximity and because similar environments, landforms, and hydrology would result in similar land use and, thus, site types.

Most of these projects involved or will involve grading or other excavation activities that have the potential to impact cultural resources. If adopted, the proposed expansion of Joshua Tree National Park and creation of Chuckwalla National Monument would re-designate existing federal lands in the Project vicinity but would not create physical changes in the environment that would contribute to cumulative impacts. Such designations would afford additional protection to cultural and tribal cultural resources.

Cumulative Impact Analysis

As discussed under Impact CUL-1 the Project would not alter or destroy a historical resource, either directly or indirectly. There are no known CRHR-eligible historical resources in the Project's direct impact area. Because the visual changes resulting from the Project would be in kind with the current nature and scale of existing visible developments, the portion of SR-177/Rice Road (P-33-025150) within the indirect impact area would also not be impacted by the Project. <u>Cumulative projects similarly would be in kind with the current nature and scale of existing visible developments and would be subject to similar measures designed to avoid and minimize impacts to historical resources. Therefore, <u>cumulative impacts would be less than significant</u>, and the Project would not make a <u>cumulatively</u> considerable contribution to cumulative impacts on any known CRHR-eligible historical resources.</u>

As discussed under Impact CUL-2 the Project would not alter or destroy any CRHR-eligible archaeological resources, either directly or indirectly. No evidence of P-33-023675 or, the PTNCL, or the DTCCL were identified within the Project's direct impact area. Archaeological resources located within the Project's direct impact area are not associated with any sites or trail segments of the PTNCL and do not contribute to the historical significance of the PTNCL. Due to their widespread occurrences, removal of these sites and isolates would not alter the PTNCL's ability to convey its historical significance. Furthermore, because However, while the visual changes resulting from the Project would be in kind with the current nature and scale of existing visible developments, the addition of more industrial components to the Chuckwalla Valley, as a result of the Project in combination with past projects, other current projects, and probable future projects, would contribute to adverse visual impacts to the PTNCL, particularly from character defining features within the PTNCL. The Project would implement Mitigation Measures CUL-1 through MM CUL-6, MM TCR-1, MM TCR-2, AES-1 and AES-2, which would avoid and minimize impacts to archaeological resources and employ design elements that reduce the Project's visual contrast to characteristics of the landscape, reducing project-level impacts to less than significant. Cumulative projects would likely be required to implement similar measures. However, cumulative visual impacts to the PTNCL would remain significant, and the Project's incremental contribution would be cumulatively considerable.the portion of these resources within the indirect impact area would also not be impacted by the Project. Therefore, the Project would not make a considerable contribution to cumulative impacts on any known CRHR-eligible archaeological resource.

As discussed under Impact CUL-3, the Project would not alter or destroy a unique archaeological resource, either directly or indirectly. There are no known unique archaeological resources in the Project's direct or indirect impact areas. <u>Cumulative projects would be subject to measures designed to avoid and minimize impacts to archaeological resources</u>. Therefore, <u>cumulative impacts would be less than significant</u>, and the Project would not contribute to cumulative impacts to any unique archaeological resource.

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As discussed under Impact CUL-4, the Project would not disturb any human remains, including those interred outside of dedicated cemeteries. This is because a<u>A</u> review of the archaeological record search and results of recent surveys did not identify any human remains, burial sites, or cemeteries in the Project area. If human remains or related resources are discovered, such resources shall be treated in accordance with state and local regulations and guidelines that govern the disclosure, recovery, relocation, and preservation of human remains (14 CCR 15064.5[e]) and in accordance with relevant mitigation measures. Cumulative projects would be subject to the same requirements. Therefore, cumulative impacts would be less than significant, and the Project<u>'s impacts combined with those of nearby projects</u> would not result in a cumulatively considerable impact on human remains, including those interred outside of dedicated cemeteries.

As discussed under Impacts TCR-1 and TCR-2, the Project would not cause adverse change in the significance of a tribal cultural resource determined by a lead agency or eligible for or listed on the CRHR or local register of historic resources and would be subject to various mitigation measures to avoid, minimize, or mitigate impacts to any tribal cultural resources identified during construction, operations, maintenance, and decommissioning of the Project. Cumulative projects would be subject to similar measures designed to avoid and minimize impacts to tribal cultural resources. There are no tribal cultural resources that have been identified in the Projects direct or indirect impacts area. Therefore, the Project will not contribute to the cumulative impacts to any tribal cultural resources. However, as discussed above, the Project in combination with past projects, other current projects, and probable future projects would contribute to adverse visual impacts to the PTNCL, particularly from character defining features within the PTNCL. Cumulative visual impacts to the PTNCL would remain significant, and the Project's incremental contribution would be cumulatively considerable.

Mitigation Measures for Cumulative Impacts

Mitigation Measures MM AES-1, MM AES-2, MM CUL-1 through MM CUL-6, MM TCR-1, and MM TCR-2, <u>MM AES-1, and MM AES-2</u> would be implemented to address potential cultural and tribal cultural resources impacts for the proposed Project. No additional mitigation is required.

Significance After Mitigation

<u>Cumulative visual impacts to the PTNCL would be significant and unavoidable, and the Project's incre-</u> <u>mental contribution to those visual impacts would be cumulatively considerable. All other cumulative</u> <u>cultural and tribal cultural resource impacts would be less than significant, and </u><u>T</u><u>the Project's incremental</u> contribution to impacts to cultural and tribal cultural resources-would not be cumulatively considerable.

3.6.7. Mitigation Measures and Applicant Proposed Measures

The following MMs were developed to substantially lessen the potentially significant effects to cultural resources that could result in the event of an unanticipated discovery cultural or archaeological resources or human remains. The following MMs were developed to comply with the COAs provided by the County of Riverside (ADM, 2023; RCCOA, 2023):

APM CULT-1 Native American Monitoring. The Applicant will enter into an agreement with interested culturally-affiliated and/or consulting tribe(s) to employ at least one Native American Monitor per archaeological monitor. A Native American monitor will be called immediately upon discovery of a cultural resource if a Native American monitor is not already present. In conjunction with the County- and BLM-approved archaeologist(s), the Native American Monitor will be invited to monitor all initial ground disturbing activities and excavation of each portion of the Project site including clearing, grubbing, tree removals, grading and trenching, as outlined in the Project's Cultural Resource Monitoring Plan (see Mitigation Measures [MMs] CUL-1 and TCR-1), and attend meeting(s) to discuss the significance of unanticipated find(s) and appropriate treatment of unanticipated resources. The Applicant will immediately alert interested culturally-affiliated and consulting tribes in the event of an unanticipated discovery. "Native American Monitor" means an individual who is presented as a representative of a tribal government for one of the culturally-affiliated or consulting tribes for the Easley Project and who has received specialized training approved by that tribal government to serve as a monitor.

MM CUL-1 Project Archaeologist and Cultural Resource Monitoring Plan. Prior to issuance of grading permits: The applicant/developer shall provide evidence to the County of Riverside Planning Department that a County certified professional archaeologist (Project Archaeologist) has been contracted to implement a Cultural Resource Monitoring. Program (CRMP). A Cultural Resource Monitoring Plan shall be developed that addresses the details of all activities and provides procedures that must be followed in order to reduce the impacts to cultural and historic resources to a level that is less than significant as well as address potential impacts to undiscovered buried archaeological resources associated with this project. A fully executed copy of the contract and a wet-signed copy of the Monitoring Plan shall be provided to the County Archaeologist to ensure compliance with this condition of approval.

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Working directly under the Project Archaeologist, an adequate number of qualified Archaeological Monitors shall be present to ensure that all earth moving activities are observed and shall be on-site during all grading activities for areas to be monitored including off-site improvements. Inspections will vary based on the rate of excavation, the materials excavated, and the presence and abundance of artifacts and features. The frequency and location of inspections will be determined by the Project Archaeologist.

- MM CUL-2 Develop and Implement Cultural Resources Environmental Awareness Training. Prior to issuance of a Notice to Proceed by the County and for the duration of ground disturbance (as defined in MM TCR-1), the Applicant shall provide Worker Environmental Awareness Program (WEAP) training to all workers prior to or on their first day of employment at the Project site. The training shall be prepared by the Cultural Resources Specialist (CRS), may be conducted by any member of the archaeological team, and may be presented in the form of an annotated and narrated digital slide show. Tribal representatives will be given the opportunity to participate in the WEAP training. The training shall be prepared in consultation with culturally affiliated Native Americans to incorporate the tribal know-ledge and perspectives from these Native American groups into the presentation. The CRS shall be available (by telephone or in person) to answer questions posed by employees. The training may be discontinued when ground disturbance is completed or suspended but must be resumed if ground disturbance resumes. Training shall include the following:
 - A discussion of applicable laws and penalties under the law
 - Samples or visuals of artifacts that might be found in the Project vicinity.
 - A brief review of the cultural sensitivity of the Project and the surrounding area

A discussion of what such artifacts may look like when partially buried, or wholly buried and then freshly exposed.

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- A discussion of what prehistoric and historical archaeological deposits look like at the surface and when exposed during construction, and the range of variation in the appearance of such deposits.
- Instruction that only the CRS, alternate CRS, and supervisory cultural resource field staff have the authority to halt ground disturbance in the area of a discovery to an extent sufficient to ensure that the resource is protected from further impacts, as determined by the CRS.
- Instruction that employees are to halt work on their own in the vicinity of a potential cultural resources discovery and shall contact their supervisor and the CRS or supervisory cultural resource field staff, and that redirection of work would be determined by the construction supervisor and the CRS.
- An informational brochure that identifies reporting procedures in the event of a discovery.
- An acknowledgment form signed by each worker indicating that they have received the training.
- A sticker that shall be placed on hard hats indicating that WEAP training has been completed.

This is a mandatory training, and all construction personnel must attend prior to beginning work on the Project site. A copy of the sign-in sheet shall be kept ensuring compliance with this measure. No ground disturbance shall occur prior to implementation of the WEAP training unless such activities are specifically approved by the County.

- **MM CUL-3** Archaeological Monitoring. A qualified lead archaeological monitor that meets the Secretary of the Interior's Professional Qualifications Standards (as defined in Title 36 Code of Federal Regulations Part 61), shall be present for initial grading activities in undisturbed soil. If additional archaeological monitors are needed, they do not need to have the same SOI qualifications but may work under the supervision of the lead archaeological monitor; in such cases the lead archaeological monitor must be on site. Any additional archaeological monitors will meet the qualifications of a bachelor's degree in anthropology/archaeology or completion of an archaeological field school and two or more years of archaeological project experience. Daily monitoring forms will be completed by the archaeological monitor(s) and the CRS will be responsible for retaining and/or editing them. The lead archaeological monitor will have the authority to increase or decrease the monitoring effort should the monitoring results indicate that a change is warranted.
- **MM CUL-4 Unanticipated Discovery**<u>Resources</u>. The developer/permit holder or any successor in interest shall comply with the following for the life of this permit. If during ground disturbance activities, unanticipated cultural resources* are discovered, the following procedures shall be followed:

All ground disturbance activities within 100 feet of the discovered cultural resource shall be halted and the Project archaeologist shall call the County Archaeologist immediately upon discovery of the cultural resource. A meeting shall be convened between the developer, the project archaeologist,** the Native American tribal representative, and the County Archaeologist to discuss the significance of the find. At the meeting with the aforementioned parties, a decision is to be made, with the concurrence of the County

Archaeologist, as to the appropriate treatment (documentation, recovery, avoidance, etc.) for the cultural resource. Resource evaluations shall be limited to nondestructive analysis.

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Further ground disturbance shall not resume within the area of the discovery until the appropriate treatment has been accomplished.

- A cultural resource site is defined, for this condition, as being a feature and/or three or more artifacts in close association with each other. Tribal Cultural Resources are also considered cultural resources.
- ** If not already employed by the project developer, a County approved archaeologist and a Native American Monitor from the consulting tribe(s) shall be employed by the project developer to assess the significance of the cultural resource, attend the meeting described above, and continue monitoring of all future site grading activities as necessary.
- MM CUL-5 Treatment of Human Remains. If human remains are found on this site, the developer/ permit holder or any successor in interest shall comply with State Health and Safety Code Section 7050.5. Pursuant to State Health and Safety Code Section 7050.5, if human remains are encountered, no further disturbance shall occur until the Riverside County Coroner has made the necessary findings as to origin. Further, pursuant to Public Resources Code Section 5097.98 (b), remains shall be left in place and free from disturbance until a final decision as to the treatment and their disposition has been made. If the Riverside County Coroner determines the remains to be Native American, the Native American Heritage Commission shall be contacted by the Coroner within the period specified by law (24 hours). Subsequently, the Native American Heritage Commission shall identify the "Most Likely Descendant". The Most Likely Descendant shall then make recommendations and engage in consultation with the property owner concerning the treatment of the remains as provided in Public Resources Code Section 5097.98.
- **MM CUL-6 Phase IV Monitoring Report.** Prior to Grading Permit Final Inspection, a Phase IV Cultural Resources Monitoring Report shall be submitted that complies with the Riverside County Planning Department's requirements for such reports for all ground disturbing activities associated with this grading permit. The report shall follow the County of Riverside Planning Department Cultural Resources (Archaeological) Investigations Standard Scopes of Work posted on the TLMA website. The report shall include results of any feature relocation or residue analysis required as well as evidence of the required cultural sensitivity training for the construction staff held during the required pre-grade meeting and evidence that any artifacts have been treated in accordance to procedures stipulated in the Cultural Resources Monitoring Plan.
- **MM TCR-1 Native American Monitor**. Prior to the issuance of grading permits, the developer/permit applicant shall enter into an agreement with the consulting tribe(s) for at least onea Native American Monitor–per archaeological monitor. The Native American Monitor(s) shall be on-site during all initial ground disturbing activities and excavation of each portion of the Project site including clearing, grubbing, tree removals, grading and trenching. In conjunction with the Archaeological Monitor(s), the Native American Monitor(s) shall have the authority to temporarily divert, redirect or halt the ground disturbance activities to allow identification, evaluation, and potential recovery of cultural resources. The developer/permit applicant shall submit a fully executed copy of the agreement to the County Archaeologist to ensure compliance with this condition of approval. Upon verifi-

cation, the Archaeologist shall clear this condition. This agreement shall not modify any condition of approval or mitigation measure.

MM TCR-2 Artifact Disposition. Prior to Grading Permit Final Inspection, In the event cultural resources are identified during ground disturbing activities, the landowner(s) shall relinquish ownership of all cultural resources that are unearthed on the Project property during any ground-disturbing activities, including previous investigations and/or Phase III data recovery, (with the exception of sacred items, burial goods, and Human Remains) and Provide evidence to the satisfaction of the County Archaeologist that all archaeological materials recovered during the archaeological investigations (this includes collections made during an earlier project, such as testing of archaeological sites that took place years ago), have been handled through one of the following methods.

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<u>Historic Resources</u> – all historic archaeological materials recovered during the archaeological investigations (this includes collections made during an earlier project, such as testing of archaeological sites that took place years ago), shall be curated at the Western Science Center, a Riverside County curation facility that meets State Resources Department Office of Historic Preservation Guidelines for the Curation of Archaeological Resources ensuring access and use pursuant to the Guidelines.

Prehistoric Resources- One of the following treatments shall be applied:

- (a) <u>Reburial of the resources on the Project property. The measures for reburial shall include, at least, the following: Measures to protect the reburial area from any future impacts. Reburial shall not occur until all required cataloguing, analysis and studies have been completed on the cultural resources, with an exception that sacred items, burial goods and Native American human remains are excluded. Any reburial processes shall be culturally appropriate. Listing of contents and location of the reburial shall be included in the confidential Phase IV Report. The Phase IV Report shall be filed with the County under a confidential cover and not subject to a Public Records Request.</u>
- (b) If reburial is not agreed upon by the Consulting Tribes, then the resources shall be curated at a culturally appropriate manner at the Western Science Center, a Riverside County curation facility that meets State Resources Department Office of Historic Preservation Guidelines for the Curation of Archaeological Resources ensuring access and use pursuant to the Guidelines. The collection and associated records shall be transferred, including title, and are to be accompanied by payment of the fees necessary for permanent curation. Evidence of curation in the form of a letter from the curation facility stating that subject archaeological materials have been received and that all fees have been paid, shall be provided by the landowner to the County. There shall be no destructive or invasive testing on sacred items, burial goods and Native American human remains.

A fully executed reburial agreement with the appropriate culturally affiliated Native American tribe(s) or band(s). This shall include measures and provisions to protect the reburial area from any future impacts. Reburial shall not occur until all cataloguing, analysis and special studies have been completed on the cultural resources. Details of contents and location of the reburial shall be included in the Phase IV Report.

Curation at a Riverside County Curation facility that meets federal standards per 36 CFR Part 79 and therefore will be professionally curated and made available to other archaeologists/researchers and tribal members for further study. The collection and associated records shall be transferred, including title, and are to be accompanied by payment of the fees necessary for permanent curation. Evidence shall be in the form of a letter from the curation facility identifying that archaeological materials have been received and that all fees have been paid.

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If more than one Native American Group is involved with the project and cannot come to a consensus as to the disposition of cultural resources, the landowner(s) shall then proceed with curation at the Western Science Center. The details of any disposition of artifacts shall be documented in the Phase IV report.

3.7. Energy

This section describes the environmental setting and regulatory framework with respect to energy consumption and generation for the proposed Project, including applicable plans, policies, and regulations. The analysis of energy includes evaluating the Project's use of energy during construction and operation, as well as evaluating the Project's consistency with state or local plans for renewable energy or energy efficiency. An impact analysis and comparison of project alternatives is included in Section 5.

7-9

3.7.1. Environmental Setting

The SCE transmission system into which the Easley Project would interconnect at the Red Bluff Substation serves approximately 15 million people in central, coastal, and southern California, excluding the City of Los Angeles and certain other cities (SCE, 2023). The southern California bulk electric power transmission system includes the high-voltage transmission facilities of SCE and San Diego Gas & Electric (SDG&E), with major interconnections to systems of Pacific Gas & Electric (PG&E), Los Angeles Department of Water and Power (LADWP), and Arizona Public Service (APS).

As of 2021, California generated 33,260 GWh of energy from solar projects, and 67,461 GWh of energy from renewable sources, which is 17.1% and 34.8% of California in-state generation, respectively (CEC, 2023).

3.7.2. Regulatory Framework

3.7.2.1. Federal Laws, Regulations, and Policies

DRECP Land Use Plan Amendment (LUPA) to the California Desert Conservation Area (CDCA). The DRECP is a collaboration between the BLM, California Energy Commission, California Department of Fish and Game, and U.S. Fish and Wildlife Service. The Record of Decision for the DRECP LUPA, Phase I of the larger collaboration, was signed in 2016 and is intended to facilitate the development of utility-scale renewable energy and transmission projects in the Mojave and Colorado deserts in California to reach federal and state energy targets while conserving sensitive species and habitats as well as cultural, scenic, and social resources. The LUPA applies to nearly 10.8 million acres of BLM-managed federal lands in seven California counties. The portion of the Project that would be located on BLM land is designated as a DFA.

3.7.2.2. State Laws, Regulations, and Policies

Assembly Bill 32. Assembly Bill (AB) 32, also known as the California Global Warming Solutions Act of 2006, required a reduction of greenhouse gas emissions to 1990 levels by 2020. (This target has been increased to a level 80 percent below 1990 levels by 2050.) The California Air Resources Board is required to adopt regulations to achieve the maximum technologically feasible and cost-effective greenhouse gas emission reductions. AB 32 is the first program in the U.S. to take a long-term approach to address climate change (CARB, 2018).

Energy Action Plan and Loading Order. California has mandated and implemented aggressive energy-use reduction programs for electricity and other resources. In 2003, California's first Energy Action Plan (EAP) established a high-level, coherent approach to meeting California's electricity and natural gas needs and set forth the "loading order" to address California's future energy needs. The "loading order" established that the State, in meeting its energy needs, would invest first in energy efficiency and demand-side resources, followed by renewable resources, and only then in clean conventional electricity supply (CPUC, 2008). Since that time, the California Public Utilities Commission (CPUC) and California Energy Commission (CEC) have overseen the plans, policies, and programs for prioritizing the preferred resources, including energy efficiency and renewable energy.

Senate Bill 100. On September 10, 2018, Senate Bill (SB) 100 was passed, making California the second state in the nation with a deadline to move to 100 percent zero-carbon electricity. SB 100 will accelerate California's renewable portfolio standard requirements of electricity utility providers to 50 percent renewable energy sources by 2025, 60 percent by 2030, and will require that the next 40 percent comes from zero-carbon sources of electricity by 2045 (California Legislative Information, 2018).

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Senate Bill 350. Also known as the Clean Energy and Pollution Reduction Act, establishes clean energy, clean air, and greenhouse gas reduction goals, including reducing greenhouse gas to 40 percent below 1990 levels by 2030 and to 80 percent below 1990 levels by 2050. Additionally, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This objective will increase the use of RPS eligible resources, including solar, wind, biomass, geothermal, and others (CEC, 2020).

State CEQA Guidelines. The California Natural Resources Agency adopted certain amendments to the State CEQA Guidelines effective in 2019, to change how CEQA Lead Agencies consider the environmental impacts of energy use. The State CEQA Guidelines, Section 15126.2(b) requires analysis of a project's energy use, in order to assure that energy implications are considered in project decisions. CEQA requires a discussion of the potential environmental effects of energy resources used by projects, with particular emphasis on avoiding or reducing the "wasteful, inefficient, and unnecessary consumption of energy" (see Pub. Resources Code § 21100(b)(3)).

3.7.2.3. Local Laws, Regulations, and Policies

Riverside County General Plan. The Riverside County General Plan (RCGP) was adopted on October 7, 2003. Through a series of resolutions, the Board of Supervisors adopted an update on December 8, 2015. The RCGP consists of a vision statement and the following elements: Land Use, Circulation, Multi-purpose Open Space, Safety, Noise, Housing, Air Quality, and Administration. The RCGP sets forth County land use policies and guidance for implementation (Riverside County, 2015, 2021). The RCGP is augmented by more detailed Area Plans covering specific selected areas within the County. Area Plans provide a clear and more focused opportunity to enhance community identity within the County and stimulate quality of life at the community level. The proposed Project is within the County's Desert Center Area Plan.

Policies at the General Plan and Area Plan levels implement the vision and goals of Riverside County. The County of Riverside Vision details the physical, environmental, and economic qualities that the County aspires to achieve. Using that Vision as the primary foundation, the RCGP establishes policies for development and conservation within the entire unincorporated County territory. The General Plan's policy goals that are potentially relevant to energy for the Project are provided below.

Land Use Element:

Policy LU 17.2 Permit and encourage, in an environmentally and fiscally responsible manner, the development of renewable energy resources and related infrastructure, including but not limited to, the development of solar power plants in the County of Riverside.

Multipurpose Open Space Element:

- Policy OS 11.1 Enforce the state Solar Shade Control Act, which promotes all feasible means of energy conservation and all feasible uses of alternative energy supply sources.
- Policy OS 11.2 Support and encourage voluntary efforts to provide active and passive solar access opportunities in new developments.
- Policy OS 11.3 Permit and encourage the use of passive solar devices and other state-of-the-art energy resources.

Policy OS 11.4 Encourage site-planning and building design that maximizes solar energy use/potential in future development applications.

7-9

As a solar energy generation project, the proposed Project would be consistent with each of these County policies.

3.7.3. Methodology for Analysis

All construction- and operation-related activities would involve use of energy-consuming equipment and processes. This analysis presents a qualitative discussion of the proposed Project's energy use for all phases and components. As set forth in the State CEQA Guidelines, Appendix F: Energy Conservation, the goal of conserving energy implies the wise and efficient use of energy including:

- Decreasing overall per capita energy consumption;
- Decreasing reliance on fossil fuels such as coal, natural gas, and oil; and
- Increasing reliance on renewable energy sources.

The energy impact analysis emphasizes avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy resources. State CEQA Guidelines, Section 15126.2(b) requires the analysis to focus on energy use that is caused by the project. If analysis of the project's energy use reveals that the project may result in significant environmental effects due to inefficient, wasteful, or unnecessary use of energy, then the analysis must identify ways to mitigate that energy use.

3.7.4. CEQA Significance Criteria

The criteria used to determine the significance of potential energy impacts are based on Appendix G of the State CEQA Guidelines. The proposed Project would result in a significant impact under CEQA related to energy if the Project would:

 Result in wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation (see Impact E-1); or

The following CEQA significance criterion from Appendix G is not included in the analysis and is not discussed further beyond this summary:

• Conflict with or obstruct a State or Local plan for renewable energy or energy efficiency.

The proposed Project would generate up to 400 MW of renewable energy and would assist the State in achieving its energy objectives under Senate Bill 100 and 350 and greenhouse gas emissions reduction goals under AB 32. The proposed Project would be located on private and BLM-administered land. The public lands within the Project solar application area include lands designated as DFA lands by the DRECP and are targeted for renewable energy development. The proposed Project would be consistent with federal goals for the construction of renewable energy infrastructure and generation of renewable energy and would make the best use of public lands to generate, store, and transmit affordable renewable solar electricity for distribution to the State. Additionally, the proposed Project would be consistent with applicable policy goals relevant to energy in the Riverside County General Plan Land Use and Multipurpose Open Space element. Therefore, the proposed Project would directly support federal, state, and local plans for renewable energy development. Beneficial impacts related to state or local plans for renewable energy efficiency would occur, and the Project would not conflict with or obstruct a state or local plan for renewable energy.

3.7.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to energy. Public concerns related to energy involved concerns about the energy required to cool the BESS facility, and how much energy would be taken from the local grid, and the heat in the region affecting battery efficiency. Scoping comments also expressed concerns about meeting renewable energy goals, which are addressed in the analysis below and incorporated into the Project Objectives (see Section 1.3).

7-9

Project decommissioning impacts would be the same as those described under Project construction.

Impact E-1. Would the Project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during Project construction or operation?

LESS THAN SIGNIFICANT. Project construction and decommissioning are each anticipated to last approximately 20 months. During construction, motorized equipment and vehicles would consume energy resources in the form of fossil fuels (i.e., diesel fuel and gasoline). Additionally, construction would require the manufacture and delivery of new equipment and materials, which would also require energy use.

Although construction activities would consume fossil fuels, consumption of these resources would be temporary and would cease upon the completion of construction. The fuel consumed during construction of the proposed Project would be typical of similar solar projects. <u>Statewide requirements for minimizing emis-</u> <u>sions from off-road equipment fleets and limitations on idling</u>. <u>Mitigation Measure AQ-2 (Control On Site</u> <u>Off-Road Equipment Emissions)</u> requires the proposed Project to minimize unnecessary use of construction equipment so that activity levels are not wasteful; for example, by requiring equipment to be properly maintained and limiting construction equipment idling.

Based on these considerations, construction of the proposed Project would not result in significant environmental impacts due to wasteful, inefficient, or unnecessary consumption of energy resources. Construction impacts would be less than significant.

Once operational, the Project would require relatively minor amounts of maintenance activity (see Section 2.7, Operation and Maintenance Activities), as the solar modules and BESS would automatically generate and store power from solar energy. During operations, up to 10 permanent staff could perform daily visual inspections, maintenance, and minor repairs. A minimal workforce and maintenance activities are anticipated. Operation and maintenance would result in minimal energy use due to the small workforce needed and the limited number of vehicles required to commute to the site and transport materials.

The proposed Project would generate renewable energy, reducing the use of fossil fuel for electrical generation by conventional power plants. As discussed in Section 3.9, Greenhouse Gas Emissions, the proposed Project would produce up to about 1.4 million megawatt-hours (MWh) of electricity each year for delivery to California's end-users. The avoided emissions in the year 2030 would be approximately 527,800 MT of CO₂ per year.

Although the battery storage component would require the use of some energy, the output of the storage component would occur at hours of peak demand, which would have a beneficial effect of shifting the types of fuel-burning generating units on the grid that could be displaced. The energy generated by the proposed Project would be many times greater than the amount used. As such, operation of the proposed Project would result in a less-than-significant impact with respect to the inefficient consumption of energy.

Decommissioning impacts are anticipated to be similar to the construction impacts and would also use energy after the end of the Project's useful life, per an agency-approved Closure and Decommissioning Plan; however, the specific types and amount of energy to be used during decommissioning are uncertain. No mitigation would be necessary. The proposed Project would not result in significant environmental impacts due to wasteful, inefficient, or unnecessary consumption of energy resources.

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Mitigation Measures for Impact E-1

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.7.6. Cumulative Impacts

Geographic Scope

The geographic scope of the cumulative analysis for energy consumption would be eastern Riverside County which includes all the cumulative projects identified in Tables 3.1-1 and 3.1-2. This geographic area was selected because all cumulative projects have the potential to utilize energy resources temporarily or permanently or have the potential to conflict with plans and policies related to increasing renewable energy and energy efficiency.

Cumulative Impact Analysis

As discussed above, construction of the proposed Project would not result in significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources (Impact E-1). Energy use during construction would be reduced by best management practices and adherence to <u>emissions</u> <u>control requirements to the proposed Mitigation Measure AQ-2 which would</u>-minimize construction equipment activity, limit the idling of equipment, and encourage carpooling. The use of fossil fuel by operational worker commutes and use of vehicles and equipment during maintenance is not considered to be wasteful, inefficient, or unnecessary. This energy use would contribute to the construction and operation of a solar facility that would increase the availability of renewable energy, thus reducing the use of fossil fuel for electrical generation by conventional power plants. Most of the cumulative projects identified in Tables 3.1-1 and 3.1-2 are renewable energy facilities and the remainder are energy infrastructure, such as a storage project, line capacity increase, or transmission lines and substations. If adopted, the proposed expansion of Joshua Tree National Park and creation of Chuckwalla National Monument would re-designate existing federal lands in the Project vicinity but would not create physical changes in the environment that would contribute to cumulative impacts.

Although construction activities associated with cumulative projects would require the use of fossil fuels, it is assumed each project would initiate best management practices and comply with applicable policies and regulations as part of project approval to reduce wasteful, inefficient, or unnecessary use of energy resources. Furthermore, most of the cumulative projects would also contribute renewable energy to the California electrical transmission system, reducing the State's overall reliance on fossil fuels. <u>Cumulative impacts would be less than significant, and Fthe proposed Project would not contribute to cumulatively considerable energy impacts and would make a beneficial cumulative contribution to supporting federal, state, and local plans for renewable energy development.</u>

Mitigation Measures for Cumulative Impacts

No mitigation would be required.

Significance After Mitigation

<u>Cumulative impacts would be less than significant.</u> The Project's incremental contribution to impacts to energy would not be cumulatively considerable.

3.7.7. Mitigation Measures

No mitigation would be required.

3.8. Geology, Soils and Mineral Resources

This section describes the regional and local geology, soil conditions, and mineral resources, and the regulatory framework for these resources. CEQA does not generally consider the impact of the existing environment on the Project; however, this section identifies seismic hazards that could potentially affect structures associated with the Project to assist decision-makers in addressing regulatory concerns. The area relevant to the analysis of geology, soils, geologic hazards, and mineral resources is the physical footprint of Project construction, operation and maintenance, and decommissioning activities. The study area for faulting and seismic hazards includes the larger southern California region, because distant faults can produce ground shaking and secondary seismic hazards in the Desert Center area. <u>An impact analysis and comparison of project alternatives is included in Section 5.</u>

3.8.1. Environmental Setting

3.8.1.1. Geologic Setting and Physiography

The Project site's elevation ranges from approximately 550 feet above mean sea level (amsl) near the easternmost boundary to approximately 745 feet amsl near the southwestern boundary corner (Google Earth, 2023). The Project site is located in the Chuckwalla Valley near the northeast corner of the Colorado Desert geomorphic province. The Colorado Desert is bounded to the east by the Colorado River, to the south by the Mexican border, and to the west by the Peninsular Ranges. The northern border extends approximately along the southern edge of the eastern Transverse Ranges and the San Bernardino–Riverside County line (Norris and Webb, 1976). Except for a narrow band along the Colorado River and northwestern Imperial County, drainage in the Colorado Desert is internal. In eastern Riverside County, much of the drainage ends in the Chuckwalla Valley.

The Chuckwalla Valley is situated between the Chuckwalla Mountains to the south and the Palen and Coxcomb Mountains to the north. Alluvial divides reaching up to 1,500 feet amsl serve as boundaries between the mountain ranges to the north and west of the valley. The valley is dominated by up to 1,200 feet of sand, gravel, and clay derived from the surrounding highlands, and contains numerous dry lake beds that are separated by sand dunes. The surrounding mountains reach 2,000 to 4,000 feet amsl and the lowest point of the valley is Ford Dry Lake, located southeast of the Project at an elevation of approximately 360 feet amsl. Most of the area consists of broad alluvial fans characterized by bar and swale topography interrupted by larger drainages which can be more heavily vegetated. Sand dunes occur in some regions of the Chuckwalla Valley.

3.8.1.2. Geology

The site is situated on the western end of the Chuckwalla Valley and receives outwash from the Chuckwalla Mountains to the south. The geology of the area is dominated by alluvial fans and basin deposits. Geologic mapping of the area is provided on the Eolian System Map of the East Riverside Area (CGS, 2014) and Geologic Map of California: Salton Sea Sheet (Jennings, 1967) which indicates the Project site is underlain by Quaternary alluvium ranging from Holocene (less than 11,700 years before present [BP]) to latest Pleistocene (11,700 to 126,0000 BP) in age. The California Geologic Survey (CGS) and Jennings units mapped in the Project area are somewhat equivalent, except for the scale and detail of mapping, and are discussed together. The units underlying the Project site are described below (CGS, 2014; Jennings, 1967).

Alluvial Fan Deposits (Qyf)/Alluvium (Qal). Alluvial fan deposits of Holocene to latest Pleistocene age consisting of unconsolidated to slightly consolidated, poorly to moderately sorted, fine to coarse grained sand and gravel. The gravel includes pebbles, cobbles, and boulders (CGS, 2014). Jennings (1967) describes this unit as alluvial sand, silt, clay, and gravel, locally including some older alluvium. This unit is broadly

distributed throughout the Chuckwalla Valley and locally contains active alluvial fans and washes that serve as sources of wind-blown (eolian) sediment. Modification of surface drainage by the construction of training dikes for the control of storm water runoff creates downstream shadow effects, rendering parts of these alluvial fans abandoned (CGS, 2014). This unit underlies most of the Project site and Project structures including solar arrays, laydown areas, access roads, fences, the BESS, and the substation would be located on this unit.

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Alluvial Wash Deposits (Qw)/Alluvium (Qal). Alluvial wash deposits consisting of unconsolidated fine - to coarse-grained sand and sandy gravel with subordinate fine sand and silt and exhibits bar and swale morphology (CGS, 2014). As a channel meanders and erodes laterally, a succession of bars with intervening swales forms, called bar and swale topography. Bars in a river are elevated regions of sediment (such as sand or gravel) that have been deposited by the flow and swales are the intervening low-flow channels. This unit is included in the area mapped by Jennings (1967) as alluvium and is described as alluvial sand, silt, clay, and gravel, locally including some older alluvium. This unit is found underlying a small area of the northern portion of Project site near the northernmost boundary. Proposed solar arrays fence, proposed access roads, and a proposed laydown area would be located on areas within the Project underlain by this unit.

Older Alluvium (Qoa)/Pleistocene Nonmarine Sedimentary Deposits (Qc/Qco). Older alluvial deposits of Pleistocene age are comprised of undifferentiated alluvial fan, alluvial valley, and alluvial terrace deposits. In general, these deposits are capped by a gravel lag or desert pavement with moderately to strongly developed desert varnish (CGS, 2014). Jennings (1967) describes this unit as mostly dissected older alluvium and fanglomerate with well-developed desert pavement and desert varnish (Qc), with areas of extremely dissected older folded or uplifted fan deposits (Qco). This unit is found crossing portions of the proposed gen-tie line within the Oberon Project boundaries where it is consolidated with the Oberon Project gen-tie line right-of-way (ROW).

3.8.1.3. Slope Stability

Important factors that affect the slope stability of an area include the steepness of the slope, the relative strength of the underlying rock material, and the thickness and cohesion of the overlying colluvium. The steeper the slope and/or the less strong the rock, the more likely the area is susceptible to landslides. The steeper the slope and the thicker the colluvium, the more likely the area is susceptible to debris flows. Another indication of unstable slopes is the presence of old or recent landslides or debris flows. The Project site is relatively flat with a slight descending slope to the northeast. The Riverside County General Plan shows the Project area as having no potential for seismically induced slope instability and as having slope grades of less than 15 percent (Riverside County, 2021a). There is no potential for slope failure at the Project site.

3.8.1.4. Soils

The soils underlying the site reflect the underlying rock type, the extent of weathering of the rock, the degree of slope, and the degree of human modification. Potential hazards/impacts from soils include erosion, shrink-swell (expansive soils), and corrosion. The National Resource Conservation Service (NRCS) Soil Survey Geographic (SSURGO) Soil Web Survey was reviewed to identify soil units and characteristics underlying the Project; however, no SSURGO soil data were available for the area. Therefore, national-level State Soil Geographic (STATSGO) soil data for California were reviewed (NRCS, 2016). The STATSGO data indicated that the Project area is primarily underlain by the Vaiva-Quilotosa-Hyder-Cipriano-Cherioni association, with a small amount of the Rositas-Dune Land-Carsitas association underlying portions of the eastern most parcels for the Project both north and south of Highway 177.

The Vaiva-Quilotosa-Hyder-Cipriano-Cherioni soil association typically consists of very shallow to shallow, somewhat excessively drained, gravelly to sandy loam (loam consists of approximately equal amount of sand, silt, and clay) formed in alluvium over shallow bedrock or hardpan (NRCS, 2023). The Vaiva-Quilotosa-Hyder-Cipriano-Cherioni soils are typically non-plastic to slightly plastic (plasticity, the ability of a soil to be deformed and retain that deformation, is exhibited by a soil due to the presence of clay minerals) and moderately alkaline (NRCS, 2023).

The Rositas-Dune Land-Carsitas soil association consists of very deep, somewhat excessively drained soils formed in sandy eolian material on dunes and sand sheets or alluvium on alluvial fans, fan aprons, valley fills, dissected remnants of alluvial fans and in drainageways (NRCS, 2023). Dune Land is a miscellaneous area with little to no identifiable soil and consists of unstable sand in ridges and troughs that shift with the wind (USDA, 2018). The Rositas-Dune Land-Carsitas soils are typically non-plastic and moderately alkaline (NRCS, 2023).

The preliminary geotechnical investigation for the Project site conducted by Terracon Consultants, Inc. (Terracon) (2024) indicate that the soil materials consist of medium dense to dense sand with varying amounts of silt, clay and gravel, with local layers of loose silty sand and hard lean clay. Limited laboratory testing of surface and near surface sandy materials indicates that they are non-plastic (non-expansive). Geotechnical evaluations conducted just east of the Project for the Athos Renewable Energy Project (Athos) by Terracon Consultants, Inc. (2018) indicates that soil materials in the Project vicinity generally consist of sand with variable amounts of silt, gravel, and cobbles, may be moderately corrosive, and are not expansive.

Potential soil erosion hazards vary depending on the use, conditions, and textures of the soils. Soils containing high percentages of fine sands and silt and that are low in density, are generally the most erodible. As the clay and organic matter content of soils increases, the potential for erosion decreases. Clays act as a binder to soil particles, thus reducing the potential for erosion. The soils in the Project area are predominantly sandy in character. The County of Riverside General Plan Safety Element (2019) maps the Project area as having moderate to high wind erosion susceptibility.

A total of approximately 66 acres of isolated areas of desert pavement were identified in western portions of the Project site within and near areas of desert dry wash woodland during the biological survey for the Project, with about 44 acres of desert pavement underlying Project disturbance areas. In the Project area, desert pavement is sparsely vegetated with an intermittent layer of cryptogamic crust (Ironwood, 2023, Appendix G). Along the gen-tie ROW, only small area of previously identified desert pavement, approximately 8 acres, were identified. The areas of desert pavement along the gen-tie ROW were previously identified during the Oberon Project and coincide with the area where the Easley gen-tie ROW is consolidated with the Oberon Project gen-tie line ROW.

Desert pavement is a desert surface with closely packed, interlocking angular or rounded rock fragments of pebble and cobble size. Desert pavement forms where wind action and sheetwash have removed all smaller particles or where rock fragments have migrated upward through sediments to the surface. This tightly packed gravel armors the surface and prohibits fine soil particles from being entrained by wind (Potter, 2016) and protects the finer grained underlying sediment from further erosion.

Older, well-established desert pavement typically exhibits varnish, an oxidized surface that occurs with age and fluvial inactivity. Desert varnish is the thin red to black coating found on exposed rock surfaces in arid regions. Varnish is composed of clay minerals, oxides, and hydroxides of manganese and/or iron. Desert pavement is sparsely vegetated with an intermittent layer of cryptogamic crust. The ground surface is sandy and gravelly mixed alluvium with various rocks and gravel. Desert pavement is often interwoven between areas of creosote bush scrub and desert dry wash woodland where it occurs on the Project site, and primarily occurs on the western portion of the Project site and crossing small portions of the gen-tie line.

Desert varnish was not mapped during Project surveys; however, it is common on exposed rock faces of desert pavement. Both desert pavement and desert varnish take thousands of years to form.

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The significance of desert pavement is its long-term stability. When desert pavement is disturbed and broken up, the very fine particulate matter immediately beneath the stable pavement that has accumulated by infiltration through the pavement over centuries becomes exposed to air currents. The result is high inputs of fugitive dust into the air and subsequent soil loss on site. If left undisturbed, desert pavement restricts the infiltration of water into the underlying soils and allows desert runoff to playas near Desert Center.

Desert pavement is sparsely vegetated and can also include cryptogamic crusts (biologic soils crusts). Desert pavement generally overlies older alluvium formations (BLM, 2015); the alluvium in the Project area ranges in age from Holocene to late, therefore large amounts of desert pavement are not present and where present are most likely in areas of older, less disturbed, and more stable alluvium. Some of the surface soils in the area have been disturbed by past activities, including agricultural uses, grading of roads, and use as a World War II maneuver area (see Section 3.10, Hazards and Hazardous Materials), that have likely disrupted and significantly reduced the amount of desert pavement in the area.

3.8.1.5. Seismicity

The Project site is in seismically active Southern California. The type and magnitude of seismic hazards affecting the site is dependent on the distance to active faults, the intensity and the magnitude of a seismic event, distance from the event, and geologic conditions underlying and surrounding the area.

Fault Rupture

Fault rupture is the surface displacement that occurs when movement on a fault deep within the earth breaks through to the surface. The site is not crossed by any known active faults (USGS, 2023a) and is not located within an Alquist-Priolo Earthquake Fault Zone as shown on the Earthquake Zones of Required Investigation website (CGS, 2023). The closest known Quaternary faults to the site are the Blue Cut fault, located approximately 10.3 miles north of the Project; the Aztec Mine wash fault, approximately 12.6 miles south of the Project; and the Salton Creek fault, approximately 14 miles south of the Project (USGS, 2023a). All three are considered undifferentiated Quaternary in age and therefore potentially active, with the Blue Cut fault considered as a seismic source in the USGS National Seismic Hazard Model (NSHM) (USGS, 2023a). The Blue Cut fault is within a County of Riverside Earthquake Fault Study Zone on Figure S 2 of the Riverside County General Plan Safety Element (2019).

Ground Shaking

The area is subject to ground shaking associated with earthquakes on faults of the San Andreas fault system. Active faults of the San Andreas system are predominantly strike-slip faults accommodating translational movement. Several factors influence how ground motion interacts with structures, making the hazard of ground shaking hard to predict. What is normally felt during an earthquake are the vibrations caused by the seismic waves propagating through the earth's crust. These waves can vibrate in any direction at many different frequencies, depending on the frequency content of the earthquake, its rupture mechanism, the distance from the seismic epicenter, and the path and material through which the waves are propagating. Ground shaking due to nearby and distant earthquakes should be anticipated during the life of the Project. The seismic evaluation conducted for the adjacent Athos-Easley Project by Terracon (20182024) indicates moderate to strong ground shaking should be anticipated.

Liquefaction

The Riverside County General Plan Safety Element (2019) maps the Project area in a moderate zone of liquefaction susceptibility. The area has not been mapped by the California Geologic Survey (CGS) Seismic Hazards Program. Liquefaction occurs when loose, water-saturated sediments lose strength and fail during strong ground shaking; it is further defined by the CGS as the transformation of granular material from a solid state into a liquefied state as a consequence of increased pore-water pressure. Liquefaction usually occurs in areas with young, saturated unconsolidated sediments with groundwater levels of 50 feet or less. Excess water pressure is vented upward through fissures and soil cracks and can also result in a water-soil slurry flowing onto the ground surface. Liquefaction-related effects include loss of bearing strength, ground oscillations, lateral spreading, and flow failures or slumping (Riverside County, 2021a). The preliminary geotechnical evaluation for the proposed Project concludes that based on the subsurface conditions encountered and the anticipated depth to groundwater, liquefaction hazard at the site is considered to be low, and other geologic hazards related to liquefaction, such as lateral spreading, are also considered to be low (Terracon, 2024). A geotechnical evaluation in the Project vicinity for the adjacent Athos Project (Terracon, 2018) estimated groundwater depth to be greater than 70 feet below ground surface in the area and concluded that potential for liquefaction is low due to anticipated depth of groundwater and subsurface conditions. The geotechnical evaluation for the Project (Terracon, 2024) conducted a seismic settlement analysis using an historic high groundwater depth of greater than 50 feet, as well as soil data from a Project boring, and determined that seismically induced settlement is considered to be negligible.

3.8.1.6. Subsidence

Land subsidence is a gradual settling or sudden sinking of the ground surface due to removal or displacement of subsurface earth materials. The principal causes include compaction associated with withdrawal of fluids such as groundwater or petroleum, compaction of organic soils, underground mining, or natural compaction or collapse, such as with sinkholes or thawing permafrost. In California, subsidence is typically caused by human withdrawal of fluids. Subsidence can also occur through earthquake induced ground failure, as well as the settling and compaction of unconsolidated sediments during liquefaction. The compaction of susceptible aquifer systems caused by excessive groundwater pumping is the single largest cause of subsidence in California. Fine-grained sediments (clays and silts) within an aquifer system are the main culprits in land subsidence due to groundwater pumping; when groundwater levels decline to historically low levels these fine sediments are susceptible to becoming compressed and having less space to store water. The County Safety Element maps the Project area as susceptible to subsidence; however, no areas with documented subsidence are mapped underlying the Project area (Riverside County, 2019). Additionally, no subsidence areas are mapped by the USGS as underlying the site (USGS, 2023b).

3.8.1.7. Sand Transport/Migration

Sand dune transport systems form where winds are consistently strong enough to lift and push fine sand grains across the dune surface, especially where there is little or no vegetation to stabilize the loose soil. Sandy alluvium (unconsolidated sediment deposited by flowing water in streams or sheets) in dry washes and alluvial fans are examples of sources for these materials, and strong winds generally transport the sands to areas with topographic irregularity, such as at the mountain front, where decreasing wind energy deposits sand. Active washes are large contributors of eolian sands in desert landscapes, transporting sand from upslope to the valley axis where most dune systems exist (areas of strongest prevailing winds). Except in high-force winds, wind does not typically suspend and transport sand high into the air (BLM, 2015).

The Chuckwalla Valley is a region of active aeolian sand migration and deposition. Aeolian processes play a major role in the creation and establishment of sand dune formations and habitat in the Chuckwalla Valley. A study by Kenney (2017) of the sand corridor throughout the Chuckwalla Valley concluded that the sand transport system relies on local sand systems, rather than systems that cross the entire Chuckwalla Valley. Regional eolian system studies in the valley indicate that the prevailing wind responsible for sand transport is from the northwest toward the southeast and locally controlled by topography (e.g., mountain ranges) (BLM, 2018). The dominant sand migration direction within the corridors is toward the east and south. Sand delivered from upwind is deposited, replenishing sand that has been lost downwind.

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No active surface aeolian (wind-driven) sand deposits are present within the Project site; however, fluvial sand transport across the site likely carries sand downslope toward Big Wash and Pinto Wash, where fine sands may be taken up into the aeolian sand transport system toward the Palen Dunes. Eolian deposits mapped outside the sand migration zones are present outside of the Project boundary to the northeast.

At its closest point, the Project site is more than a mile southwest of the southeast-trending Palen Lake sand migration zone (SMZ); the Palen Lake SMZ is part of the Palen Sand Dune System. The Project site is not located within any identified sand transport or migration zone. Active washes near the Palen Lake SMZ are important for eolian systems as a sand source, sand transport, and stabilizing moisture. Several minor washes pass through the Project site that may aid in the transport of eolian material; however, they have not been mapped as eolian sand sources (Kenney, 2017). A portion of Big Wash, a drainage traversing east to southeast from the Eagle Mountains, located just north and northeast of the Project site is mapped by Kenney (2017) as an eolian sand source and provides stabilizing moisture.

3.8.1.8. Mineral Resources

The Project site is mapped within Mineral Resource Zone (MRZ) 4 (CGS, 1994; Riverside County, 2015), which is identified as "areas of no known mineral occurrences where geologic information does not rule out either the presence or absence of industrial mineral resources." Therefore, no economically viable mineral deposits are known to be present at the site, and no mines are known to have existed within the Project boundaries. The California Department of Conservation Division of Mine Reclamation Mines Online website (CDOC, 2023) indicates that no mines are located within the Project area. Several gravel pits are mapped west of the Project site and two former borrow pits are mapped southeast of the Project site on USGS topographic maps (USGS, 1986 and 1987) in areas mapped as alluvium; however, these pits likely are no longer active as they are not mapped on the Mines Online website nor is there any visible evidence of active mining of the sites on aerial photographs (CDOC, 2023; Google Earth, 2023).

The U.S. Bureau of Land Management (BLM) categorizes mineral resources on BLM-administered land as locatable, leasable, or mineral materials. Locatable minerals include metallic minerals such as gold, silver, copper, lead, zinc, and uranium; nonmetallic minerals such as alunite, asbestos, barite, bentonite, gypsum, geodes/gem minerals, mica, and zeolite mica; and uncommon varieties of stone (BLM, 2015). Leasable minerals include fluid minerals such as oil, gas, coalbed methane, carbon dioxide, and geothermal resources, as well as solid minerals such as coal, sodium, and potash. Mineral materials include construction materials such as sand, gravel, cinders, decorative rock, and building stone. There are no BLM mapped locatable, leasable, or mineral material areas in the Project area (BLM, 2015). According to the BLM Mineral and Land Records System (MLRS) and the BLM Land and Records System (LR2000), there are no active mining claims, mineral use authorizations, or mineral leases within the Project site or surrounding area (BLM, 2023a and 2023b).

The presence of alluvial materials at and near the Project site means that the property could potentially be accessed and developed as a source of sand and gravel materials, collectively referred to as aggregate resources.

3.8.2. Regulatory Framework

3.8.2.1. Federal Laws, Regulations, and Policies

International Building Code (IBC). Published by the International Code Council (ICC), the purpose of the IBC is to establish minimum structural requirements to provide a reasonable level of safety, public health and general welfare through structural strength, and safety to life and property from fire and other hazards attributed to the built environment. The provisions of the IBC apply to the construction, alteration, relocation, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal, and demolition of buildings or structures, as well as any appurtenances connected to applicable buildings or structures. The IBC also incorporates the requirements and regulations set forth in several other ICC codes including the International Energy Conservation Code, the International Existing Building Code, the International Fire Code, and the International Fuel Gas Code. The IBC is in use or adopted in all 50 states of the U.S. and is updated every 3 years to ensure that new construction methods and technologies are incorporated into existing codes. The IBC has replaced the Uniform Building Code (UBC) as the basis for the California Building Code (CBC).

Clean Water Act. The Clean Water Act (CWA) (33 U.S. Code § 1251 et seq.), formerly the Federal Water Pollution Control Act of 1972, was enacted with the intent of restoring and maintaining the chemical, physical, and biological integrity of waters of the U.S. The CWA requires states to set standards to protect, maintain, and restore water quality through the regulation of point-source and certain non-point-source discharges to surface water. Section 402 of the CWA establishes the National Pollutant Discharge Elimination System (NPDES) permit program to regulate point-source discharges of pollutants into waters of the U.S. Discharges or construction activities that disturb 1 or more acres are regulated under the NPDES stormwater program and are required to obtain coverage under a NPDES Construction General Permit. The Construction General Permit establishes limits and other requirements, such as the implementation of a Storm Water Pollution Prevention Plan (SWPPP), which would further specify best management practices (BMPs) and other measures designed to avoid or eliminate pollution discharges in waters of the U.S. The NPDES Program is a federal program which has been delegated to the State of California for implementation through the State Water Resources Control Board (SWRCB) and the nine Regional Water Quality Control Boards. Although the Project would not be required to obtain a NPDES permit as there are no waters of the U.S. on or near the Project site, the Applicant has committed to preparing at SWPPP or SWPPP-equivalent document for the Project.

Institute of Electrical and Electronics Engineers. The Institute of Electrical and Electronics Engineers (IEEE) 693 "Recommended Practices for Seismic Design of Substations" was developed by the Substations Committee of the IEEE Power Engineering Society and approved by the American National Standards Institute and the IEEE SA Standards Board. This document provides seismic design recommendations for substations and equipment consisting of seismic criteria, gualification methods and levels, structural capacities, performance requirements for equipment operation, installation methods, and documentation. This recommended practice emphasizes the qualification of electrical equipment. IEEE 693 is intended to establish standard methods of providing and validating the seismic withstand capability of electrical substation equipment. It provides detailed test and analysis methods for each type of major equipment or component found in electrical substations. This recommended practice is intended to assist the substation user or operator in providing substation equipment that will have a high probability of withstanding seismic events to predefined ground acceleration levels. It establishes standard methods of verifying seismic withstand capability, which gives the substation designer the ability to select equipment from various manufacturers, knowing that the seismic withstand rating of each manufacturer's equipment is an equivalent measure. Although most damaging seismic activity occurs in limited areas, many additional areas could experience an earthquake with forces capable of causing great damage. This recommended practice should be used in all areas that may experience earthquakes.

California Desert Conservation Area Plan. The BLM manages the portions of the Project area on BLMadministered land under the California Desert Conservation Area (CDCA) Plan, As Amended. With respect to mineral resources, the CDCA Plan aims to maintain the availability of mineral resources on public lands for exploration and development. The DRECP LUPA amended the CDCA Plan with a focus on renewable energy and conservation. Regarding minerals, the DRECP does not amend the CDCA Plan goals, it adds the goal to support the national need for a reliable and sustainable domestic mineral and energy supply and to support responsible mining and energy development operations necessary for California's infrastructure, commerce, and economic well-being.

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3.8.2.2. State Laws, Regulations, and Policies

California Building Code (CBC). The CBC is promulgated under the California Code of Regulations, Title 24, Parts 1 through 12 (also known as the California Building Standards Code) and is administered by the California Building Standards Commission. The Project is subject to the applicable sections of the CBC. The Riverside County Building Department is responsible for implementing the CBC for the Project. The Project would comply with applicable seismic design and construction criteria of the most recent CBC or federal standards.

The earthquake design requirements consider the occupancy category of the structure, site class, soil classifications, and various seismic coefficients which are used to determine a Seismic Design Category (SDC) for a project as described in Chapter 16 of the CBC. The SDC is a classification system that combines the occupancy categories with the level of expected ground motions at the site and ranges from SDC A (very small seismic vulnerability) to SDC E (very high seismic vulnerability and near a major fault). For Seismic Design Categories D, E, and F, Chapter 18 requires analysis of slope instability, liquefaction, and surface rupture attributable to faulting or lateral spreading, plus an evaluation of lateral pressures on basement and retaining walls, liquefaction and soil strength loss, and lateral movement or reduction in foundation soil-bearing capacity. It also addresses mitigation measures to be considered in structural design, which may include ground stabilization, selecting appropriate foundation type and depths, selecting appropriate structural systems to accommodate anticipated displacements, or any combination of these measures.

California Fire Code (CFC). Chapter 12, Section 1206 of the 2019 CFC provides provisions related to the installation, operation, and maintenance of Electrical Energy Storage Systems. Subsection 1206.2.4 – Seismic and Structural Design states that "Stationary storage battery systems shall comply with the seismic design requirements in Chapter 16 of the California Building Code and shall not exceed the floor-loading limitation of the building."

Alquist-Priolo Earthquake Fault Zoning Act. The Alquist-Priolo Earthquake Fault Zoning Act of 1972, Public Resources Code Sections 2621–2630 (formerly the Special Studies Zoning Act) regulates development and construction of buildings intended for human occupancy to avoid the hazard of surface fault rupture. While this Act does not specifically regulate components not intended for human occupancy; it does help define areas where fault rupture, and thus related damage, is most likely to occur. This Act groups faults into categories of active, potentially active, and inactive. Historic and Holocene age faults are considered active, Late Quaternary and Quaternary age faults are considered potentially active, and pre-Quaternary age faults are considered inactive. These classifications are qualified by the conditions that a fault must be shown to be "sufficiently active" and "well defined" by detailed site-specific geologic explorations to determine whether building setbacks should be established. Cities and counties affected by the zones must regulate certain development "projects" within the zones. They must withhold development permits for sites within the zones until geologic investigations demonstrate that the sites are not threatened by surface displacement from future faulting.

Seismic Hazards Mapping Act. The Seismic Hazards Mapping Act (the Act) of 1990 (Pub. Resources Code, Chapter 7.8, Division 2, Sections 2690–2699.) is to reduce the threat to public health and safety and to minimize the loss of life and property by identifying and mitigating seismic hazards. The Act directs the California Department of Conservation, Division of Mines and Geology [now the California Geological Survey (CGS)] to delineate Seismic Hazard Zones or Zones of Required Investigation. Zones of Required Investigation referred to as "Seismic Hazard Zones" in CCR Section 3722, are areas shown on Seismic Hazard Zone Maps where site investigations are required to determine the need for mitigation of potential liquefaction and/or earthquake-induced landslide ground displacements. A geotechnical investigation of the site must be conducted, and appropriate mitigation measures incorporated into the project design before development permits may be granted. Cities, counties, and State agencies are directed to use seismic hazard zone maps developed by CGS in their land-use planning and permitting processes. The Act requires that site-specific geotechnical investigations be performed prior to permitting most urban development projects within seismic hazard zones. However, to date, seismic hazard mapping has not been completed by the State Geologist for the Project area.

Surface Mining and Reclamation Act. The Surface Mining and Reclamation Act (SMARA) of 1975 (Pub. Resources Code § 2710 et seq.) mandated the initiation by the State Geologist of mineral land classification to help identify and protect mineral resources in areas within the state subject to irreversible land uses that would preclude mineral extraction. The Act also allowed the State Mining and Geology Board to designate lands containing mineral deposits of regional or statewide significance. Mineral lands are mapped according to jurisdictional boundaries (i.e., counties), mapping all mineral commodities at one time in the area, using the California Mineral Land Classification System. Classification into Mineral Resource Zones is completed by the State Geologist in accordance with the State Mining and Geology Board's priority list. Classification of these areas is based on geologic and economic factors without regard to existing land use and land ownership.

3.8.2.3. Local Laws, Regulations, and Policies

Riverside County Code of Ordinances. Title 15 of the Riverside County Code of Ordinances regulates buildings and construction by adopting by reference the CBC, in addition to County-specific amendments which are equal to or more stringent than the provisions of the CBC. The County requires project applicants to obtain a grading permit from the building official prior to conducting grading or clearing of any kind. County Ordinance No.457.98 requires a grading permit for any exploratory excavations consisting of 1,000 cubic yards or greater in any one location of one acre or more. This applies to all trenching, borings, and any access road clearing/construction that may be necessary.

Riverside County Department of Environmental Health. The Environmental Health Department oversee Onsite Wastewater Treatment Systems (OWTS) permits, projects, and reviews and approves the plans. To obtain a construction permit for the installation of a new septic system, a building permit is required from the local building and safety agency. A Land Use Application (OWTS Construction Application) must be submitted, along with supporting documentation and fees, at the Downtown Riverside or Indio Office, depending on the location of the project. After submission and evaluation, additional information may be required. Supporting documentation includes:

- A percolation report, including 3 sets of detailed plans, signed by a Professional of Record registered with the Department (individuals or companies listed here are permitted to perform percolation testing in unincorporated Riverside County contracted cities).
- A floor plan, drawn to scale, of the dwellings or structures that the septic system will service.
- Documentation of water service, such as a will-serve letter or water bill. If an existing water well will be used to supply potable water, a well evaluation may be required. If a new well will be constructed, a

Riverside County Environmental Health Permit for construction, reconstruction, or destruction of the well is required throughout the county.

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Riverside County General Plan. The Multipurpose Open Space Element (MOSE) and the Safety Element of the General Plan provide policies to protect natural resources and open space and to minimize the effects of natural and human-caused hazards to safety in and around unincorporated Riverside County. The MOSE addresses protecting and preserving natural resources, agriculture and open space areas, managing mineral resources, preserving and enhancing cultural resources, and providing recreational opportunities for the citizens of Riverside County. The following policies included in the MOSE are relevant to the proposed Project with respect to conservation and protection of mineral resources (Riverside County, 2015).

- Policy OS 14.2. Restrict incompatible land uses within the impact area of existing or potential surface mining areas.
- Policy OS 14.4. The County Geologist shall impose conditions as necessary on proposed mining operations projects to minimize or eliminate the potential adverse impact of mining operations on surrounding properties, and environmental resources.

The intent of the Safety Element is to provide policies to reduce death, injuries, property damage, and economic and social impact from seismic and geologic, flood and inundation, fire, hazardous waste, and climate change-related hazards and provide policies for disaster preparedness, response, and recovery. The following policies included in the Safety Element are relevant to the proposed Project with respect to seismic and geologic hazards (Riverside County, 2021a).

- Policy S 2.2. Request geological and geotechnical investigations in areas with potential for earthquakeinduced liquefaction, landslides, or settlement, for any building proposed for human occupancy and any structure whose damage would cause harm, except for accessory structures/buildings, as determined by County officials. Any studies or surveys should be prepared/completed by a state licensed professional. (AI 81)
- Policy S 2.3. Require that a state-licensed professional investigate the potential for liquefaction in areas designated as underlain by "Susceptible Sediments" and "Shallow Groundwater" for all proposed critical facilities, except for accessory buildings. Any studies must be prepared/completed by a state-licensed professional.
- Policy S 2.6. Request structures in liquefaction and slope instability hazard zones to mitigate the potential of seismically-induced differential settlement through appropriate techniques as determined by geotechnical studies, including a 100-percent maximum variation of fill depths as warranted.
- Policy S 2.10. Identify and request mitigation of on-site slope instability, debris flow, and erosion hazards on lots undergoing substantial improvements, particularly during the entitlement or permitting process.
- Policy S 2.11. Request grading plans, environmental assessments, engineering and geologic technical reports, irrigation and landscaping plans, including ecological restoration and revegetation plans, as appropriate, to ensure the adequate demonstration of a project's ability to mitigate the potential impacts of slope and erosion hazards and loss of native vegetation.
- Policy S 2.15. Request geotechnical studies within documented subsidence zones, as well as zones that may be susceptible to subsidence, prior to the issuance of development permits. Within the documented subsidence zones of the Coachella, San Jacinto, and Elsinore Valleys, the studies should address the potential for reactivation of these zones, consider the potential impact on the project, and provide adequate and acceptable mitigation measures.

 Policy S 2.18. Request studies that assess the potential of this hazard on proposed development within "High" and "Very High" wind erosion hazard zones and request appropriate mitigation to wind erosion hazards prior to the issuance of development permits.

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Policy S 2.20. Request buildings to be designed to resist wind loads as appropriate for their form and location.

Desert Center Area Plan: The Project site is located within the area covered by the Desert Center Area Plan (DCAP). The DCAP contains policies that guide the physical development and land uses in this oasis in the unincorporated portion of eastern Riverside County and addresses critical issues facing Desert Center. Policies are included that address land use, agricultural preservation, light pollution, transportation, multipurpose open space and wildlife habitat and local wildland fire, seismic, and geologic slope hazards (Riverside County, 2021b). The DCAP does not include any policies specific to mineral resources. The DCAP includes the following policies specific to geologic and seismic hazards.

- DCAP 11.1. Protect life and property from seismic-related incidents through adherence to the policies in the Seismic Hazards and Geologic Hazards section of the General Plan Safety Element.
- DCAP 12.1. Protect life and property, and maintain the character of Desert Center, through adherence to the Hillside Development and Slope section of the General Plan Land Use Element, the Rural Mountainous and Open Space land use designations within the General Plan Land Use Element, and the Slope and Soil Instability Hazards section of the General Plan Safety Element.

The proposed Project is consistent with these County policies and would comply with requirements for technical studies identified in the policies.

3.8.3. Methodology for Analysis

Evaluation of potential geology-related impacts is based on data and reports from the BLM, County of Riverside, USGS, and CGS. Geotechnical considerations for structures would be in accordance with current applicable building and seismic codes in effect at the time the engineering plans and designs are approved. The Applicant will include the recommendations of the required geotechnical investigation in all final engineering plans and designs. It is assumed that geotechnical considerations for future structures are designed in accordance with applicable requirements of the CBC and the County of Riverside Municipal Code and any applicable building and seismic codes in effect at the time the grading plans are approved. It is also assumed that the Applicant will include a geotechnical engineering review of the Project engineering plans prior to construction. This EIR assesses impacts to soils and geologic hazards based on these considerations.

This EIR assesses impacts of the Project on mineral resources based on the Mineral Resource Zone and BLM, CGS, and County identification of the mineral resources for the area. The EIR assesses the degree to which the Project would reduce the availability of mineral resource areas identified within the Project area.

3.8.4. CEQA Significance Criteria

The criteria used to determine the significance of potential geology, soils, and mineral resources impacts are based on Appendix G of the State CEQA Guidelines. The proposed Project would result in a significant impact under CEQA related to geology, soils, and mineral resources if the Project would:

- Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death, involving:
 - Strong seismic ground shaking (Impact GEO-1);
 - Seismic-related ground failure, including liquefaction (Impact GEO-2);

- Result in substantial soil erosion or the loss of topsoil (Impact GEO-3);
- Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse (Impact GEO-4);

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- Be located on expansive soil, as defined in Table 18.1-B of the Uniform Building Code (1994) [Section 1802.3.2 of the California Building Code (2007)], creating substantial direct or indirect risks to life and property (Impact GEO-5);
- Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater (Impact GEO-6);
- Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state (Impact MR-1).

The County of Riverside's Environmental Assessment Form includes additional significance criteria, which were also used in the analysis. Most of the County of Riverside criteria for the issue area of Geology, Soils, and Mineral Resources are identical to the existing CEQA Appendix G criteria for those issue areas, except for several criteria related to topography, unstable soils, sewage disposal systems, and wind erosion that differ in wording, include additional hazards, or are completely new and different criteria. The County criteria that differ from the CEQA criteria would result in a significant impact if the Project would:

- Be impacted by or result in an increase in wind erosion and blowsand, either on or off site (see Impact GEO-3)
- Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, collapse, or rockfall hazards (see Impact GEO-4)
- Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in ground subsidence (see Impact GEO-4).

The following State CEQA Appendix G significance criteria were found to have no impact and are not analyzed or discussed further beyond these summaries:

- Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death, involving:
 - Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault.

No known active faults or Alquist-Priolo Earthquake Fault Zones or County of Riverside Fault Study Zones cross or are in the immediate vicinity of the Project. Therefore, there would be no impact related to fault rupture.

• Landslides

The Project site is relatively flat to gently sloping with no potential for landslides or seismically induced landslides. Therefore, there would be no potential for loss, injury, or damage due to landslides or seismically induced landslides.

Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan.

There are no locally important mineral resource recovery sites in the Project area delineated in the County of Riverside General Plan (Riverside County, 2015) or the Desert Center Area Plan (Riverside County, 2021b).

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The following criteria from the County of Riverside's Environmental Assessment Form not already included in CEQA Appendix G and discussed above were found to have no impact and are not analyzed or discussed further beyond these summaries:

Be subject to geologic hazards, such as seiche, mudflow, or volcanic hazard?

The Project site is not located near any large bodies of water and would not be subject to seiche. There are no volcanos in Riverside County and thus the Project would not be subject to volcanic hazards. The Project site is located on and in a relatively flat area and is not near any significant slopes, the soils are primarily sandy to loamy, and thus the Project would not be subject to mudflows.

• Change topography or ground surface relief features?

The proposed Project site is flat to gently sloping and no mass grading would be conducted on the Project site. Mowing, grubbing, grading, and compaction would be conducted for the substation, storage container, operation and maintenance (O&M) facility, laydown yards, pre-fabrication areas, and internal and external roads. Inverter station locations would require only light grubbing. The solar array areas would not be graded, but instead would be mowed and rolled to reduce vegetation height.

Create cut or fill slopes greater than 2:1 or higher than 10 feet?

No mass grading or cut and fill slopes would occur as part of the Project.

Result in grading that affects or negates subsurface sewage disposal systems?

No mass grading or cut and fill slopes would occur as part of the Project and therefore there would be no impact related to grading affecting or negating existing subsurface sewage disposal systems.

Potentially expose people or property to hazards from proposed, existing, or abandoned quarries or mines?

No proposed, existing, or abandoned quarries or mines are located within or near the Project site or along the gen-tie line.

3.8.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to geology, soils, and mineral resources. Public concerns expressed during the scoping process involved concerns regarding impacts of ground disturbance and grading changing drainages and washes, erosion due to the removal of stabilized soils and soil crusts, concerns regarding the ability of the soil to support revegetation after the Project's life due to chemical vegetation treatments resulting in sterilization of the soil, and adverse effects on carbon sequestration in desert vegetation and desert soils due to Project grading and soil disturbance.

Project decommissioning impacts would be the same as those described under Project construction.

Impact GEO-1. The Project would directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death, involving strong seismic ground shaking.

LESS THAN SIGNIFICANT. Although no known active or potentially active faults underlie the Project area, seismically induced ground shaking due to earthquakes along the active faults in the region could occur. Ground shaking at the site could range from moderate to strong (Terracon, 2018) and could result in

damage to Project structures, including the PV solar panels, inverters/transformers, interior collection lines, BESS, on-site substations, O&M building, and the gen-tie line, which could result in adverse effects if not designed and engineered appropriately.

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Potential impacts on the solar facilities and associated structures from ground shaking would be reduced through compliance with applicable regulations and standards, and established engineering practices. Seismic design of the substation would be per the current IEEE 693 "Recommended Practices for Seismic Design of Substations." The regulatory requirements put in place prior to final Project design and construction would minimize any potential impacts related to secondary seismic effects during operation and maintenance activities. A geotechnical investigation and report would be required and would include recommendations regarding geotechnical and engineering design. Structures would be designed in accordance with the County of Riverside Building Code and the most recent CBC and would be consistent with the recommendations outlined in the geotechnical report to be prepared for the proposed Project. Compliance with existing regulatory requirements and implementation of geotechnical design recommendations in the Project's final engineering design would reduce impacts of seismically induced ground shaking to a less than significant level.

Mitigation Measures for Impact GEO-1

No mitigation would be required.

Significance After Mitigation

The impact would be less than significant.

Impact GEO-2. The Project would directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death, involving seismic-related ground failure, including liquefaction.

LESS THAN SIGNIFICANT. Liquefaction occurs when loose, water-saturated sediments lose strength and fail during strong ground shaking. Liquefaction usually occurs in areas with young, saturated unconsolidated sediments with groundwater levels of 50 feet or less. The Project site is located in seismically active Southern California and may be subject to moderate to strong ground shaking. Although the County of Riverside has mapped the Project area as having moderate susceptibility to liquefaction, <u>the geotechnical evaluations in the Project area indicate that due to soil conditions and groundwater levels in the Project area <u>that</u> are expected to be greater than 70 feet below ground surface <u>resulting inthere is a low potentialnegligible potential</u> for liquefaction (Terracon, 2018 and 2024). Additionally, the solar facilities, gen-tie line, and associated structures would be designed in compliance with applicable regulations and standards, geotechnical recommendations, and established engineering procedures. The impact of seismic-related ground failure, including liquefaction, that would result in substantial adverse effects would be less than significant.</u>

Mitigation Measures for Impact GEO-2

No mitigation would be required.

Significance After Mitigation

The impact would be less than significant.

Impact GEO-3. Result in substantial soil erosion or the loss of topsoil.

Less THAN SIGNIFICANT WITH MITIGATION. Since most of the Project site has nearly level to gently sloping topography, no mass grading would be required; however, some areas of the solar site would be impacted by some form of ground disturbance, including mowing, grubbing, minor grading, compaction, and excavation. Some of the areas where facilities and arrays would be located would require light grubbing for leveling and trenching.

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Construction would require ground disturbance for construction of the solar arrays, substation, O&M building, septic system, BESS foundations, access roads, gen-tie line towers, and other features. These activities would expose soil and increase the potential for wind and water erosion and also could disturb desert pavement, resulting in the ecological loss of this soil characteristic. Ground disturbance for Project construction could disturb approximately 44 acres of desert pavement on the Project site (or 67% of the total 66 acres of desert pavement mapped on the Project site) that primarily underlies solar arrays. The remaining mapped desert pavement in the Project site is within or near areas of dry desert wash woodland avoidance and would not be disturbed by Project construction. Areas of desert pavement have been previously mapped with the Oberon Project gen-tie ROW where the proposed Easley gen-tie will be consolidated (approximately 8 acres); however, disturbance for the gen-tie towers would be limited to the tower site and these areas will have likely been previously disturbed by Oberon Project construction (IP Oberon LLC, 2021). Although, the areas of mapped desert pavement that underlie the solar arrays would be primarily mowed and grubbed, it is likely that the surface of these areas of desert pavement would be disturbed to some degree during construction activities for the components that overlie the mapped desert pavement. Undisturbed desert pavements have been found to be the lowest emitters of dust in a study of Mojave Desert soil surfaces but when the underlying soils particles are exposed due to mechanical disturbance, the fine soils below desert pavements can become the highest emitters of dust in desert landscapes (Potter, 2016). Disturbed soils and desert pavement can cause or accelerate erosion, the generation of fugitive dust, and increase sediment in stormwater runoff to ephemeral streams and playa lakes, causing increased turbidity and sedimentation.

The increase in erosion due to Project construction would result in a significant impact without mitigation. Mitigation Measure AQ-1 (Fugitive Dust Control Plan) would require a fugitive dust abatement plan that would mitigate the dust emissions during construction by implementing a suite of effective dust control practices, such as using soil stabilizers or watering exposed areas. The Applicant has prepared a Dust Control Plan that includes identification of sources of fugitive dust that are anticipated to occur during construction, identifies Best Available Control Measures (BACMs) implemented during construction to reduce fugitive dust emissions, and identifies contingency control measures implemented if the BACMs are not adequately controlling fugitive dust (see IP Easley, 2023, Appendix U). Mitigation Measure HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) would ensure proper protection of water quality and soil resources, address exposed soil treatments in the solar fields for both road and non-road surfaces, and identify all monitoring and maintenance activities. Mitigation Measure HWQ-5 (Project Drainage Plan) would require hydrologic assessment of flood discharges and would show how they would be conveyed through or around the site and ensure that erosion does not leave the site and impact adjacent landowners or nearby water features such as ephemeral streams and playas. Mitigation Measure BIO-1 (Biological Monitoring) requires a biological monitoring team oversee activities that impact vegetation and ground disturbing activities. Mitigation Measure BIO-3 (Minimization of Vegetation and Habitat Impacts) would require minimization of soil and vegetation disturbance and impacts to soil and root systems, including management of vegetation height and density. Additionally, MM BIO-5 (Vegetation Resources Management Plan) would require revegetation of disturbed areas, which would reduce the potential for soil erosion in areas of disturbed soils, including areas of disturbed desert pavement, during Project operation. With implementation of the mitigation measures, impacts related to soil erosion would

be less than significant. In addition, the Applicant has committed to preparing a SWPPP (or equivalent document) that would also include BMPs that would reduce potential erosion.

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Soils in desert environments and vegetation are involved in carbon sequestration, the long-term storage of carbon dioxide (CO_2) removed from the atmosphere due to biological activities of plants that ultimately sequester carbon within the soil. The CO₂ released into the soil by the plants may combine with calcium to form calcium carbonate (or caliche) in the soil (Allen and McHughen, 2011). Disturbance of soils and removal of vegetation during Project construction could result in the release of CO₂ into the atmosphere due to damage to carbon sequestrating materials. However, the Project does not include any mass grading; only mowing, grubbing, limited grading, and compaction would occur for small areas of the site for the substation, storage containers, BESS, O&M facility, laydown yards, pre-fabrication areas, and internal and external road locations, and Project construction would not remove large swaths of vegetation. Most areas of the Project site would only require mowing and rolling of woody vegetation to a height of 12 inches and woody vegetation in areas that would not impact Project operation would only be partially cut during construction to allow for regrowth. Most areas of important hydrologic functions and areas of dry desert wash woodland would be avoided by Project design. Implementation of Mitigation Measure BIO-3 would require minimization of soil and vegetation disturbance which would further reduce the potential for disturbance of carbon sequestering soils during Project construction. Therefore, soils sequestering carbon would not be substantially disturbed and would thus not release large qualities of CO₂ to the environment. Additionally, implementation of MM BIO-5 (Vegetation Resources Management Plan) would require revegetation of disturbed areas which would reduce the potential for carbon loss to the atmosphere during Project operation. Due to Project design and implementation of the mitigation measure, impacts related to damage to carbon sequestrating materials and release of CO₂ into the atmosphere would be less than significant.

Operation and maintenance activities would include daily operations and routine maintenance activities, such as PV panel washing, up to four times per year, to optimize output. Cleaning operations would not alter the drainage patterns on site and would not lead to a substantial increase in erosion or loss of topsoil. No heavy equipment use is anticipated during normal operation activities. Roads would be reconditioned approximately once per year to repair erosion or destabilization. Operation and maintenance vehicles could include trucks (pickup and flatbed) and loaders for routine and unscheduled maintenance and water trucks for solar panel washing. During O&M activities, vehicles would be limited to use existing roads and travel paths roads and would not result in additional ground disturbance. Mitigation Measure AQ-1 (Fugitive Dust Control Plan) restricts vehicular access during O&M to <u>desert</u> established unpaved travel paths and ensure the paths remain stabilized and Mitigation Measure HWQ-5 (Project Drainage Plan) requires a Project Drainage Plan that shows how water would traverse the Project without altering drainage patterns and leading to erosion or loss of topsoil. With implementation of the mitigation measures, impacts related to soil erosion during Project operation and maintenance would be less than significant.

At the end of the Project's operation, the solar modules, gen-tie line, and all other improvements would be dismantled and removed from the site. Impacts to soil erosion would be similar to those under construction and similar mitigation would be required to reduce erosion to less than significant.

The Project does not include any sand transport or migration zones so would not result in a loss of sand transport from development of a solar project. The minor washes that pass through the Project site are located more than a mile southwest of the SMZ and are not mapped as eolian sand sources; however, fluvial sand transport across the Project site likely carries sand downslope toward Big Wash and Pinto Wash, which are both mapped as eolian sand sources (Kenney, 2017). Construction of a solar project on this site may result in a slight reduction of the sand source and sand transport; however, large portions of the Project area along the washes would not be developed to avoid direct impacts to desert dry wash woodland and the Project would be designed to allow water to flow through the Project site. Therefore,

the Project would continue to allow sand and stabilizing moisture to reach their destination. Impacts would be less than significant.

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Mitigation Measures for Impact GEO-3

- MM AQ-1 Fugitive Dust Control Plan. See full text in Section 3.4 (Air Quality).
- MM BIO-1 Biological Monitoring. See full text in Section 3.5 (Biological Resources).
- MM BIO-3 Minimization of Vegetation and Habitat Impacts. See full text in Section 3.5 (Biological Resources).
- MM BIO-5 Vegetation Resources Management Plan. See full text in Section 3.5 (Biological Resources).
- MM HWQ-1 Drainage Erosion and Sedimentation Control Plan [DESCP]. See full text in Section 3.11 (Hydrology and Water Quality).

MM HWQ-5 Project Drainage Plan. See full text in Section 3.11 (Hydrology and Water Quality).

Significance After Mitigation

The impact would be less than significant.

Impact GEO-4. The Project would be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse.

Less THAN SIGNIFICANT. The Project site is in an area that has no landslide, lateral spreading, or rockfall hazard due to the flat to gentle slope and a low liquefaction potential as discussed above. The site is in an area mapped as susceptible to subsidence by the County (Riverside County, 2019). Regional ground subsidence is typically caused by petroleum or groundwater withdrawal, and documented historic subsidence has occurred in Riverside County in the areas of Temecula, Murrieta, San Jacinto Valley, and Coachella Valley due to increased groundwater pumping for agricultural and increased urbanization (Riverside County, 2016). However, there are no areas of documented current or historic subsidence in or near to the Project area (Riverside County, 2019; USGS, 2023b). During the 1980s and 1990s when regional groundwater extraction was at its historic maximum in the area, no localized or regional subsidence was documented. No petroleum or natural gas withdrawals are taking place in or near the Project area. Therefore, the potential for local or regional ground subsidence resulting from petroleum, natural gas, or groundwater extraction is considered to be very low and not significant. Given the geologic setting of the region, the Project site is unlikely to become unstable as a result subsidence caused by the Project and result in collapse. The impact would be less than significant.

Overall, the Project area has a low risk of becoming unstable and resulting in geologic impacts. The solar facilities and associated structures would be designed in compliance with all applicable federal, state, and local regulations and standards, and established engineering procedures. A geotechnical investigation and report would be required and would include recommendations regarding geotechnical and engineering design. Compliance with existing regulatory requirements and implementation of the geotechnical recommendations of the required geotechnical investigation and report in Project design would reduce impacts related to unstable geologic units or soil to less than significant.

Mitigation Measures for Impact GEO-4

No mitigation would be required.

Significance After Mitigation

The impact would be less than significant.

Impact GEO-5. The Project would be located on expansive soil creating substantial direct or indirect risks to life and property.

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LESS THAN SIGNIFICANT. Expansive soils are characterized by their ability to undergo significant volume change (shrink and swell) due to variation in soil moisture content. Changes in soil moisture could result from several factors, including rainfall, landscape irrigation, utility leakage, and/or perched groundwater. Expansive soils are typically very fine grained with a high to very high percentage of clay. Soils with moderate to high shrink-swell potential would be classified as expansive soils. The soils in the Project area contain high percentages of sand and have a low to no potential to be expansive. Therefore, the potential for expansive soils to create direct or indirect risks to life or property are less than significant.

Mitigation Measures for Impact GEO-5

No mitigation would be required.

Significance After Mitigation

The impact would be less than significant.

Impact GEO-6. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater.

LESS THAN SIGNIFICANT. Construction and decommissioning would require several hundred temporary employees. During construction, restroom facilities would be provided by portable units to be serviced by licensed providers and no permanent wastewater disposal system would be needed.

During operations, restroom facilities would be located adjacent to the O&M building for on-site personnel. A self-contained septic system or a septic system and leach field would be used. The septic system, and leach field if required, would be in the vicinity of the O&M building to serve the sanitary wastewater treatment needs. Soils in the Project area are somewhat excessively drained and contain high percentages of sand. Percolation testing and design of the septic system would be conducted to meet applicable County septic system requirements. The impact would be less than significant.

Mitigation Measures for Impact GEO-6

No mitigation would be required.

Significance After Mitigation

The impact would be less than significant.

Impact MR-1. The Project would result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state.

LESS THAN SIGNIFICANT. No known mineral sites or mines are located on the Project site, and it is not under a claim, lease, or permit for the production of locatable, leasable, or saleable mineral or mineral materials. The site is located within MRZ 4, where there is not enough information available to determine the presence or absence of mineral deposits. As such, the Project would not result in the loss of availability of a known mineral resource of value to the region or residents of the state.

Construction and operation of the proposed Project would restrict mineral exploration on this land for the life of the Project, but it would not change the mineral content of the area. The Project site is underlain by alluvial materials that may contain aggregate resources; however, use of the site as a solar PV energy facility would not appreciably reduce or restrict the availability of aggregate resources from outside the Project site. Any potential on-site aggregate resources would become available again following decommissioning of the Project. The use of the Project site would result in a less-than-significant impact on known mineral resources.

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Mitigation Measures for Impact MR-1

No mitigation would be required.

Significance After Mitigation

The impact would be less than significant.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.8.6. Cumulative Impacts

Geographic Scope

The geographic extent for the consideration of cumulative effects to geologic, soils, and mineral resources is the Project footprint and a 1,000-foot buffer around the Project. The buffer size corresponds with impacts resulting from geologic hazards being localized in nature, despite geologic hazards, such as seismic events, being felt for great distances. Impacts resulting from erosion are also localized in nature and unlikely to extend much beyond the actual Project's boundaries and adjacent areas of other projects unless an extreme event results in substantial downstream/downwind erosion for soil.

Tables 3.1-1 and 3.1-2 list existing and reasonably foreseeable projects in the region. The existing Desert Sunlight and Desert Harvest Solar Projects are north of the proposed Project, the Oberon Renewable Energy Project is to the southeast, and the Athos Renewable Energy Project is located to the east. Underconstruction solar projects near the proposed Project include the Oberon Renewable Energy Project to the southeast and the Arica and Victory Pass Solar Projects to the southeast. The proposed Sapphire Solar Project is adjacent to the northern area of the Easley Project and the Skybridge Project is located farther north by the Desert Sunlight Solar Farm. The work associated with SCE's line rating increases is not yet known, but construction activities may occur in the vicinity of the Red Bluff Substation. The Athos Renewable Energy Project, the Oberon Renewable Energy Project, the Sapphire Solar Project, and the Desert Harvest Solar Project would be adjacent to the Project site, with several gen-tie lines partially co-located in the Oberon ROW.

These projects could therefore combine with the proposed Project and result in a cumulatively considerable geologic or erosion impacts.

Cumulative Impact Analysis

The Project would have no impact related to fault rupture, landslides, seismically induced landslides, or locally important mineral resource recovery sites; therefore, it could not contribute to cumulative impacts for these issue areas. Geologic hazards would be site-specific impacts for the Project and each of the past, present, and reasonably foreseeable development projects in the cumulative analysis study area. While the geologic and seismic hazards could impact the Project infrastructure, it would be unlikely to be damaged or destroyed in a manner that would combine with the geologic and seismic impacts to the adjacent project and cause injury to a nearby person. As such, the geologic and seismic impacts would not

combine to result in a cumulatively significant geologic impact and the Project's contribution to such impacts would not be cumulatively considerable.

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With respect to soil resources and the potential for erosion and loss of topsoil, impacts to soil erosion triggered by Project construction and operation could combine with the effects of construction and operation of other projects if they were adjacent to each other; for example, if they contributed sediments to the same waterways. The proposed Project is adjacent to two large solar projects that would require substantial ground disturbance, the Oberon Renewable Energy Project (operational) and the Sapphire Solar Project (proposed). While each project's soil disturbance could result in off-site water and wind erosion, the Oberon and Sapphire Projects have or would also undergo an environmental review under NEPA and CEQA and would be required to abide by existing regulations and Applicant commitments such that they would have a DESCP, Drainage Plan, and SWPPP, and plans to stabilize and/or revegetate disturbed areas that that would reduce wind and water erosion and minimize its potential to leave its project site. Additionally, Ceonstruction of the Oberon Project is expected to behas been completed prior to the start of construction of the Easley Project. Additionally, the Easley Project would be subject to the same regulations, have a SWPPP (or equivalent plan), and have similar mitigation measures requirements for dust control, minimization of vegetation and soil disturbance, revegetation of disturbed areas, a DESCP, and a Drainage Plan (MM AQ-1, MM BIO-1, MM BIO-3, MM BIO-5, MM HWQ-1, and MM HWQ-5, respectively) to reduce wind and water erosion and prevent soil from leaving the site. Because wind and water erosion of disturbed soil would be minimized by implementation of plans required by regulations and mitigation measures, it would not combine with the potential erosion from nearby projects and would not combine to create a cumulatively significant impact due to erosion. These same plans, regulations, and measures would ensure that the proposed Project's contribution to erosion would not be cumulatively considerable.

Mitigation Measures for Cumulative Impacts

Mitigation Measures MM AQ-1, MM BIO-1, MM BIO-3, MM BIO-5, MM HWQ-1, and MM HWQ-5 would be implemented to address potential geology, soils, and mineral resources impacts for the proposed Project and alternatives. No additional mitigation is required.

Significance After Mitigation

The impact<u>Cumulative impacts</u> would be less than significant<u>and the Project's contribution to those</u> impacts would not be cumulatively considerable.

3.8.7. Mitigation Measures

- **MM AQ-1** Fugitive Dust Control Plan. See full text in Section 3.4 (Air Quality).
- MM BIO-1 Biological Monitoring. See full text in Section 3.5 (Biological Resources).
- MM BIO-3 Minimization of Vegetation and Habitat Impacts. See full text in Section 3.5 (Biological Resources).
- MM BIO-5 Vegetation Resources Management Plan. See full text in Section 3.5 (Biological Resources).
- MM HWQ-1 Drainage Erosion and Sedimentation Control Plan [DESCP]. See full text in Section 3.11 (Hydrology and Water Quality).
- MM HWQ-5 Project Drainage Plan. See full text in Section 3.11 (Hydrology and Water Quality).

3.9. Greenhouse Gas Emissions

This section describes the environmental setting and regulatory framework with respect to greenhouse gas (GHG) emissions for the proposed Project, including applicable plans, policies, and regulations. The analysis describes the Project's potential GHG emissions during construction and operation, as well as the Project's consistency with state or local plans adopted for the purpose of reducing GHG emissions. This section includes an estimate of the electricity produced from renewable energy resources that would displace the production of electricity from conventional (fossil-fueled) resources. An impact analysis and comparison of project alternatives is included in Section 5.

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3.9.1. Environmental Setting

The global climate depends on the presence of naturally occurring GHG to provide what is commonly known as the "greenhouse effect" that allows heat radiated from the Earth's surface to warm the atmosphere. The greenhouse effect is driven mainly by water vapor, aerosols, carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and other constituents. Globally, the presence of GHG affects temperatures, precipitation, sea levels, ocean currents, wind patterns, and storm activity.

Human activity directly contributes to emissions of six primary anthropogenic GHGs: CO₂, CH₄, N₂O, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆). The standard definition of anthropogenic GHG includes these six substances under the 1997 Kyoto Protocol (UNFCCC, 1998). The most important and widely occurring anthropogenic GHG is CO₂, primarily from the use of fossil fuels as a source of energy.

Effects of GHG Emissions. Changing temperatures, precipitation, sea levels, ocean currents, wind patterns, and storm activity provide indicators and evidence of the effects of climate change. From 1950 onward, relatively comprehensive data sets of observations are available. Research by California's OEHHA documents climate change indicators by categorizing the effects as: changes in California's climate; impacts to physical systems including oceans, lakes, rivers, and snowpack; and impacts to biological systems include increased annual average air temperatures, more-frequent extremely hot days and nights, and increased severity of drought. Impacts to physical systems affected by warming temperatures and changing precipitation patterns show decreasing snowmelt runoff, shrinking glaciers, and rising sea levels. Impacts to terrestrial, marine, and freshwater biological systems, with resulting changes in habitat, agriculture, and food supply are occurring in conjunction with the potential to impact human well-being (OEHHA, 2018).

California GHG Emissions Trends. California first formalized a strategy to achieve GHG reductions in 2008, when California produced approximately 479 million metric tons of CO₂ equivalent (MMTCO2e) according to the official Air Resources Board inventory (CARB, 2022a). The State's economy-wide emissions have been declining in recent years. California's sources of GHG emitted approximately 369 MMTCO2e in 2020 (CARB, 2022a), which is less than ten percent of the U.S. total GHG emissions. The electric power sector emissions were 59.5 MMTCO2e in 2020 from a combination of in-state generation and electricity imported to California (CARB, 2022a).

3.9.2. Regulatory Framework

3.9.2.1. Federal Laws, Regulations, and Policies

U.S. EPA GHG Mandatory Reporting Program (40 CFR Part 98). This rule requires mandatory reporting of GHG emissions for industrial facilities and power plants that emit more than 25,000 MTCO2e per year. The reporting program (40 CFR Part 98.300, Subpart DD) applies to electric and transmission distribution

equipment that use high GWP gases, including SF_6 , for insulation. Currently, there are no federal regulations limiting GHG emissions from the types of sources that would occur with the proposed Project. The circuit breakers and gas switches related to electric power transmission and distribution may be sources of GHG subject to reporting due to the leakage of SF_6 .

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3.9.2.2. State Laws, Regulations, and Policies

California Global Warming Solutions Act of 2006 [Assembly Bill 32 (AB 32)]. The California Global Warming Solutions Act of 2006 (AB 32) required that California's GHG emissions be reduced to 1990 levels by 2020. The reduction is being accomplished through an enforceable statewide cap on global warming emissions beginning in 2012. AB 32 directs the California Air Resources Board (CARB) to develop regulations and a mandatory reporting system to track and monitor global warming emissions levels (AB 32, Chapter 488, Statutes of 2006). AB 32 requires CARB to update the Scoping Plan at least every 5 years. Accordingly, CARB released a 2022 Scoping Plan Update in November 2022 (CARB, 2022b), which outlines a roadmap to achieve carbon neutrality by 2045.

In passing AB 32, the California Legislature found that:

Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems.

Other major Executive Orders, legislation, and regulations adopted for the purpose of reducing GHG emissions support the implementation of AB 32 and California's climate goals, as described below.

California Governor's Executive Orders on GHG Emissions. In September 2018, Executive Order B-55-18 established a new statewide goal to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter. CARB was directed to develop the framework for implementing the goal of carbon neutrality. Executive Order B-30-15 (April 2015) established a California GHG reduction target of 40 percent below 1990 levels by 2030. One purpose of this interim target is to ensure California meets its target of reducing GHG emissions to 80 percent below 1990 levels by 2050 (Executive Order S-3-05, June 2005). This executive order also specifically addresses the need for climate adaptation and directs State agencies to update the California Climate Adaptation Strategy to identify how climate change will affect California infrastructure and industry and what actions the State can take to reduce the risks posed by climate change. Senate Bill 32 (SB 32) of 2016 codified this GHG emissions target to 40 percent below the 1990 level by 2030.

California Renewables Portfolio Standard (RPS) Program. Electric utilities in California must procure a minimum quantity of the sales from eligible renewable energy resources as specified by RPS requirements. To integrate renewable generators on the grid, optimize the delivery of growing amounts of renewable energy production, and facilitate achieving the targeted GHG reductions, the California legislature has also authorized energy agencies to establish energy storage procurement targets.

The Clean Energy and Pollution Reduction Act of 2015 [Senate Bill 350 (SB 350)] established California's state policy objectives on long-term energy planning and procurement as signed into law on October 7, 2015. The 100 Percent Clean Energy Act of 2018 [Senate Bill 100 (SB 100)] revised the RPS targets to establish the policy that eligible renewable energy resources and zero-carbon resources supply 100

percent of retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045. With SB 350 and SB 100, California's objectives include:

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- To set the RPS for the procurement of California's electricity from renewable sources at 33 percent by 2020, 50 percent by 2026, and 60 percent by 2030;
- To plan for 100 percent of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045; and
- To double the energy efficiency savings in electricity and natural gas end uses by retail customers by 2030.

Cap-and-Trade Program (17 CCR 95801 to 96022). The California Cap on Greenhouse Gas Emissions and Market-Based Compliance Mechanisms Regulation (Cap-and-Trade Program) was initially approved by CARB in 2011. The Cap-and-Trade Program applies to covered entities that fall within certain source categories, including suppliers of transportation fuels, retail providers of electricity, and operators of electricity generating facilities. The program is triggered when facility emissions exceed 25,000 metric tons of CO₂ equivalent (MTCO2e) in a year. The covered entities must hold compliance instruments sufficient to cover the actual GHG emissions, as evidenced through CARB's Mandatory Reporting Regulation requirements. This means that transportation fuel suppliers bear the GHG compliance obligation in the Cap-and-Trade Program for the GHG emissions from motor vehicle and off-road equipment fuels used by construction workforces and crews. No specific reporting requirements apply to electric power generation from solar resources.

Emission Reductions of SF₆ from Gas Insulated Equipment (17 CCR 95350 to 95359). Electric power gas insulated equipment and switchgear used in transmission and distribution systems are subject to this regulation for reducing or phasing-out SF₆ emissions and leaks. The regulation, initially adopted by CARB in 2010 and amended in 2022, requires owners of such gas-insulated equipment or switchgear to phase out use of SF₆, maintain records and inventories of their gas-insulated equipment and capacities, and report CO2e emissions to demonstrate compliance with annual limits set by the rule.

California Governor's Office of Planning and Research, Guidelines on GHG (SB 97). The California Natural Resources Agency originally adopted amendments to the State CEQA Guidelines for reviewing the topic of GHG emissions to implement the California Legislature's directive in Public Resources Code Section 21083.05 [enacted as part of Senate Bill 97 (Chapter 185, Statutes, 2007)]. With the amendments that became effective in March 2010, the Natural Resources Agency developed a Final Statement of Reasons that guides the scope of GHG analyses for CEQA documents and addresses the subject of life-cycle analysis.

Life-cycle analysis (i.e., assessing economy-wide GHG emissions from the processes in manufacturing and transporting all raw materials used in developing a given project and infrastructure) depends on emission factors or econometric factors that are not well established for all processes. The basis of State CEQA Guidelines set forth by the Natural Resources Agency indicate that a full life-cycle analysis would be beyond the scope of a given CEQA document because of a lack of consensus guidance on life-cycle analysis methodologies.

3.9.2.3. Local Laws, Regulations, and Policies

County of Riverside Climate Action Plan (CAP). The County published a Climate Action Plan Update, in November 2019, to present the current GHG inventory, forecasts and targets for the County of Riverside. The CAP includes GHG inventories of community-wide and municipal sources based on the data available for the year 2017. The County's 2017 inventory amounted to 4.9 MMTCO2e for activities within the unincorporated communities served by the County of Riverside, as well as County government operations (Riverside County, 2015 and 2019).

The 2019 Climate Action Plan Update identifies various policies to promote renewable energy as a means of achieving GHG emissions reductions. The County General Plan includes one policy directly relevant to the proposed Project:

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 Policy AQ 20.19. Facilitate development and siting of renewable energy facilities and transmission lines in appropriate locations (AI 147).

The Project, a solar generation and energy storage facility, is consistent with this policy.

3.9.3. Methodology for Analysis

All construction- and operation-related emissions are quantified based on the best available forecast of Project activities. The emissions estimates are derived from use of the California Emissions Estimator Model (CalEEMod), version 2020.4.0, software developed by California Air Pollution Control Officers Association (CAPCOA).²³ The Easley Renewable Energy Project EIR Appendix J, Greenhouse Gas Emissions Report, September 2023, provides details on the construction and operational assumptions for the proposed Project and resulting quantities of GHG emissions used in this analysis.

This analysis includes an estimate of GHG emissions avoided by the ability of the proposed solar facility to produce electricity from of-renewable resources. To determine the potential GHG avoided, the overall annual energy production volume is estimated, without considering energy storage. The amount of energy produced for the grid is assumed to displace the use of California's flexible natural gas-fired resources or electricity otherwise imported to California. The calculation considers that solar pro-duction without storage occurs during mid-day hours when California's demand for grid power is off-peak; however, the storage component would allow the solar facility to shift delivery to peak demand hours, when higher-emitting fuel-burning resources could be displaced.

The overall quantities of direct and indirect GHG emissions are compared against the CEQA threshold of significance for GHG emissions recommended by the California local air quality management district, in this case the SCAQMD.

3.9.4. CEQA Significance Criteria

The criteria used to determine the significance of potential environmental impacts of GHG emissions are based on Appendix G of the CEQA Guidelines. The proposed Project would result in a significant impact under CEQA related to GHG emissions if the Project would:

- Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.
- Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

The threshold of significance for GHG emissions from industrial facilities in the SCAQMD is 10,000 MTCO2e per year (SCAQMD 2023). Project-related GHG emissions would be considered to have a significant impact on the environment if total Project emissions (direct and indirect effects) would exceed this threshold. Construction-phase GHG emissions arising from short-term activities may be amortized over the longer-term life of the Project, defined as 30 years, and added to the operational emissions for comparison with the threshold (SCAQMD 2008).

²³ Use of desktop version 2020.4.0 of CalEEMod is allowed based on the project 2022 application filing date; the initial online version of the CalEEMod software was launched in December 2022 (2022.1.1.3).

3.9.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed public concerns related to the topic of global climate change in the desert ecosystem and dry spells. Public concerns address the use of water and temperatures of the region. As part of the effort to address scoping comments and disclose indirect GHG emissions, this analysis includes quantification of GHG emissions attributable to energy consumed for the purposes of delivering the water supply. The "Heat Island Effect" is discussed in Section 3.5 (Biological Resources).

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Scoping comments also identify concerns about the production of the solar panels that could be used for the Project, and the potential carbon footprint (for example, emissions created by manufacturing and transporting) of imported or foreign-produced solar panels. Following the changes in the CEQA Guidelines established in response to SB 97, the California Natural Resources Agency indicated that full life-cycle analysis is beyond the scope of a CEQA document for a given project.

Impact GHG-1. Would the Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

LESS THAN SIGNIFICANT. The Project would directly and indirectly generate GHG emissions due to construction activities and during operation. Operation of the solar generating station would produce electricity from renewable energy resources that would displace the need to produce electricity from conventional (fossil-fueled) resources. Separate discussions appear for the different effects on GHG emissions: those caused by development activities including construction and operations with maintenance and inspection; the effects of land use conversion; and indirect GHG emissions reductions due to the electricity produced from renewable energy.

Emissions from Development Activities: Construction, Operations, and Decommissioning. Construction, operations, and eventual decommissioning activities would cause GHG emissions resulting from fossil-fuel combustion in the engines of construction equipment and the vehicles carrying construction materials and workers to and from the site. Diesel fuel or gasoline is used in mobilizing the heavy-duty construction equipment, site development and preparation, facility construction, and roadway construction, and eventual decommissioning. Decommissioning activities would create a temporary phase of emissions similar to those of construction after the end of the Project's useful life of 30 to 50 years, per an agency-approved Closure and Decommissioning Plan.

Equipment and vehicle use over the duration of construction would amount to 11,222 MTCO2e of GHG emissions during the construction years. Energy consumed during the extraction and delivery of the construction water supply would add 756 MTCO2e to the one-time construction emissions. The sum of emissions from these one-time construction activities would be 11,978 MTCO2e. (Refer to EIR Appendix J, Easley Renewable Energy Project, Greenhouse Gas Emissions Analysis, September 2023, Attachment A for emissions inventory results, and Attachment B for CalEEMod Output.)

The effects of short-term construction GHG emissions may be averaged over a 30-year life of the Project when comparing to the annual significance threshold, as recommended by SCAQMD (SCAQMD 2008). The overall construction GHG emissions amortized over 30 years would be equivalent to an annualized rate of 399 MTCO2e/year. This would be the sum of 374 MTCO2e/year from equipment, vehicles, and helicopters plus 25 MTCO2e/year for the use of water during construction when considered over 30 years. During the operational life of the Project, direct on-site O&M activities would contribute an additional amount of 559 MTCO2e/year. These annually recurring GHG emissions from development activities are shown in Table 3.9-1.

Activity	One-Time During Construction (MTCO2e)	Emissions	Easley Project GHG Emissions (MTCO2e per year)
Construction Equipment and Vehicles, Year 1: One-Time and 30-year Amortized	4,072	136	_
Construction Equipment and Vehicles, Year 2: One-Time and 30-year Amortized	7,069	236	_
Construction Helicopter Activity, Year 2: One-Time and 30-year Amortized	81	3	_
Construction Water Use, Year 1-2: One-Time and 30-year Amortized	756	25	_
Total, Construction: One-Time and 30-year Amortized	11,978	399	399
Operation and Maintenance	_		559
Effects of Land Use Conversion	_	_	16,098
Emissions Avoided by Producing Electricity	_	_	-333,686
Total GHG Emissions, Construction and Operations			-316,630

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Table 3.9-1. Easley Project: GHG Emissions

Source: EIR Appendix J.

Effects of Land Use Conversion. Installation of the Project would result in ground disturbance that would disturb soils and remove some vegetation that naturally provide carbon uptake. Converting a portion of the existing land would eliminate the natural sequestration of carbon because the existing soil and vegetation acts as a sink by removing CO₂ from the atmosphere. Ground disturbance and vegetation removal during construction accordingly adds to the GHG impact because a portion of the soils and vegetation onsite would no longer be present to sequester CO₂. The loss of carbon uptake depends on what fraction of natural vegetation on the site would be cleared for permanent installation of foundations, roads, or other onsite facilities, and on efforts to minimize soil erosion or protect existing ground cover to minimize the loss of carbon uptake. The actual amount of this loss is uncertain because it would depend on the particular characteristics of the site, and the available data on rates of sequestration by vegetation and soils are approximations and depend on the particular characteristics of the natural vegetation and soils of each site. The loss of natural carbon uptake at the Project site would not be expected to exceed 4.31 MTCO2e per year per acre; absent a reliable factor for the site setting, this factor is a proxy based on removing the natural sequestration capability of grassland (published in Appendix A of the CalEEMod User's Guide; CAPCOA 2021). At this rate, the permanent conversion of up to 3,735 acres, due to vegetation removal within the solar and BESS facility site, compacted soils for access roads, and impervious areas for equipment at the site, would result in 16,098 MTCO2e per year of sequestration capability being lost. This estimate is conservatively high because the result assumes all aboveground vegetation and soil carbon accumulation potential for the site would be entirely removed. Construction strategies such as restoring portions of the site to pre-project conditions, controlling fugitive dust, and minimizing impacts to vegetation, habitat and soil erosion contribute to preserving some of the natural carbon storage process for effective carbon sequestration.

Emissions Avoided by Producing Electricity. The production of renewable power would displace power produced by carbon-based fuels that would otherwise be used to meet electricity demand. The power displaced is incremental power provided by generators elsewhere on the grid, typically from natural gas power plants.

The Project would produce up to about 840,000 megawatt-hours (MWh) of electricity each year for delivery to California's end-users. Some of the electricity produced would displace fuel-burning by California's flexible natural gas-fired resources or electricity otherwise imported to California. This would avoid GHG that could otherwise be emitted by fuel-burning generators. The rate of GHG emissions displacement would vary with the mix of generators and imported electricity displaced, with the least efficient and highest-emitting generators normally being turned down to accommodate the additional renewable generation; in California, there is a single dominant dispatchable fuel (natural gas) (CEC 2019; CPUC 2022). To estimate the emissions avoided by solar production, this analysis assumes that the BESS component would dispatch its stored energy after the solar output decreases for the day. Because natural gas provides most of the flexible capacity, this analysis uses an avoided emission factor for efficient, conventional generation using natural gas, combined cycle generators (CEC 2019). (Refer to EIR Appendix J, Easley Renewable Energy Project, Greenhouse Gas Emissions Analysis, September 2023, Attachment C for details on the avoided GHG emissions results.)

The proposed energy storage component would allow the solar facilities to shift the solar output to the grid-wide system during peak (evening) hours when the solar production has the most benefits (or is most valuable in deferring use of natural gas elsewhere). While the solar PV component of the Project would provide power to the grid during daylight hours, the BESS component allows that power to be stored and discharged during high demand periods. The battery system would be charged fully during the cheapest CAISO generation hours (i.e., during middle of the day when solar generation is highest and power prices are lowest across the grid, commonly referred to as the belly of the duck). Energy from the BESS would then be dispatched during the evening ramp after the sun goes down and power prices peak as natural gas-fired power plants must be dispatched rapidly to meet evening demand. The BESS is expected be both charged and discharged fully each day. Applying the factor of 0.373 MTCO2/MWh for displacement of efficient, conventional generation using natural gas, as published by the California Energy Commission (CEC 2019), operation of the BESS as articulated above would result in the avoidance of 333,686 MTCO2/ year for the 650 MW BESS.

The combined direct and indirect effects of the emissions quantified in Table 3.9-1 indicates that a net GHG reduction would occur as a result of implementing the Project, by avoiding around 316,630 MTCO2e annually. This impact would be less than significant, and no mitigation is required.

Mitigation Measures for Impact GHG-1

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

Impact GHG-2. Would the Project conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?

Less THAN SIGNIFICANT. The Project would produce electricity in a manner that improves California's ability to supply renewable energy to end-use customers and to achieve statewide renewable energy goals. Electricity from the solar generating station would be used to serve the needs of California's customers and would facilitate compliance with California's Renewables Portfolio Standard (RPS).

The renewable energy targets in the RPS support California's overall approach to achieving GHG reduction goals. The California Global Warming Solutions Act of 2006 (AB 32) and Senate Bill 32 (SB 32) of 2016

codified the GHG emissions target to 40 percent below the 1990 level by 2030. Subsequently, California's Clean Energy and Pollution Reduction Act of 2015 [Senate Bill 350 (SB 350)], SB 350 set ambitious 2030 targets for energy efficiency and renewable electricity, among other actions aimed at reducing GHG emissions across the energy and transportation sectors. SB 350 also enhances the state's ability to meet its long-term climate goal of reducing GHG emissions to 80 percent below 1990 levels by 2050. The current RPS was signed into law in September 2018 with Senate Bill 100 (SB 100), which established the goals of 50 percent renewable energy resources by 2026 and 60 percent renewable energy resources by 2030. SB 100 also sets a target for California to achieve a GHG-free energy supply by December 31, 2045.

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The strategy for achieving the GHG reductions is set forth by the ARB Climate Change Scoping Plan. Overall, the electricity produced by the Project would contribute to continuing GHG reductions in California's power supply. Because the Project would use renewable energy resources to produce electricity, the avoided GHG emissions would be consistent with and would not conflict with the California's GHG emissions reduction targets and the Climate Change Scoping Plan that relies on achieving the RPS targets. Additionally, the Project would be consistent with County of Riverside policy direction on promoting renewable energy, as in the 2019 Climate Action Plan Update, and to facilitate development and siting of renewable energy facilities and transmission lines in appropriate locations (Policy AQ 20.19).

Other activities related to construction, operation, and decommissioning of the Project would either be exempt from or would be required to comply with ARB rules and regulations to reduce GHG emissions and would cause no other potential conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions.

As the total GHG emissions generated during construction, operation, and decommissioning of the Project would be considerably less than the GHG emissions avoided, the solar power plant would lead to a net reduction in GHG emissions across the State's electricity system, which would contribute to meeting the State's GHG reduction goals under AB 32 and subsequent targets for 2030 and beyond. The Project would not conflict with any applicable GHG management plan, policy, or regulation. This impact would be less than significant, and no mitigation is required.

Mitigation Measures for Impact GHG-2

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.9.6. Cumulative Impacts

Geographic Scope

This impact assessment describes impacts of the proposed Project of contributing towards global climate change through GHG emissions. Because the direct environmental effect of GHG emissions is to influence global climate change, GHG emissions are by their nature inherently a cumulative concern with a cumulatively global scope. Therefore, the geographic extent of the Project's cumulative area of impact would be worldwide.

Cumulative Impact Analysis

No single project could, by itself, result in a substantial change in the global climate. As the project specific analysis for this proposed Project analyses cumulative global impacts, there is no separate cumulative impacts analysis for global climate change. The main contribution of GHG emissions from the Project would be from construction equipment usage during the construction phase and motor vehicles trips by employees and maintenance vehicles during Project operations. The Project's emissions would, therefore, contribute to the increase in emissions in the transportation sector. Construction emissions would be finite and temporary and would cease at the end of construction activities.

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Although the Project would result in a short-term contribution to cumulative GHG emissions in California, operation of the Project would offset emissions from the electricity generation sector. Therefore, the total GHG construction emissions that would be associated with the Project would be offset by Project operations. Overall, the Project would not contribute to cumulative GHG emissions in California because operation of the Project would provide electric power with negligible operational GHG emissions over the long term when compared to traditional fossil-fueled generation technologies. Thus, the Project would not have a cumulatively considerable impact on global climate change, and cumulative impacts would therefore be less than significant.

Furthermore, the evaluation of GHG impacts evaluates the contribution of the proposed Project to inherently address cumulative climate change effects and demonstrates that the proposed Project would result in a long-term net reduction of GHG emissions and would not conflict with GHG reduction goals. The Project-specific incremental contribution to GHG emissions would therefore not be cumulatively considerable.

Mitigation Measures for Cumulative Impacts

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

3.9.7. Mitigation Measures

Impacts would be less than significant, and no mitigation would be required.

3.10. Hazards and Hazardous Materials

This section evaluates the impacts from hazards and hazardous materials resulting from implementation of the proposed Easley Renewable Energy Project (Project). The analysis in this section: presents an overview of existing conditions that influence risks associated with hazards and hazardous materials; describes the applicable regulations; identifies the criteria used for determining the significance of environmental impacts; and describes the potential impacts from hazards and hazardous materials of the proposed Project. An impact analysis and comparison of project alternatives is included in Section 5.

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Issues raised during scoping related to hazards and hazardous materials include concerns regarding health effects from the increase in wind-blown dust, which carries silica, pollens, and other chemicals/pollutants (herbicides), concerns relating to Valley Fever, health hazards related to electric and magnetic fields (EMF), increased risk of wildfire due to presence of power lines, contamination from chemicals used for vegetation management, concerns regarding hazardous materials releases if/when the solar panels are broken. These issues are discussed in the analysis below.

3.10.1. Environmental Setting

3.10.1.1. Land Use

Existing and past land use activities are commonly used as indicators of sites or areas where hazardous material storage and use may have occurred or where potential environmental contamination may exist. For example, many historic and current industrial sites have soil or groundwater contaminated by hazardous substances. Other hazardous materials sources include leaking underground tanks in commercial and rural areas, contaminated surface runoff from polluted sites, and contaminated groundwater plumes. Current and former agricultural properties commonly have herbicide, pesticide, and/or fumigant soil contamination.

The Project is located primarily on open space desert scrub land in Riverside County, north of Interstate 10 (I-10) and east of Desert Center, California. Vegetation communities at the Project site are generally limited to scattered creosote brush scrub and desert dry wash woodland. Land uses near the Project include agriculture, the small community of Lake Tamarisk, scattered residences, renewable energy, energy transmission, historical military operations, and recreational development and use. The community of Lake Tamarisk, identified as the Lake Tamarisk Desert Resort (LTDR), is located south to southwest of the Project site and is a 55-plus, member-owned community. In addition to community facilities and amenities, the Lake Tamarisk community includes individual homes and RV lots.

The Project is on a mix of private and federal lands. The federal lands are BLM-administered public lands within a Desert Renewable Energy Conservation Plan (DRECP) Development Focus Area (DFA). The surrounding area consists of primarily BLM-administered land with some private land, including the small community of Lake Tamarisk, scattered rural residences, and farms. Several existing, under construction, and proposed solar projects are in the Desert Center vicinity. The existing Desert Sunlight and Desert Harvest solar projects are north of the proposed Project and Athos Renewable Energy Project is located to the east. Solar projects that are under construction nearby include the Oberon Renewable Energy Project to the southeast, and the Arica and Victory Pass Solar Projects and the Palen Solar Project to the southeast. The Sapphire Solar Project, proposed by EDF Renewables, is adjacent to the northern area of the Easley Project. The Project's proposed gen-tie line would be located within an approximate 6.7-mile 500 kV ROW starting at the onsite substation located on private property (APN 808-023-018) and continuing south of the substation into and across the Oberon Renewable Energy Project site on BLM-administered land for the remainder of the route.

3.10.1.2. Hazardous Materials

Hazardous materials used during construction may include petroleum products such as gasoline, diesel fuel, and hydraulic fluid; lubricating oils and solvents; cleansers; explosives; and other substances. Some of these materials would be used at material yards and on the ROW to operate and maintain equipment during construction. During construction, hazardous materials would be stored at designated material yards for storing hazardous materials on private land adjacent to BLM-administered land. Hazardous materials would be stored only in designated areas on impervious surfaces, on plastic groundcovers, or with secondary containment, to prevent spills or leaks from infiltrating the ground. Liquids would be stored in secured areas (fenced or locked building on the solar site). Storage containers would be properly labeled to indicate the contents of the container. Staging yards, refueling areas, and chemical storage areas, if needed, would be located on private land adjacent to BLM-administered land in upland areas that do not slope to sensitive resources. Construction materials would be sorted on site throughout construction and hazardous waste would be transported to an appropriate hazardous waste handling facility. (IP Easley, 2023, Appendix W)

Due to the remote location of the Project site, if onsite fuel tanks are utilized for equipment refueling, they are assumed to be no larger than 1,000 gallons each and they would comply with all applicable regulations. All hazardous chemicals would be stored in appropriate containers in an enclosed and secured location with secondary containment to prevent leakages. The fuels stored on site would be within a fenced and secure temporary staging area. As there would be regulated hazardous materials on site, storage procedures would be dictated by the Hazardous Materials Management Plan (HMMP) (IP Easley, 2023, Appendix W) that would be developed prior to construction. Spill prevention measures and secondary containment would be implemented as part of the Project where warranted.

Trucks and construction vehicles would be serviced from off-site facilities. The use, storage, transport, and disposal of hazardous materials used in construction of the facility would be carried out in accordance with federal, state, and county regulations. No extremely hazardous substances (i.e., those governed pursuant to Title 40, Part 355 of the Code of Federal Regulations) are anticipated to be produced, used, stored, transported, or legally disposed of as a result of Project construction. Material Safety Data Sheets for all applicable materials present on site would be made readily available to on-site personnel.

If quantities of hazardous materials exceed regulatory thresholds, the Project would ensure that storage is undertaken in compliance with a Spill Prevention, Control, and Countermeasure (SPCC) Rule and a Hazardous Materials Business Plan (HMBP), which would be developed prior to construction, in compliance with the Unified Program (EPA, 2010; CalEPA, 2023). Regulatory thresholds for a SPCC are onsite tanks with storage capacity of more than 1,320 gallons of petroleum, and for an HMBP are hazardous materials handled and stored on site in quantities of equal to or greater than 500 pounds, 55 gallons, or 200 cubic feet of gas.

Noxious weeds and other nonnative invasive plant species could create a fire hazard if allowed to become established, and invasive weeds could also become problematic from an ecological perspective. Therefore, weed control activities would be implemented within the Project limits and would include both mechanical and targeted herbicide control methods, as necessary. Herbicides may be necessary to control the spread of invasive weeds following construction as part of an integrated pest management strategy. All weed control using herbicides and adjuvants used on the Project site would be conducted with chemicals identified in the approved Integrated Weed Management Plan (IWMP) at rates and in conditions specified in the IWMP (IP Easley, 2023, Appendix N). Pesticides and herbicides used on BLM-administered land will be those identified and approved by the BLM in the IWMP. Small quantities of other materials such as pesticides, fertilizers, paints, lubricants and fuels, cleaners and solvents, and miscellaneous chemicals

may be used during Project operation and maintenance activities. The HMMP developed for the Project (IP Easley, 2023, Appendix W) provides hazardous materials management guidelines, including handling and storage procedures, hazardous materials spill prevention, response, and cleanup procedures, and notification and reporting procedures.

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Non-hazardous construction materials that cannot be reused or recycled would likely be disposed of at county landfills. Hazardous waste and electrical waste would be transported to a hazardous waste hand-ling facility (e.g., electronic-waste recycling) by authorized disposal companies as needed. All contractors and workers would be educated about waste sorting, appropriate recycling storage areas, and how to reduce landfill waste.

3.10.1.3. Formerly Used Defense Sites (FUDS)

There are three formerly used defense sites located in the vicinity of the Project: Desert Training Center/ California-Arizona Maneuver Area (DTC/C AMA), Desert Center Division Camp (Camp Desert Center), and Desert Center Army Air Field. In 1942, as part of World War II (WWII) military efforts, the DTC/C AMA facility was created for training troops in desert conditions. DTC/C AMA was the largest training ground in military history, at approximately 18,000 square miles, and included 11 divisional camps and stretched from Indio, California, eastward to near Prescott, Arizona, north to Searchlight, Nevada, and south to Yuma, Arizona. Desert training of troops, armored vehicles, artillery, and military planes took place at DTC/C AMA from 1942 to 1944. These maneuvers included weapons training, firing exercises, and laying out and removing landmine fields (Meller, 1946). Three separate maneuver areas were identified within DTC/C AMA, areas A, B, and C; the proposed Project is located in area A, which consisted of the portions of DTC/C AMA west of the Colorado River (BLM, 1985).

Desert Center Division Camp was located primarily north and west of Desert Center, California, northwest of and in the general vicinity of the Project, and consisted of 34,000 acres used for maneuvers, camp sites, an evacuation hospital, and an ammunition depot. No permanent division camp was constructed at this site, only temporary structures used to house the evacuation hospital, an observer detachment, an ordnance maintenance company, a quartermaster truck unit, and Ammunition Depot. No. 1. The maneuver areas were associated with the surrounding DTC/C AMA (USACE, 1996).

The Desert Center Army Airfield, located approximately 1 mile east of the Project, was located within the Desert Center Division Camp and was used to aid in combat training during maneuvers (Military Museum, 2020). The airfield included two 5500-ft runways with associated taxiways and parking aprons, and numerous support buildings. The airfield had two petroleum underground storage tanks (USTs) that were removed in 1998 (USACE, 2021). The airfield is currently owned and operated by the Chuckwalla Valley Raceway.

The former WWII military use of the Project area may have resulted in the presence of military munitions and explosives of concern (MEC), munitions debris (MD), and unexploded ordinance (UXO). The Project operator would prepare an Unexploded Ordnance (UXO) Identification, Training and Reporting Plan to formalize UXO training, investigation, removal, and disposal of military waste debris and ordnance.

3.10.1.4. Valley Fever

Valley Fever (coccidioidomycosis or "cocci") is an illness caused by the inhalation of soil-dwelling *Coccidioides* fungus spores. The *Coccidioides* fungus lives in the top 2 to 12 inches of soil and dirt in many parts of California; it is most prevalent in the Central Valley and in desert/dry areas (CDPH, 2013). When soil containing this fungus is disturbed by activities such as digging, vehicles, or by the wind, the fungal spores become airborne and can be inhaled. Valley Fever is not transmitted from person to person (CDPH, 2023a).

Valley fever can be serious and even fatal. Many people exposed to the *Coccidioides* fungus spores exhibit no symptoms, while others may have cold or flu-like symptoms that usually go away on their own after several weeks to months. It is likely that numerous mild cases of Valley Fever go undiagnosed. It usually infects the lungs and can cause flu-like symptoms or pneumonia. Some people may require hospitalization. In rare cases, the infection can spread beyond the lungs to other parts of the body (this is called disseminated Valley fever) (CDPH, 2023b).

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Valley Fever is <u>generally</u> considered endemic in California, with cases in the state increasing from less than 1000 cases in 2000 to <u>a high of</u> more than 9000 cases in 2019 and 7200 cases in the first 9 months of 2020 (CDPH, 2020, 2022a). According to the California Department of Public Health (CDPH), the number of reported incidences of Valley Fever in California in 2019 was the highest since coccidioidomycosis became individually reportable in 1995 (CDPH, 2020). The incidence rates of coccidioidomycosis in California has decreased since 2019, with rates of 18.2 per 100,000 population (7,252 cases) in 2020, of 20.1 per 100,000 population (8,030 cases) in 2021, and of 19.1 per 100,000 population (7,451 cases) in 2022 (CDPH, 2022a, 2023c). However, the rate seems to be on an increasing trend since the decrease in 2020. There were 9089 cases reported in 2020, with an incidence rate of 22.9 cases per 100,000 population (CDPH, 2022).

Valley Fever is highly endemic in counties where incidence rates are greater than 20 per 100,000 population (CDPH, 2013). The number of incidences has significantly increased in Riverside County from 34 cases with an incidence rate of 1.5 per 100,000 in 2013 to 290-<u>349</u> cases and an incidence rate of 11.9<u>14.3</u> per 100,000 in 2019-<u>2022</u> (CDPH, 2022<u>b</u>, 2023c). In 2021-and 2022, there were an estimated 471 and 385 reported cases, respectively; this results in incidence rates of approximately <u>19.2</u> and <u>15.7</u> per <u>100,000</u> for <u>2021</u> and <u>2022</u> (CDPH, <u>2023c)</u>the County reported the highest number of incidences in the last <u>10</u> years with an estimated 455 cases and an incidence rate of <u>18.4</u> per <u>100,000</u> population, which are rapidly approaching <u>approaches</u> the rate required for a County to be classified as having endemic Valley Fever. Despite the general increasing trend of incidence rates for Valley Fever in Riverside County, the rate has remained below the statewide incidence rate.

Several notable incidences of solar farm construction workers contracting Valley Fever have occurred in San Luis Obispo and Monterey Counties. Between October 2011 and April 2014, 44 cases of Valley Fever were identified among the 3,572 employees at 2 solar farm construction sites in San Luis Obispo County (an incidence rate of 1.2 cases per 100 workers) (Wilken et al., 2015). In Monterey County, nine confirmed cases of Valley Fever were identified among 2,410 construction workers who worked on a solar farm project in 2016. This corresponded to an annualized rate of Valley Fever among workers of 1,095 per 100,000 population whereas the 2016 rate for the entire County was 17.5 per 100,000 population in July 2017. At the Monterey solar site, the workers reported frequent high dust levels that were unable to be controlled by water trucks, infrequent use of respirators or dust masks, and inadequate Valley Fever symptom and prevention training. In both cases the CDPH conducted investigations and provided similar recommendations that included: improving worksite dust-control measures; using earth-moving equipment and trucks with high-efficiency particulate air (HEPA) filtered enclosed cabs to protect the operator; implementing and enforcing criteria for suspending work on the basis of wind and dust conditions; providing outdoor workers access to National Institute for Occupational Safety and Health-approved respiratory protection when conducting or in close proximity to soil-disturbing work, and for exposure to excessive wind-blown dust; providing clean coveralls daily to employees; encouraging workers to remove coveralls and work shoes before entering vehicles to leave the worksite; developing effective Valley Fever training for all employees that includes ways to reduce exposure, how to recognize symptoms, and where to seek care; and improving compliance by employers and their designated health care providers with reporting cases to local health jurisdictions, workers' compensation carriers, and Cal/OSHA.

3.10.1.5. Environmental Contamination

Ground-disturbing activities could encounter environmental contamination if the activity is near commercial or industrial sites with known contamination or adjacent to sites that store and use large quantities of hazardous materials, or in agricultural areas that may have used herbicides, pesticides, or fumigants. The substation, storage container, O&M facility, laydown yards, pre-fabrication areas, and internal and external road locations would require mowing, grubbing, grading and compaction. Inverter station locations would require light grubbing. The solar array areas would require mowing and rolling of woody vegetation to a height of 12 inches in an effort to preserve vegetation and provide for better and faster post-construction site revegetation. Some of the areas where facilities and arrays would be located would require leveling and smoothing. Ground disturbance for the 500 kV gen-tie line would include excavation for tower foundations and smoothing or grading of pull sites.

Land uses in the region of the proposed Project include existing/under construction solar facilities (Desert Sunlight, Desert Harvest, Athos Renewable Energy Project, Oberon Renewable Energy Project, Arica and Victory Pass Solar Projects, Palen Solar Project, and the Sapphire Solar Project), the Lake Tamarisk residential community, a mobile home park, agricultural parcels, a towing and storage facility, and the Chuckwalla Valley Raceway and associated private airport (Desert Center Airport). Otherwise, no commercial or other industrial uses are near the Project site, other than the land uses listed above.

A review of the State Water Resources Control Board (SWRCB) GeoTracker and Department of Toxic Substance Control (DTSC) EnviroStor websites revealed no known listed hazardous material or contaminated sites at or immediately adjacent to the Project site (SWRCB, 2023; DTSC 2023). The Geotracker database review did identity a landfill, the Desert Center Sanitary Landfill (DCSL), located approximately 0.35 miles west of the Project and a closed leaking underground site located 2 miles south of the Project in Desert Center (SWRCB, 2023). The DCSL is on land owned by the BLM, but the landfill is operated by the Riverside County Department of Waste Resources (RCDWR). The DCSL was opened to the public in 1972 and is still in operation; the current permitted waste management area accepting waste is approximately 7 acres in size. Wastes accepted at the landfill include residential, mixed municipal, agricultural, construction/demolition wastes and small amounts of dead animals and triple rinsed pesticide containers (RCDWR, 2022). The DCSL is currently undergoing site monitoring and sampling of three groundwater monitoring wells along the periphery of the landfill as per a Waste Discharge Requirement Order and an accompanying Monitoring and Reporting Program. In 2000, volatile organic compounds (VOCs) were detected in the monitoring wells and after additional sampling and testing and coordination with the Regional Water Quality Control Board (RWQCB), monitored natural attenuation and continued groundwater and gas probe monitoring was chosen as the appropriate corrective action for the DCSL (RCDWR, 2022). The trend of VOCs in the groundwater at and near the DCSL shows a general decreasing trend of VOC concentration in the wells since 2005 (RCDWR, 2022). Groundwater flow in the landfill area is to the northeast and water levels range from 220 to 240 feet below ground surface. This deep contaminated groundwater is unlikely to be encountered during Project construction even if it has migrated towards the Project site.

Two Phase II Environmental Site Assessments (ESAs) were conducted for Project private parcels that were identified by the Applicant's Phase I ESAs as sites with potential environmental contamination due to former agricultural activities (since at least 1978) and the presence of waste drums and fuel aboveground storage tanks (ASTs) (Stantec, 2024). The Phase II ESAs included limited shallow soil testing for total petroleum hydrocarbons (TPHs), volatile organic compounds (VOCs), organochlorine pesticides (OCPs), and metals. The sampling and testing for the 2 Phase II ESAs were conducted in May 2022 and October 2023/February 2024. Results of the analyses found OPCs and VOCs were not detected above laboratory reporting limits, and metals concentrations were found to be within the range considered natural for soil within California (Stantec, 2024). Petroleum hydrocarbons (TPH) in the oil and diesel range were found in low concentrations in the soil at the identified fuel ASTs and waste drums, however the detected levels

were not above the commercial screening levels (Stantec, 2024). Stantec recommended further sampling and analyses at one of the ASTs, which is currently ongoing.

3.10.1.6. Battery Energy Storage Systems

The Project includes the installation of up to 650 MW of 2- or 4-hour energy storage. The storage system would consist of battery or flywheel system technology housed in electrical enclosures and buried electrical cable. Up to 300 electrical enclosures would be installed on concrete foundations designed for secondary containment. The storage component would have a footprint of approximately 35 acres. A battery energy storage system (BESS) is a type of system that uses an arrangement of batteries and other electrical equipment to store electrical energy. Containerized systems, which are one form of a modular design, have become a popular means of integrating BESS projects efficiently.

The battery energy storage system (BESS) could use any commercially available battery technology, including but not limited to lithium ion, flow, lead acid, sodium sulfur and sodium or nickel hydride. Battery systems are operationally silent. Flywheel systems have a noise rating of 45 dBA. However, either system would be accompanied by air conditioners or heat exchangers and inverters, and a 1<u>5</u>0,000-gallon water tank would be located at each BESS <u>unit/arealocation</u>.

The BESS would be designed, constructed, operated and maintained in accordance with applicable industry best practices and regulatory requirements, including fire safety standards. The BESS would comply with the current California Fire Code (CFC), which governs the code requirements to minimize the risk of fire and life safety hazards specific to battery energy storage systems used for load shedding, load sharing and other grid services (Chapter 12 Section 1206 of the 2019 CFC). In accordance with the CFC, the battery enclosure and the site installation design are all required to be approved by the State Fire Marshal. Final safety design would follow applicable standards and would be specific to the battery technology chosen, including, but not limited to, National Fire Protection Association 855 (standard for the Installation of Stationary Energy Storage Systems) and Section 1206 of the California Fire Code.

If applicable, the BESS would be certified to UL 9540, the standard associated with control, protection, power conversion, communication, controlling the system environment, air, fire detection and suppression system related to the functioning of the energy storage system. The battery would be tested to UL 9540A, a test method intended to document the fire characteristics associated with thermal event or fire and would confirm that the system would self-extinguish without active fire-fighting measures. The system would be designed, such that, during a fire event, the results of the UL 9540A test would show that any internal fire is contained within the enclosure and not spread to the other parts of the facility. The results of this test are used to inform facility safety system design and emergency response plans which would be shared with first responders. If applicable, the system would use a chemical agent suppressant-based system to detect and suppress fires. If smoke or heat were detected, or if the system were manually triggered, an alarm would sound, horn strobes would flash, and the system would release suppressant, typically FM 200, NOVEC 1230 or similar from pressurized storage cylinders. Final safety design would follow applicable standards and would be specific to the technology chosen.

Large-scale BESS are commonly designed for high-powered and rapid-charge cycles that can generate heat quickly and affect the safe operation of the batteries (Conzen et al, 2022). BESS require a reliable and well-performing cooling system that either directly cools the battery cell/modules or cools the enclosure in which the battery packs are installed. Failures of the BESS cooling or fire prevention systems can result in fires and explosions within BESS containers. This can occur under a variety of scenarios (i.e., short circuit), in which the stored chemical energy is converted to thermal energy with the results of cell rupture and the release of large amounts of flammable and potentially toxic gases, which can lead to fire and explosion (Conzen et al, 2022). As of June 2021, approximately 30 global large-scale BESS have experienced failures and destructive fires.

A notable event that led to a shift in the industry in terms of hazard mitigation at BESS in the USA occurred in 2019 at a BESS unit owned and operated by Arizona Public Service Company. The facility experienced a thermal runaway event and, even though the BESS was equipped with a clean agent suppression system, it was not provided with deflagration venting or explosion prevention systems (i.e., the requirement for explosion control was not satisfied). When the HAZMAT team attempted to enter the BESS to survey the scale of the event, an explosion occurred, seriously injuring the firefighters. Five contributing factors that led to the incident were identified: Internal failure in the battery cell initiated thermal runaway; the clean agent fire suppression system was incapable of stopping thermal runaway; the facility lacked thermal barriers between battery cells, this lack of barriers allowed the thermal runaway event to cascade to adjacent cells, without a means to ventilate the enclosure, the flammable off-gases from the batteries concentrated to explosive levels; and the emergency response plan did not include extinguishing, ventilation, or entry procedures.

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3.10.1.7. Wildland Fires

The Project is located in both Federal Responsibility Areas (FRAs) and Local Responsibility Areas (LRAs) (CAL FIRE, 2007; Riverside County, 2021). According to the California Department of Forestry and Fire Protection (CAL FIRE) Fire Hazard Severity Zones (FHSZ) Map and County of Riverside General Plan Safety Element, the Project would be in areas of FRA and LRA Moderate FHSZ (CAL FIRE, 2007; Riverside County, 2021). The Project is located adjacent to the Lake Tamarisk Community, which is within a Local Responsibility Area. Agencies that are likely to provide wildfire protection to the Project would be Riverside County Fire Department and BLM Fire and Aviation Program. Because the Project is not located in a State Responsibility Area, CAL FIRE would not have primary responsibility for fire management or suppression activities in this area. While individual fire agencies have primary responsibility for specific geographic areas, under interagency cooperative and mutual aid agreements, fire agencies throughout the region aid each other as needed. Typically, when a wildland fire is reported, the nearest available firefighting units are dispatched, as it is not always immediately clear which wildland parcels are involved and which agency has jurisdiction. There is limited potential for wildfire on the site due to sparse vegetation. (See also Section 3.19, Wildfire, where wildfire hazards are discussed in more detail.)

3.10.1.8. Schools

There are no schools or learning centers located within a 0.25-mile radius of the proposed Project. As discussed in Section 3.16, Public Services and Utilities, the closest school to the proposed Project is the Eagle Mountain School, located approximately 6 miles northwest of the Project.

3.10.1.9. Airports and Airstrips

The closest airport to the Project is the private Desert Center Airport, located approximately 1 mile east of the proposed Project. (See Figure 2-1, Project Area). The airport has one runway and is part of the Chuckwalla Valley Raceway and is available for daily use for airplane, helicopter, and skydiving operations. No master plan has been prepared for the Desert Center Airport and because the airport activity level is very low, the outer edge of the FAR Part 77 horizontal surface serves to define the Airport Influence Area Boundary. The Project site is not located within the Airport Influence Area Boundary nor any of the Airport Compatibility Zones; the Airport Influence Area Boundary and the outer edge of Compatibility Zone E are located just east of the portion of the Project east of Highway 177 (RCALUC, 2004). Compatibility Zone E is defined as the area wherein 10 to 15 percent of near-airport accidents occur. There are very few restrictions for development within Zone E, except uses that represent a hazard to flights. Uses that attract very high concentrations of people in confined areas also are discouraged in locations below or near the principal arrival and departure flight tracks. and where concern for risks applies to uses for which potential consequences are severe (e.g., very high intensity activities in a confined area).

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The Blythe Airport is the nearest public airport serving Riverside County, located approximately 40 miles east of the Project. The airport has two runways and is mostly used for general aviation (AirNav, 2023a). Julian Hinds Pump Plant Airstrip, a private airstrip, and the Chiriaco Summit Airport, a public airstrip, are located about 14 and 18.5 miles west of the proposed Project (AirNav, 2023b). <u>The Project is not within the airport influence area of these airports.</u>

Based on the California Military Land Use Compatibility Analyst (CMLUCA) database Tthe Project site is not within 4,000 feet of a military installation, or within of a military special-use airspace, or beneath a military designated low-level flight path Based on the California Military Land Use Compatibility Analyst (CMLUCA) database, However, based on the CMLUCA, the Project site is located within/crossed by military training Visual Route (VR) flight paths (CMLUCA, 2023). The FAA Military Training Route (MTR) map indicates that the Project site and surrounding area are crossed by military training routes that include low level training with elevations that range from 200 to 7000 feet MSL (FAA, 2024).

3.10.1.10. Electric and Magnetic Fields

Electric voltage and electric current from transmission lines create electric and magnetic fields (EMF). Possible health effects associated with exposure to EMF have been the subject of scientific investigation since the 1970s, and there continues to be public concern about the health effects of EMF exposure. However, EMF is not addressed here as an environmental impact under CEQA. EMF has repeatedly been recognized as not an environmental impact to be analyzed in the context of CEQA because (1) there is no agreement among scientists that EMF does create a potential health risk, and (2) there are no defined or adopted CEQA standards for defining health risks from EMF.

3.10.2. Regulatory Framework

Hazardous materials are defined by federal and state regulations that aim to protect public health and the environment. Hazardous materials have certain chemical, physical, or infectious properties that cause them to be considered hazardous. The term "hazardous materials" refers to both hazardous substances and hazardous wastes. Under federal and state laws, any material, including wastes, may be considered hazardous if it is specifically listed by statute as such or if it is toxic (causes adverse human health effects), ignitable (has the ability to burn), corrosive (causes severe burns or damage to materials), or reactive (causes explosions or generates toxic gases). Hazardous materials are defined in the federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 101(14), and also in the California Code of Regulations, Title 22, Chapter 11, Article 2, Section 66261, which provides the following definition:

A hazardous material is a substance or combination of substances which, because of its quantity, concentration, or physical, chemical or infectious characteristics, may either (1) cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (2) pose a substantial present or potential hazard to human health or environment when improperly treated, stored, transported or disposed of or otherwise managed.

For this analysis, soil that is excavated from a site containing hazardous materials would be considered a hazardous waste if it exceeded specific California Code of Regulations Title 22 criteria or criteria defined in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or other relevant federal regulations. Remediation (cleanup and safe removal/disposal) of hazardous wastes found at a site is required if excavation of these materials occurs; it may also be required if certain other activities occur. Even if soils or groundwater at a contaminated site do not have the characteristics required to be

defined as hazardous wastes, remediation of the site may be required by regulatory agencies subject to jurisdictional authority. Cleanup requirements are determined on a case-by-case basis by the agency taking lead jurisdiction.

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3.10.2.1. Federal Laws, Regulations, and Policies

USEPA California Toxics Rule (Title 40 Code of Federal Regulations (CFR) 131). In 2000, the U.S. Environmental Protection Agency (USEPA) promulgated numeric water quality criteria for priority toxic pollutants and other water quality standards provisions to be applied to waters in California to protect human health and the environment. Under Clean Water Act section 303(c)(2)(B), the USEPA requires states to adopt numeric water quality criteria for priority toxic pollutants for which the USEPA has issued criteria guidance, and the presence or discharge of which could reasonably be expected to interfere with maintaining designated uses. These federal criteria are legally applicable in California for inland surface waters, enclosed bays, and estuaries.

Resource Conservation and Recovery Act (RCRA) (42 U.S.C. § 6901 et seq.). The RCRA authorizes the USEPA to control hazardous waste from "cradle to grave" (generation, transportation, treatment, storage, and disposal). RCRA's Federal Hazardous and Solid Waste Amendments from 1984 include waste minimization and phasing out land disposal of hazardous waste as well as corrective action for releases. The Department of Toxic Substances Control is the lead State agency for corrective action associated with RCRA facility investigations and remediation. Under RCRA, decommissioned solar panels are treated as hazardous waste.

Toxic Substances Control Act (TSCA) (15 U.S.C. § 2601 2692). The TSCA authorizes the USEPA to require reporting, record-keeping, testing requirements, and restrictions related to chemical substances and/or mixtures. It also addresses production, importation, use, and disposal of specific chemicals, such as polychlorinated biphenyls (PCBs), asbestos-containing materials, lead-based paint, and petroleum.

Comprehensive Environmental Response, Compensation, and Liability Act (42 U.S.C. § 9601 et seq.). CERCLA, including the Superfund program, was enacted by Congress on December 11, 1980, and is administered by the USEPA. This law provided broad federal authority to respond directly to releases or threatened releases of hazardous substances that may endanger public health or the environment. CERCLA established requirements concerning closed and abandoned hazardous waste sites; provided for liability of persons responsible for releases of hazardous waste at these sites; and established a trust fund to provide for cleanup when no responsible party could be identified. CERCLA also enabled the revision of the National Contingency Plan (NCP). The NCP provided the guidelines and procedures needed to respond to releases and threatened releases of hazardous substances, pollutants, and/or contaminants. The NCP also established the National Priorities List (NPL). CERCLA was amended by the Superfund Amendments and Reauthorization Act (SARA) on October 17, 1986.

Clean Water Act/SPCC Rule (33 U.S.C. § 1251 et seq.), formerly the Federal Water Pollution Control Act of 1972. As part of the CWA, the U.S. EPA oversees and enforces the Oil Pollution Prevention regulation contained in Title 40 of the Code of Federal Regulations, Part 112, which is often referred to as the "SPCC rule" because the regulations describe the requirements for facilities to prepare, amend, and implement Spill Prevention, Control, and Countermeasure (SPCC) Plans. A facility is subject to SPCC regulations if a single oil (or gasoline, or diesel fuel) storage tank has a capacity greater than 660 gallons, or the total above ground oil storage capacity exceeds 1,320 gallons, or the underground oil storage capacity exceeds 42,000 gallons, and if, due to its location, the facility could reasonably be expected to discharge oil into or upon the "Navigable Waters" of the United States.

Occupational Safety and Health Administration. OSHA is the agency responsible for assuring worker safety in the handling and use of chemicals in the workplace. The federal regulations pertaining to worker

safety are contained in Title 29 of the Code of Federal Regulations, as authorized in the Occupational Safety and Health Act of 1970. They provide standards for safe workplaces and work practices, including standards relating to hazardous materials handling. At sites known or suspected to have soil or ground-water contamination, construction workers must receive training in hazardous materials operations and a site health and safety plan must be prepared. The health and safety plan establishes policies and procedures to protect workers and the public from exposure to potential hazards at the contaminated site.

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Department of Transportation, CFR Title 49, Subtitle B. The United States Department of Transportation (USDOT) is the primary federal agency responsible for regulating the proper handling and storage of hazardous materials during transportation (49 CFR. §§ 171-177 and 350-399).

National Fire Protection Association (NFPA) 855. NFPA 855 (Standard for the Installation of Stationary Energy Storage Systems) provides minimum requirements for mitigation of hazards associated with Energy Storage Systems (ESS). The design, construction, and installation of ESS and related equipment shall comply with NFPA 855 Chapter 4 and as supplemented or modified by the technology-specific provisions in Chapters 9 through 13. Chapter 4 includes, but is not limited to, provisions regarding gas release, testing requirements, hazard mitigation analysis, availability of operation and maintenance manuals, and staff training. UL 9540 falls under the NFPA 855 and addresses key issues associated with energy storage including battery system safety, functional safety, environmental performance, containment, and fire detection and suppression. The UL 9540A test is a method to evaluate thermal runaway fire propagation in an ESS. ESS plans and specifications should be submitted to the jurisdictional agency.

Federal Aviation Administration (FAA). The Federal Aviation Regulation (49 CFR Part 77) establishes standards and notification requirements for objects that may impact navigable airspace. Airports and navigable airspace that are not administered by the Department of Defense are under the jurisdiction of the FAA. This regulation includes: (a) FAA notification requirements for proposed construction, or the alteration of existing structures, that meet specific standards; (b) the standards used to determine obstructions to air navigation, and navigational and communication facilities; (c) the process for aero-nautical studies of obstructions to air navigation or navigation facilities or equipment; and (d) the process to petition the FAA for discretionary review of determinations, revisions, and extensions of determinations.

With regard to aviation safety, Subpart B, Section 77.9 of the regulations indicates that for areas around airports having runways longer than 3,200 feet, if any construction that is more than 200 feet above ground level or results in an object penetrating an imaginary surface extending outward and upward at a ratio of 100 to 1 from a public or military airport runway out to a horizontal distance of 20,000 feet (approximately 3.78 miles), then an applicant is required to submit FAA Form 7460-1, Notice of Proposed Construction or Alteration, to the Manager, Air Traffic Division, FAA Regional Office having jurisdiction over the area for review and approval of the Project (FAA, 2018).

Currently, there are no defined thresholds for project size, type, or distance from the airport available that automatically trigger FAA airspace review with respect to solar glare on aviation safety (FAA, 2018). However, proximity to the airport and solar technology are two indicators of likely FAA interest in a solar project (FAA, 2018). According to a FAA technical guidance document, it is the responsibility of local governments, solar developers, and other stakeholders in the vicinity of an airport to check with the airport sponsor and the FAA to ensure there are no potential safety or navigational problems with a proposed solar facility, especially if it is a large facility. Sponsors should notify the FAA when such activities are proposed, and the FAA needs to participate in public meetings or permitting processes.

Federal Land Policy and Management Act of 1978 (43 U.S.C. § 1701 et seq.) and Title 43 Code of Federal Regulations (43 CFR § 9212.2). BLM is authorized and required to manage federal lands, which includes providing funding, resources, and regulations for prevention and protection of wildland fires. In California,

BLM establishes seasonal and year-round fire prevention orders and restrictions to assist with wildland fire prevention efforts throughout federal public lands within the California Desert District (CDD), which consists of Inyo, Imperial, Kem, Mono, Los Angeles, San Bernardino, San Diego and Riverside Counties.

Federal Wildland Fire Management Policy. On BLM-administered lands in the California Desert, the BLM implements Federal Wildland Fire Management policies and objectives in coordination with state and other federal agencies as part of the California Desert Interagency Fire Management Organization. The Federal Wildland Fire Management Policy was developed by a federal multi-agency group that establishes consistent and coordinated fire management policy across multiple federal jurisdictions. The policy acknowledges the essential role of fire in maintaining natural ecosystems, but also prioritizes firefighter and public safety first in every fire management activity and focuses on risk management as a foundation for all fire management activities. The policy promotes basing responses to wildland fires on approved Fire Management Plans and land management plans, regardless of ignition source or the location of the ignition.

National Electric Safety Code (NESC) and American National Standards Institute (ANSI) Guidelines. A variety of line and tower clearance standards are used throughout the electric transmission industry. Nationally, most transmission line owners follow the NESC rules or ANSI guidelines, or both, when managing vegetation around transmission system equipment. The NESC deals with electric safety rules, including transmission wire clearance standards, whereas the applicable ANSI code deals with the practice of pruning and removal of vegetation.

3.10.2.2. State Laws, Regulations, and Policies

California Environmental Protection Agency. The California Environmental Protection Agency (Cal EPA) was created in 1991, which unified California's environmental authority in a single cabinet-level agency and brought the ARB, SWRCB, RWQCBs, Integrated Waste Management Board (IWMB), Department of Toxic Substance Control (DTSC), OEHHA, and DPR under one agency. These agencies were placed within the Cal/EPA "umbrella" for the protection of human health and the environment and to ensure the coordinated deployment of state resources. Their mission is to restore, protect and enhance the environment, to ensure public health, environmental quality, and economic vitality.

California Hazardous Waste Control Law. The California Hazardous Waste Control Law (HWCL) is administered by Cal EPA to regulate hazardous wastes. While the HWCL is generally more stringent than RCRA, until the EPA approves the California program, both the state and federal laws apply in California. The HWCL lists 791 chemicals and about 300 common materials that may be hazardous; establishes criteria for identifying, packaging and labeling hazardous wastes; prescribes management controls; establishes permit requirements for treatment, storage, disposal and transportation; and identifies some wastes that cannot be disposed of in landfills.

California Department of Toxic Substance Control (DTSC). DTSC is a department of Cal EPA and is the primary agency in California that regulates hazardous waste, cleans-up existing contamination, and looks for ways to reduce the hazardous waste produced in California. DTSC regulates hazardous waste in California primarily under the authority of RCRA and the California Health and Safety Code. Other laws that affect hazardous waste are specific to handling, storage, transportation, disposal, treatment, reduction, cleanup, and emergency planning. Recent revisions to DTSC hazardous waste regulations (revisions in Cal. Code Regs tit. 22, div. 4.5, sections and articles in chapters 10, 11, and 23) allow PV solar panels in California to be managed as "universal waste" instead of under the HWCL, beginning on January 1, 2021. By being classified as universal waste, PV solar panels will now be subject to a streamlined set of standards that are intended to ease regulatory burden and promote recycling. The revised regulations also include requirements for reporting and notifications to DTSC, training, handling, response to breakage and releases, containment and record keeping.

California Fire Code (CFC). Chapter 12 of the CFC provides provisions related to the installation, operation and maintenance of energy systems used for generating or storing energy to safeguard the public health, safety and general welfare from the hazards of fire, explosion or dangerous conditions in new and existing buildings, structures and premises, and to provide safety and assistance to fire fighters and emergency responders during emergency operations. Section 1207 of the 2022 CFC provides requirements for Electrical ESS. Battery Energy Storage Systems (BESS) greater than 600 kWh are required by the CFC to be UL (Underwriter's Laboratory) listed and have full-scale testing using the testing standard UL9540A. UL9540A tests a variety of fire and life safety features on the battery including thermal runaway, gas venting, and fire propagation.

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Porter-Cologne Water Quality Act. The Porter-Cologne Water Quality Act is a state law that provides a comprehensive water quality management system for the protection of California waters. The act designates the SWRCB as the ultimate authority over state water rights and water quality policy, and also established nine RWQCBs to oversee water quality on a day-to-day basis at the local and regional level. The Colorado River Basin RWQCB is responsible for protecting the beneficial uses of surface water and groundwater resources in the Project area. The Colorado River Basin RWQCB adopted its Basin Plan (Water Quality Control Plan for the Colorado River Basin Region) in 1993 and amended it in 2019. This Basin Plan set forth implementation policies, goals, and water management practices in accordance with the Porter-Cologne Water Quality Control Act. The Basin Plan establishes both numerical and narrative standards and objectives for water quality aimed at protecting aquatic resources. Project discharges to surface waters are subject to the regulatory standards set forth in applicable regional basin plans, which prevent the discharge of hazardous materials into waters of the State.

Unified Program. In 1993, the State (Cal-EPA) was mandated by Senate Bill 1082 (Health and Safety Code Chapter 6.11) to establish a "unified hazardous waste and hazardous materials management" regulatory program (Unified Program). The Unified Program consolidates, coordinates, and makes consistent the administrative requirements, permits, inspections, and enforcement activities of the following six environmental and emergency response programs: Hazardous Materials Release Response Plans and Inventories (Hazardous Material Business Plan [HMBP]), California Accidental Release Prevention (CalARP) Program, Underground Storage Tank Program, Aboveground Petroleum Storage Act, Hazardous Waste Generator and Onsite Hazardous Waste Treatment (tiered permitting) Programs, and California Uniform Fire Code: Hazardous Material Management Plans and Hazardous Material Inventory Statements. The Unified Program is implemented at the local level by local government agencies (CUPA), implement all the Unified Program elements and serve as a local contact for area businesses. The CUPA for the area is the Riverside County Department of Environmental Health Hazardous Materials Branch. The CUPA also oversees the two Participating Agencies (Corona Fire and Riverside Fire) that implement hazardous materials programs within the County.

The California Public Resources Code (CPRC) Sections 4292 and 4293. CPRC sections 4292 and 4293 specify requirements related to fire protection and prevention in transmission line corridors. CPRC Section 4292 states that any person that owns, controls, operates, or maintains any electrical transmission or distribution line has primary responsibility for fire protection of such areas, and shall maintain around and adjacent to any pole or tower which supports a switch, fuse, transformer, lightning arrester, line junction, or dead end or corner pole, a firebreak which consists of a clearing of not less than 10 feet in each direction from the outer circumference of such a pole or tower (CPRC § 4292). CPRC § 4293 states that any person that owns, controls, operates, or maintains any electrical transmission or distribution line upon any mountainous land, or in forest-covered land, or grass covered land which has primary responsibility for the fire protection of such area, shall maintain a clearance of the respective distances. **California Department of Industrial Relations, Division of Occupational Safety and Health Administra-tion.** The California Occupational Safety and Health Administration (Cal/OSHA) is the primary agency responsible for worker safety in the handling and use of chemicals in the workplace. Cal/OSHA standards are generally more stringent than federal regulations. The employer is required to monitor worker exposure to listed hazardous substances and notify workers of exposure (8 CCR Sections 337 340). The regulations specify requirements for employee training, availability of safety equipment, accident-prevention programs, and hazardous substance exposure warnings.

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California Strategic Fire Plan. The Strategic California Fire Plan was finalized in June 2010 and directs each CAL FIRE Unit to prepare a locally specific Fire Management Plan. In compliance with the California Fire Plan, individual CAL FIRE units are required to develop Fire Management Plans for their areas of responsibility. These documents assess the fire situation within each of CAL FIRE's 21 units and six contract counties. The plans include stakeholder contributions and priorities and identify strategic areas for prefire planning and fuel treatment, as defined by the people who live and work with the local fire problem. The plans are required to be updated annually.

Assembly Bill 203. Adds section 6709 to the Labor Code regarding occupational safety and health related to Valley Fever. This section applies to a construction employer with employees working at work sites in counties where Valley Fever is highly endemic, including, but not limited to, the Counties of Fresno, Kern, Kings, Madera, Merced, Monterey, San Joaquin, San Luis Obispo, Santa Barbara, Tulare, and Ventura, where work activities disturb the soil. This includes, but is not limited to, digging, grading, or other earth moving operations, or vehicle operation on dirt roads, or high winds. Highly endemic means that the annual incidence rate of Valley Fever is greater than 20 cases per 100,000 persons per year. An employer subject to this section shall provide effective awareness training on Valley Fever to all employees by May 1, 2020, and annually by that date thereafter, and before an employee begins work that is reasonably anticipated to cause exposure to substantial dust disturbance. Substantial dust disturbance means visible airborne dust for a total duration of one hour or more on any day. The training may be included in the employer's injury and illness prevention program training or as a standalone training program. Riverside County's Valley Fever incidence rates are currently not high enough to be considered highly endemic and require Valley Fever awareness training under AB 203.

3.10.2.3. Local Laws, Regulations, and Policies

Riverside County General Plan. The intent of the Safety Element of the Riverside County General Plan is to reduce death, injuries, property damage, and economic and social impact from hazards. The following policies included in the Safety Element generally relate to the proposed Project with respect to hazards and hazardous materials (Riverside County, 2021).

- Policy S 5.1. Develop and enforce construction and design standards that ensure that proposed development incorporates fire prevention features through the following:
 - All proposed development and construction within Fire Hazard Severity Zones shall be reviewed by the Riverside County Fire and Building and Safety departments.
 - All proposed development and construction shall meet minimum standards for fire safety as defined in the Riverside County Building or County Fire Codes, or by County zoning, or as dictated by the Building Official or the Transportation Land Management Agency based on building type, design, occupancy, and use.
 - In addition to the standards and guidelines of the California Building Code and California Fire Code fire safety provisions, continue to implement additional standards for high-risk, high occupancy, dependent, and essential facilities where appropriate under the Riverside County Fire Code (Ordinance No. 787) Protection Ordinance. These shall include assurance that structural and nonstructural archi-

tectural elements of the building will not impede emergency egress for fire safety staffing/personnel, equipment, and apparatus; nor hinder evacuation from fire, including potential blockage of stairways or fire doors.

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- Proposed development and construction in Fire Hazard Severity Zones shall provide secondary public access, in accordance with Riverside County Ordinances.
- Proposed development and construction in Fire Hazard Severity Zones shall use single loaded roads to enhance fuel modification areas, unless otherwise determined by the Riverside County Fire Chief.
- Proposed development and construction in Fire Hazard Severity Zones shall provide a defensible space or fuel modification zones to be located, designed, and constructed that provide adequate defensibility from wildfires.
- Policy S 5.6. Demonstrate that the proposed development can provide fire services that meet the minimum travel times identified in Riverside County Fire Department Fire Protection and EMS Strategic Master Plan.
- Policy S 7.3. Require commercial businesses, utilities, and industrial facilities that handle hazardous materials to: install automatic fire and hazardous materials detection, reporting and shut-off devices; and install an alternative communication system in the event power is out or telephone service is saturated following an earthquake.
- Policy S 7.14. Regularly review and clarify emergency evacuation plans for dam failure, inundation, fire and hazardous materials releases.
- Policy S 7.15. Develop a blueprint for managing evacuation plans, including allocation of buses, designation and protection of disaster routes, and creation of traffic control contingencies.

The proposed Project would be consistent with County policies and requirements for fire safety and handling of hazardous materials and would comply with the requirements of the applicable federal and State regulations.

County of Riverside Department of Environmental Health (DEH). The DEH is responsible for protecting the health and safety of the public and the environment of Riverside County by assuring that hazardous materials are properly handled and stored. The DEH accomplishes this through inspection, emergency response, site remediation, and hazardous waste management services. The County of Riverside DEH also acts as the CUPA for Riverside County and is responsible for reviewing Hazardous Materials Business Plans. A CUPA is a local agency that has been certified by Cal EPA to implement state environmental programs related to hazardous materials and waste. The specific responsibilities of the DEH include the following:

- Inspecting hazardous material handlers and hazardous waste generators to ensure full compliance with laws and regulations.
- Implementing CUPA programs for the development of accident prevention and emergency plans, proper installation, monitoring, and closure of underground storage tanks and the handling, storage and transportation and disposal of hazardous wastes.
- Providing 24-hour response to emergency incidents involving hazardous materials or wastes in order to protect the public and the environment from accidental releases and illegal activities.
- Overseeing the investigation and remediation of environmental contamination due to releases from underground storage tanks, hazardous waste containers, chemical processes or the transportation of hazardous materials.
- Conducting investigations and taking enforcement action as necessary against anyone who disposes of hazardous waste illegally or otherwise manages hazardous materials or wastes in violation of federal, state, or local laws and regulations.

3.10.3. Methodology for Analysis

The hazardous materials analyzed include those potentially existing on the site and those that would be used as part of Project construction, operations and maintenance, and decommissioning. Potential existing hazardous materials hazards were assessed based on review of information in state hazard databases and maps for the Project area.

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Some hazardous materials would be used on a short-term basis during construction and decommissioning. Others would be stored on site for use during operations and maintenance. Therefore, this analysis examines the choice and amount of chemicals to be used, how the Applicant would use the chemicals, how they would be transported to the facility, and how the Applicant plans to store the materials on site.

Potential and existing physical hazards such as wildfire, aviation hazards, valley fever, and unexploded ordnance, are assessed based on review of information from online sources and from local and state agency databases and maps for the Project area and are analyzed based on proposed Project construction, operation and maintenance, and decommissioning footprints and potential areas of impact.

3.10.4. CEQA Significance Criteria

The criteria used to determine the significance of potential hazards and hazardous materials impacts are based on Appendix G of the CEQA Guidelines. The proposed Project would result in a significant impact under CEQA related to hazards and hazardous materials if the Project would:

- Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials (see Impact HAZ-1).
- Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment (see Impact HAZ-2).
- Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would create a significant hazard to the public or the environment (see Impact HAZ-3).
- Result in a safety hazard or excessive noise for people residing or working in the project area within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport (see Impact HAZ-4).
- Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan (see Impact HAZ-5).
- Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires (see Impact HAZ-6).

The County of Riverside's Environmental Assessment Form includes additional significance criteria, which were also used in the analysis. Almost all of the County of Riverside criteria for the issue area of Hazards and Hazardous Materials are identical to existing the CEQA criteria for that issue area, except for several criteria related to airports and aviation hazards. The additional criteria differing from the above CEQA criteria that indicate that a project could have potentially significant impacts are:

- It would result in an inconsistency with an Airport Master Plan (see Impact HAZ-4).
- It would require review by the Airport Land Use Commission (see Impact HAZ-4).

The following CEQA significance criteria from Appendix G and County of Riverside were not included in the analysis and are not discussed further beyond this summary:

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• Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.

No schools are located within one-quarter mile of the site. The proposed Project would not use acutely hazardous materials and the limited amounts of hazardous materials (such as fuels and greases) used during construction and operation and maintenance would be used, stored, transported, and disposed of following all applicable laws and regulations. Therefore, the Project would not result in hazardous materials impacts to existing or proposed schools.

• For a project within the vicinity of a private airstrip, or heliport, would the project result in a safety hazard for people residing or working in the project area?

There are no private airstrips or heliports in the vicinity of the Project, therefore, construction and operation of the Project would not result in adverse aviation safety hazards related to private airstrips or heliports.

3.10.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to hazards and hazardous materials. Public concerns raised during scoping involved health effects from the increase in wind-blown dust, which carries silica, pollens, and other chemicals/ pollutants (herbicides); concerns relating to Valley Fever; health hazards related to EMF; increased risk of wildfire due to presence of power lines; contamination from chemicals used for vegetation management; and concerns regarding hazardous materials releases if/when the solar panels are broken.

Project decommissioning impacts would be the same as those described under Project construction.

Impact HAZ-1. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.

Less THAN SIGNIFICANT WITH MITIGATION, CONSTRUCTION AND DECOMMISSIONING. Construction of the Project would involve the use of small amounts of hazardous materials. No extremely hazardous substances (i.e., those governed pursuant to Title 40, Part 335 of the Code of Federal Regulations) are anticipated to be produced, used, stored, transported, or disposed of as a result of Project construction. Hazardous substances would include fuels and greases to fuel and service construction equipment and small quantities of chemicals required for construction. Onsite fuel tanks no larger than 1,000 gallons may be used to fuel construction equipment and would comply with all applicable regulations. Trucks and construction vehicles would be serviced from off-site facilities. Helicopters may be used during construction; however, helicopter refueling will take place off site, likely at the Desert Center Airport. Hazardous materials storage, use, transportation, and disposal procedures would be dictated the HMMP developed prior to construction and by local, state, and federal regulations.

Hazardous liquids would be stored in secured areas (fenced or locked building on the solar site) and all hazardous material storage containers would be properly labeled to indicate the contents of the container. Hazardous materials would be stored only in designated areas on impervious surfaces, on plastic groundcovers, or with secondary containment, to prevent spills or leaks from infiltrating the ground. Material Safety Data Sheets for all applicable materials present on site would be made readily available to on-site personnel. If quantities exceed regulatory thresholds, the Applicant would ensure that storage is undertaken in compliance with the SPCC Rule and a HMBP, which would be developed prior to construction. The use, storage, transport, and disposal of hazardous materials used in construction of the facility

would be carried out in accordance with current applicable regulations and the Project-specific HMMP (IP Easley, 2023, Appendix W). Implementation of these procedures and plans and compliance with applicable local, state, and federal regulations would minimize the risk of adverse effects from use, disposal, and transport of hazardous materials to less-than-significant levels.

The Project may use a variety of PV technologies including, but not limited to, cadmium telluride panels, crystalline silicon panels, or copper indium gallium diselenide panels. None of the panels being considered contain materials that are classified as hazardous wastes. The chemicals within PV modules are highly stable and would not be available for release to or interaction with the environment. If a panel is broken during construction or operation, the pieces would be cleaned up completely and returned to the manufacturer for recycling. At the end of the Project's useful life, solar panels would be decommissioned and dismantled per an agency-approved Closure and Decommissioning Plan. Upon ultimate decommissioning, the panels will be suitable for recycling or reuse, and Project decommissioning would be designed to optimize such salvage as circumstances allow and in compliance with all local, State, and federal laws and regulations in effect at the time of decommissioning. With current technology, although very expensive, approximately 90% of a PV system is recyclable with the glass, metallic, and PV film components separated by mechanical and chemical processes for remanufacturing into new panels or other products (Westcoast Solar Energy, 2023; Peplow, 2022). Currently, approximately 80% of a silicon panel's mass including the aluminum frame and glass covers is easily recycled (Peplow, 2022).

Throughout construction, waste materials would be sorted on site and transported to appropriate licensed waste management facilities. Non-hazardous construction materials that cannot be reused or recycled would be disposed of at county landfills. Hazardous waste and electronic waste would not be placed in a landfill but would be transported to a hazardous waste handling facility (e.g., electronic-waste recycling). All contractors and workers would be educated about waste sorting, appropriate recycling storage areas, and how to reduce landfill waste.

During construction, herbicides may be applied to control weed growth. If needed, herbicides to control the spread of invasive weeds following construction disturbance would likely be part of an integrated pest management strategy. Weed management also would be performed in accordance with an approved Weed Management Plan. Use of herbicides would occur in accordance with all recommended application procedures as identified on product labels. If herbicides or pesticides are required to be used on BLM land, BLM-approved herbicides would be used to control weed populations. The process for treatments would be characterized in a Pesticide Use Proposal that would be approved by the BLM. Although the Project would not contain a residential or commercial component that would potentially directly expose people to herbicide use. Use of any herbicides for weed control would follow all local, state, and federal guidelines, and on BLM-administered land would follow the BLM-approved Weed Management Plan and Pesticide Use Proposal. Therefore, the application of herbicides during construction would not have an adverse effect on workers or the public and would result in a less-than-significant impact.

The Project site is within the historic World War II DTC/C AMA training camp/maneuver area where military exercises with tanks and troops were conducted, including practice artillery fire, weapons training, and land mine placement and removal. During construction, maintenance, and closure and decommissioning activities associated with the proposed Project, ground disturbance could unearth unexploded World War II-era munitions (UXO and MEC), including conventional and unconventional land mines, personnel mines, shells, mortars, and bullets, the detonation of which would pose a safety risk to the workers. For example, surface and shallow sub-surface UXO could be disturbed by vehicles, walkers, and excavation using shovels or similar hand tools, and deeper sub-surface UXO could be disturbed by the earth movement and excavation processes required for development of the Project. Implementation of Mitigation Measure HAZ-1 (UXO Identification, Training and Reporting Plan) would formalize UXO training, investigation, removal, and disposal to ensure that potential UXO impacts would be less than significant.

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Decommissioning impacts are anticipated to be similar to those occurring during construction as described above. The actual impacts would depend on the proposed decommissioning action and final use of the site.

Less THAN SIGNIFICANT, OPERATIONS AND MAINTENANCE. During operation and maintenance of the proposed Project, small quantities of a variety of hazardous materials would be transported to the site and used and stored on site for miscellaneous, general maintenance activities. Chemicals would be stored in appropriate chemical storage facilities with secondary containment, if necessary. Hazardous materials would be transported, stored, and disposed of as required by the HMMP (IP Easley, 2023, Appendix W). Because each of the substation transformers would contain mineral oil, the substation would be designed to accommodate an accidental spill of transformer fluid by the use of containment-style mounting. Herbicides may be used for weed control. If quantities exceed regulatory thresholds, SPCC Plan and HMBP and associated emergency response plan and inventory would be prepared and implemented during operation. Preparation and compliance with the required SPCC and HMBP, if necessary, implementation of the HMMP, and compliance with applicable state and federal regulations would minimize the risk of damage or injury from use, disposal, and transport of hazardous materials ensure that impacts remain less than significant during the Project's operation and maintenance.

Mitigation Measures for Impact HAZ-1

MM HAZ-1 UXO Identification, Training, and Reporting Plan. See Section 3.10.9 (Mitigation Measures) for full text.

Significance After Mitigation

This impact would be less than significant with implementation of mitigation.

Impact HAZ-2. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment.

Less THAN SIGNIFICANT WITH MITIGATION, CONSTRUCTION AND DECOMMISSIONING. As noted above, construction of the Project would involve the use of small amounts of hazardous materials, such as fuels and greases to fuel and service construction equipment, and small amounts of chemicals needed during construction. Improper handling and storage of these hazardous materials could result in the accidental release if not managed appropriately. The small quantities of chemicals to be stored at the Project during construction would be stored in their appropriate containers in enclosed and secured locations.

The HMMP includes and requires spill prevention and response training, and procedures to follow in the event of a spill (IP Easley, 2023, Appendix W). During construction, spill kits and materials that can be readily deployed would be stored at staging areas and mobile spill kits would be available for use in any fueling operations. Each construction crew would have sufficient supplies of absorbent and barrier materials on hand to allow the rapid containment and recovery of any spills. The construction contractor would immediately notify the Project operator, and the Project operator's Construction Supervisor and environmental monitor of any spills and/or clean-ups, regardless of the size of the spill. Small spills or leaks (less than 5 gallons) would be dealt with within 24 hours of the incident and would be documented in the spill report form. If a spill on BLM-administered land is between 5 and 50 gallons, the BLM contact would be given a courtesy call within a few hours of the incident. If the spill is larger than 50 gallons, the appropriate authorities/agencies would be notified. Should a major spill occur on BLM land, the Field

Office would be notified within 24 hours. All incidents on BLM-administered land would be properly recorded and addressed in accordance with BLM requirements The Project operator would determine environmental reporting requirements and would notify appropriate environmental agencies.

A Stormwater Pollution Prevention Plan (SWPPP) or SWPPP equivalent document would be prepared by a qualified engineer or erosion control specialist and would be implemented before and during construction. The SWPPP would be designed to reduce potential impacts related to erosion and surface water quality during construction activities and throughout the life of the Project. It would include Project information and best management practices (BMP). The BMPs would include storm water runoff quality control measures, concrete waste management, storm water detention, watering for dust control, and construction of perimeter silt fences, as needed.

The Project would implement the SWPPP (or SWPPP equivalent document) and the HMMP, and would comply with all applicable local, state and federal regulations to reduce the potential that spills or leaks of hazardous materials would occur. In addition, if quantities exceed regulatory thresholds, the Project would develop a SPCC Rule and a HMBP which would include additional hazardous material requirements. Implementation of these plans and compliance with local, state, and federal regulations regarding hazardous materials use, storage, and disposal reduces potential adverse effects form spills or leaks to a less-than-significant level.

As noted above in Section 3.10.1.2, Valley Fever (coccidioidomycosis) is considered endemic in California and *Coccidioides* fungus are present in the arid desert regions of California, including Riverside County. Riverside County has increasing numbers of cases and in 2021 reported 471-a high for the last decade of 455 cases for and incidence rate of 19.218.7 per 100,000 population, which is approaching approached the criteria of 20 incidences per 100,000 required to be determined endemic. There is a potential that construction activities such as grading, excavation, and construction vehicle traffic, could loosen and stir up soil containing *Coccidioides* fungus spores, exposing workers and the public to contracting Valley Fever. Construction activities for the Project would be subject to stringent dust control requirements (including SCAQMD Rules 402 and 403). Implementation of Mitigation Measures AQ-1 (Fugitive Dust Control Plan) and HAZ-2, (Worker Environmental Awareness Program) would reduce the potential for workers and the public to contract Valley Fever due to exposure to substantial concentrations of dust which may contain *Coccidioides* fungus spores to a less-than-significant level.

Less THAN Significant with Mitigation, Operations and Maintenance. If regulatory thresholds are exceeded for storage of hazardous materials during Project operation, a SPCC would be prepared and implemented, as required by the SPPC Rule. BMPs would be employed in the use and storage of all hazardous materials within the Project, including the use of containment systems in appropriate locations. Appropriately sized and supplied spill containment kits would be maintained on-site in the O&M area, and the Project's employees would be trained on spill prevention, response, and containment procedures. The chemical storage area would not be located immediately adjacent to any drainage. The Project HMMP requires spill prevention and response training for employees handling hazardous material, best management practices for handling and transporting liquids, requires spill clean-up equipment on site, and monitoring and inspecting of vehicles for leaks. In addition, if an HMBP if required, an associated emergency response plan and inventory would be prepared and implemented. Therefore, there would be a less-than-significant impact due to the use, storage, and disposal of the small amounts of hazardous materials anticipated to be used during Project operation. The likelihood to overheat or ignite is increased if the batteries are poorly packaged, damaged, or exposed to a fire or a heat source.

The Project would include operation an up to 650 MW BESS that would consist of batteries housed in storage containers. Potential hazards related to the BESS could include fire, gaseous build up, explosion, and hazardous materials. Lithium metal batteries contain potentially toxic metals, such as copper and nickel, and organic chemicals, like toxic and flammable electrolytes. Once ignited, the resulting fires can

be especially difficult to extinguish as temperatures can rapidly increase to up to 500 degrees Celsius (932 degrees Fahrenheit) as a result of interactions between a battery's cathodes and anodes, and water is an ineffective extinguisher. The likelihood to overheat or ignite is increased if the batteries are poorly packaged, damaged, or exposed to a fire or a heat source (79 Fed. Reg. 46011, 46032, Aug. 6, 2014).

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As noted previously, the BESS would be designed, packaged, constructed, and operated in accordance with applicable industry best practices and regulatory requirements, including, but not limited to, National Fire Protection Association 855 (Standard for the Installation of Stationary Energy Storage Systems) and Section 1206 of the California Fire Code and if applicable, certified to UL 9540. The configuration of the safety system would be determined based on site-specific environmental factors and associated fire response strategy and would contain a safety system that would be triggered automatically when the system senses abnormal conditions and/or imminent fire danger. A fire safety system would be provided within each on-site battery enclosure. Components of the system could include a fire panel, aspirating hazard detection system, smoke/heat detector, strobes/sirens, and suppression tanks. If applicable, the BESS would be tested to UL 9540A, which would confirm that the system would self-extinguish without active fire-fighting measures. Additionally, Mitigation Measure FIRE-1 (Fire Safety) would require components specific to fire response and safety at the BESS be included in the proposed Fire Management and Prevention Plan for the Project. Implementation and compliance with these design and safety regulations and MM FIRE-1 would reduce the impact to a less-than-significant level.

Mitigation Measures for Impact HAZ-2

- **MM AQ-1 Fugitive Dust Control Plan.** See full text in Section 3.4, Air Quality.
- MM FIRE-1 Fire Safety. See full text in Section 3.19, Wildfire.
- MM HAZ-2 Worker Environmental Awareness Program. See full text in Section 3.10.9 (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant with implementation of mitigation.

Impact HAZ -3. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would create a significant hazard to the public or the environment.

Less THAN SIGNIFICANT WITH MITIGATION, CONSTRUCTION AND DECOMMISSIONING. As noted above, the Project site is located within the WWII DTC/C AMA where maneuvers included weapons training, firing exercises, and laying out and removing landmine fields. Therefore, there is a potential to encounter UXO, MEC, or MD during construction activities. Implementation of proposed Mitigation Measure HAZ-1 (UXO Identification, Training, and Reporting Plan) would require UXO training, investigation, removal, and disposal to ensure that potential UXO impacts would be less than significant.

Phase and Phase II ESAs conducted for the private parcels of the proposed Project identified several potential contamination sources on Project private parcels and included preliminary soil testing for petroleum hydrocarbons (TPHs), pesticides (OCPs), VOC, and metals.

No known hazardous material or environmentally contaminated sites have been identified at the <u>Project</u> site according to EnviroStor and GeoTracker, as of February 2023. However, there is current and historical agricultural use on properties immediately adjacent to the Project site. Pesticides used at these adjacent sites may have spread to the nearby Project areas due to improper application, overspray, or by surface runoff. <u>Although limited testing of the private agricultural parcels did not reveal any pesticide (OCP)</u>

<u>contamination (Stantec, 2024), residual Pp</u>esticide-contaminated soil may be encountered during Project ground-disturbing activities for solar components and associated facilities near current and former agricultural areas. <u>Additionally, petroleum hydrocarbon contaminated soil may be encountered near current and former fuel ASTs.</u> Implementation of mitigation measures HAZ-2 (Worker Environmental Awareness Program) and HAZ-3 (Soil Management Plan) would ensure that workers and the public are not adversely affected by pesticide <u>or petroleum hydrocarbon</u> contaminated soil.

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NO IMPACT, OPERATIONS AND MAINTENANCE. Operation and maintenance activities would not involve significant ground disturbance or excavation activities and would therefore have no potential to encounter UXO, MEC, or MD nor pesticide contaminated soils.

Mitigation Measures for Impact HAZ-3

- MM HAZ-1 UXO Identification, Training, and Reporting Plan. See full text in Section 3.10.9 (Mitigation Measures).
- MM HAZ-2 Worker Environmental Awareness Program. See full text in Section 3.10.9 (Mitigation Measures).
- **MM HAZ-3** Soil Management Plan. Significance After Mitigation. See full text in Section 3.10.9 (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant with implementation of proposed mitigation measures.

Impact HAZ-4. Result in a safety hazard or excessive noise for people residing or working in the Project area for a project within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport.

LESS THAN SIGNIFICANT. The proposed Project is located within 2 miles of the Desert Center Airport. The Desert Center Airport was purchased by the Chuckwalla Valley Raceway and is no longer included in the Riverside County Circulation Element. The Project site is not located within the Airport Influence Area Boundary nor any of the airport Compatibility Zones; however, it is located just outside of these areas (RCALUC, 2004). For uses in Compatibility Zone E, Riverside County Airport Land Use Commission review is required for objects greater than 100 feet tall. Because the Desert Center Airport is no longer part of the General Plan and the Project is not within the 2004 RCALUC influence areas, this review is not required.

Additionally, the only components of the solar facility that would be potentially over 100 feet tall are the gen-tie line structures, which would be on average 120 feet tall, with a maximum height of 199 feet. The gen-tie line structures would be approximately 2 to 2.5 miles south and southwest of the single east-west trending runway. The closest Project element would be approximately 1 mile northwest from the runway. Impacts to the airport due to the Project structures would be less than significant. However, low level military training flight paths are located crossing and in the vicinity of the Project and the gen-tie line structures could potentially represent an aviation hazard to low level training flights. Depending on the outcome of the BLM-DoD consultation, infrared obstruction lighting may be installed on structures over 180 feet high that are located in areas where the new structures would be taller than existing nearby structures. Compliance with BLM-DoD required lighting would reduce potential impacts to low level training flights to less than significant.

The PV solar panels for the proposed Project would not create significant adverse impacts from reflection and glare (see Section 3.2, Aesthetics). The Project would result in less-than-significant impacts associated

with reflection and glare impacts to the Desert Center Airport <u>and on low level military training flights.</u> See Section 3.2, Aesthetics, for more information on glare.

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The proposed Project would not include residential or commercials uses that would be affected by operations at the Desert Center Airport on those occasions when it is in use. <u>Project workers working in the</u> project area would not be exposed to excessive noise from the airport, as the Project site is not located within the airport's noise contours. Further, the Project is not considered a sensitive use and would not introduce new residences on the project site which could experience excessive noise from the airport. Overall, any impacts to the safety for people residing or working in the Project area impacts would be less than significant.

Mitigation Measures for Impact HAZ-4

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

Impact HAZ-5. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.

Less THAN SIGNIFICANT, CONSTRUCTION AND DECOMMISSIONING. The proposed site is in a remote area with generally few rural residences; however, approximately 80 residences (primarily mobile homes) are located in Lake Tamarisk Desert Resort located just south of the Project site boundary. Access to the solar facility site would be provided from Rice Road/State Route 177 through up to five primary and three secondary driveway entrances via locked gates. None of these driveway entrances are near LTDR or on its access road and, therefore, construction traffic should not physically interfere with emergency access to LTDR. BLM open routes and agricultural roads would also be improved. Flagging operations at site access points may be implemented during construction or determined to be required during construction stage planning. Construction of the solar facility is not expected to require any temporary lane closures that could restrict the movements of emergency vehicles or impair an emergency evacuation. The site would have controlled access points for ingress and egress into the solar facility. These access points would allow for emergency vehicle access into and through the site. Thus, construction of the proposed Project would result in less-than-significant impacts related to implementation of or physical interference with an adopted emergency response plan or emergency evacuation plan.

LESS THAN SIGNIFICANT, OPERATIONS AND MAINTENANCE. Operations and maintenance of the Project would generate very few vehicle trips with only 2 onsite staff and 8 remote Project operators. Once constructed, maintenance activities would occur as needed at the solar facilities but are not expected to require any temporary travel lane closures that could restrict emergency vehicle movements. The proposed gen-tie line would be located within the Oberon Energy Renewable Project and would not introduce a new obstruction that would adversely affect emergency access or evacuation efforts. See Section 3.17, Transportation, for detailed discussions regarding access in and around the area. Thus, operation of the proposed Project would result in less-than-significant impacts related to implementation of or physical interference with an adopted emergency response plan or emergency evacuation plan.

Mitigation Measures for Impact HAZ-5

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

Impact HAZ-6. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires.

Less THAN SIGNIFICANT WITH MITIGATION, CONSTRUCTION AND DECOMMISSIONING. During construction and decommissioning, fires could be caused by a variety of factors, including vehicle exhaust, sparks associated with grading activities, welding activities, parking on dry vegetation, and the overall temporary increase in human activity. The Project site consists of undeveloped open space, with minimal native or ruderal vegetation with a few rural residences, a mobile home community (LTDR), agricultural, and commercial properties located adjacent to and near the Project. Pursuant to the Code of Federal Regulations, Title 29, Part 1926.24 (29 Code of Federal Regulations [CFR] 1926.24), the Project operator would be responsible for the development and maintenance of an effective fire protection and prevention program through all phases of construction, repair, alteration, or demolition work for the solar facility, BESS, Project substation, gen-tie line, and associated components. The Project Fire Management and Prevention Plan (FMPP) includes procedures for minimizing potential ignition, work restrictions on high fire hazard days, requirements for spark arrestors, prohibition of smoking near vegetated areas or near combustible materials, and requirements for firefighting equipment suitable for extinguishing small fires (IP Easley, 2023, Appendix V). The FMPP for the Project would be implemented during construction to ensure that hazards related to exposing people to wildland fires would be less than significant.

Implementation of Mitigation Measure FIRE-1 (Fire Safety) which provides additional required procedures and information to be included in the FMPP, and of a WEAP, as required under Mitigation Measure HAZ-2, would further reduce wildfire risks. Accordingly, the proposed Project is not expected to expose people or structures, directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires during Project construction. Therefore, impacts would be less than significant with mitigation. See Section 3.18, Wildfire, for detailed discussions regarding wildfires and wildland fires in the Project area.

LESS THAN SIGNIFICANT WITH MITIGATION, OPERATIONS AND MAINTENANCE. As discussed in Section 3.19, Wildfire, the Project is located within both LRA and FRA areas of moderate fire severity. The Project site is not located within a high/very high fire hazard area, as determined by CAL FIRE. The solar facility would be designed and constructed to industry safety design standards (i.e., Institute of Electrical and Electronic Engineers, National Electric Code) and Riverside County Building and Safety Department requirements to reduce the risk of electrical fires at the site. Solar arrays are fire-resistant, as they are constructed largely out of steel, glass, aluminum, or components housed within steel enclosures. Wires would be buried at a minimum of 18 inches below grade, minimizing the potential for faulty wiring to ignite a fire. All electric inverters and the transformer would be constructed on concrete foundation structures or steel skids and tested prior to use to ensure safe operations and avoid fire risks. In the event of a-higher-than-normal temperatures (from events that could start a fire or during a fire events) units could be remotely shut down or generation curtailed remotely until corrective actions (i.e., inspections and repairs) are taken. In a wildfire situation, the panels would be rotated and stowed in a panel-up position. Fire safety and suppression measures, such as smoke detectors and extinguishers, would be installed and available at the O&M facility. Implementation of Mitigation Measure FIRE-1 (Fire Safety) which provides additional required procedures and information to be included in the FMPP, in addition to compliance with applicable regulations, would reduce wildfire risks to less-than-significant levels.

Thermal runaway or other system failures could lead to fire or explosion of the BESS. In order to minimize hazards related to fire and explosion, the BESS would be designed and constructed per all applicable design, safety, and fires standards for the installation of energy storage systems, including, but not limited

to, National Fire Protection Association 855 (Standard for the Installation of Stationary Energy Storage Systems) and Section 1207 of the 2022 California Fire Code. These standards would require installation of fire suppression systems, thermal management, ventilation, and exhaust and deflagration venting systems in the BESS. A fire safety system would be provided within each on-site battery enclosure. Additionally, MM FIRE-1 would require components specific to fire response and safety at the BESS be included in the proposed Fire Management and Prevention Plan for the Project.

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Mitigation Measures for Impact HAZ-6

MM FIRE-1 Fire Safety. See full text in Section 3.19, Wildfire.

Significance After Mitigation

This impact would be less than significant with mitigation.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.10.6. Cumulative Impacts

Geographic Scope

The geographic scope considered for cumulative impacts from health, safety, and hazardous materials/ fire and fuels management is the area extending one mile from the boundary of the Project. One mile is the American Society of Testing and Materials (ASTM) standard search distance for hazardous materials. Tables 3.1-1 and 3.1-2 list existing and reasonably foreseeable projects in the region. The West-wide Section 368 Energy Corridors; SCE Red Bluff Substation; Devers–Palo Verde 1 Transmission Line; Palen Solar Project; Athos Renewable Energy Project; Oberon Renewable Energy Project; Sapphire Solar Project (proposed); and Arica and Victory Pass Solar Projects would all be within one mile of the boundary of the Project site and could therefore combine with the proposed Project and result in a cumulatively considerable impact to hazards and hazardous materials.

Cumulative Impact Analysis

The cumulative effect of transport, use, and disposal of hazardous materials during construction would be limited to the areas where concurrent construction is occurring or where concurrent roads are being used for construction traffic. Operation and maintenance of the proposed Project, including the proposed substations, shared switchyard, and O&M buildings, would involve periodic and routine transport, use, and disposal of minor amounts of hazardous materials, primarily petroleum products (fuels and lubricating oils) and motor vehicle fuel. The implementation of Mitigation Measure HAZ-2 (Worker Environmental Awareness Program) and agency regulations that address the handling of hazardous materials would ensure that the Project would not create a significant hazard to the public or the environment related to the handling or accidental release of hazardous materials. Past, present, and reasonably foreseeable future projects are also subject to existing agency regulations that address the handling and accidental release of hazardous materials, and all of the solar projects would have their own WEAPs for construction and operations. Therefore, existing regulations would ensure that the combined effects related to hazardous materials from the cumulative projects within the geographic scope of analysis would not be cumulatively significant, and that the proposed Project would not make a cumulatively considerable contribution to these effects.

Construction of the Project could encounter previously documented and undocumented hazardous materials sites within the area. Since the proposed site is located within an area with a history of WWII military use, there is a potential for UXO, MEC, and MD. The Project would be required to implement an

UXO Identification, Training, and Reporting Plan (MM HAZ-1) which addresses the identification and treatment of UXO and munitions debris, a WEAP (MM HAZ-2) which addresses hazardous materials handling and disposal training and information, and a SMP (MM HAZ-3) to address potential pesticide contaminated soil. All the cumulative projects would also be located on former military land with a history of UXO and munitions debris, so may have a similar potential for encountering UXO and munitions debris, and would also likely require an UXO Identification, Training and Reporting Plan and a WEAP and/or similar measures to minimize impacts to minimize impacts on and off the site. Because of the history of UXO in this area, the projects collectively could help reduce the overall impacts due to UXO hazards once they are operational and have potentially cleared areas of UXO hazards. Under cumulative conditions Cumulative impacts would be less than significant, and implementation of the Project would not make a cumulatively considerable contribution to public health and safety hazards.

Construction of the Project could result in mobilization of *Coccidioides* fungus spores in airborne dust. If inhaled, this could expose workers and the public to contracting Valley Fever. Implementation of stringent dust control regulations, Mitigation Measures HAZ-2 (Worker Environmental Awareness Program) and AQ-1 (Fugitive Dust Control Plan) minimizes the risk of workers or the public contracting Valley Fever. Past, present, and reasonably foreseeable future projects are also subject to existing agency regulations that address fugitive dust and would likely have similar mitigation to prepare a fugitive dust control plan. Therefore, existing regulations and mitigation would ensure that <u>cumulative impacts are less than significant and</u> the proposed Project would not make a considerably contribution to the potential for contracting Valley Fever.

The Easley Renewable Energy Project and other cumulative solar projects would all involve the storage, use, disposal, and transportation of hazardous materials to varying degrees during construction and operation. Impacts from these activities would not result in <u>significant cumulative impacts</u>, nor would the <u>project result in a</u> considerable contribution to cumulative impact because the storage, use, disposal, and transportation of hazardous materials are extensively regulated by various federal, state, and local laws, regulations, and policies. It is foreseeable that t<u>T</u>he Project and other cumulative projects would implement and comply with these existing hazardous materials laws, regulations, and policies.

Construction and operation of the Project could introduce a risk of wildland fire through accidental ignition of the sparse native vegetation during construction or operation activities, including equipment or BESS malfunction-related fires. The proposed Project would be required to comply with applicable federal, state, and Riverside County requirements relating to fire safety and fire hazards, the FMPP, and Mitigation Measures FIRE-1, minimizing the risk of wildland fire occurring. In addition, projects in the cumulative scenario would similarly be required to comply with fire safety and fire hazard guidelines and policies. Therefore, <u>cumulative impacts would be less than significant</u>, and the Project would not make a cumulatively considerable contribution to potential wildland fire impacts. In addition, the proposed Project would not make a considerable contribution to impact related to impairment of the implementation of or physical interference with an adopted emergency response plan or emergency evacuation plan because no aspect of the Project would interfere with emergency response (e.g., construction is not expected to require any temporary lane closures that could restrict the movements of emergency vehicles).

Mitigation Measures for Cumulative Impacts

- MM AQ-1 Fugitive Dust Control Plan. See full text in Section 3.4, Air Quality.
- **MM FIRE-1** Fire Safety. See full text in Section 3.19, Wildfire.
- MM HAZ-1 UXO Identification, Training, and Reporting Plan. See full text in Section 3.10.9 (Mitigation Measures).

- MM HAZ-2 Worker Environmental Awareness Program. See full text in Section 3.10.9 (Mitigation Measures).
- MM HAZ-3 Soil Management Plan. See full text in Section 3.10.9 (Mitigation Measures).

Significance After Mitigation

The Project's incremental contribution to hazard and hazardous materials impacts would not be cumulatively considerable.

3.10.7. Mitigation Measures

- MM AQ-1 Fugitive Dust Control Plan. See full text in Section 3.4, Air Quality.
- **MM FIRE-1** Fire Safety. See full text in Section 3.19, Wildfire.
- MM HAZ-1 UXO Identification, Training, and Reporting Plan. Where ground disturbance work is involved, contractor(s) shall be OSHA HAZWOPER-trained in accordance with standard 29CFR1910.120 and hold a current certification. The Applicant shall prepare a UXO Identification, Training, and Reporting Plan to properly train all site workers in the recognition, avoidance and reporting of military waste debris and ordnance. The Applicant shall submit the plan to the County and BLM for review and approval prior to the start of construction. The plan shall contain, at a minimum, the following:
 - A description of the training program outline and materials, and the qualifications of the trainers; and
 - Identification of available trained experts that will respond to notification of discovery of any ordnance (unexploded or not); and
 - Work plan to recover and remove discovered ordnance, and complete additional field screening, possibly including geophysical surveys to investigate adjacent areas for surface, near surface or buried ordnance in all proposed land disturbance areas.
- **MM HAZ-2** Worker Environmental Awareness Program. The WEAP prepared for the Project shall include a personal protective equipment (PPE) program, an Emergency Action Plan (EAP), and an Injury and Illness Prevention Program (IIPP) to address health and safety issues associated with normal and unusual (emergency) conditions. It will be reviewed and approved by the County and BLM prior to construction. Construction-related safety programs and procedures shall include a respiratory protection program, among other things. Construction Plan documents shall relate at least to the following:
 - Environmental health and safety training (including, but not limited, to training on the hazards of Valley Fever, including the symptoms, proper work procedures, how to use PPE, and informing supervisor of suspected symptoms of work-related Valley Fever)
 - Site security measures
 - Site first aid training
 - Site fire protection and extinguisher maintenance, guidance, and documentation
 - Furnishing and servicing of sanitary facilities records
 - Trash collection and disposal
 - Disposal of hazardous materials and waste guidance in accordance with local, state, and federal regulations

MM HAZ-3 Soil Management Plan. Prior to issuance of demolition or grading permits, the Applicant shall prepare a Soil Management Plan (SMP) to guide activities during construction that will disturb potentially pesticide <u>or petroleum hydrocarbon</u> contaminated soils to ensure that potentially contaminated soils are identified, characterized, removed, and disposed of properly. The SMP shall be submitted to the County and BLM for approval prior to Project construction. The purpose of the SMP is to establish appropriate management practices for handling impacted soil or other materials that may be encountered during construction activities.

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The SMP shall be implemented during Project construction and shall include, but shall not be limited to, the following components:

- Description of soil testing, which shall include (but not be limited to) the collection of shallow soil samples and analyses for pesticides to verify presence or absence of unknown pesticide soil contamination and the collection of soil samples at locations at and near onsite current and former fuel ASTs for analyses for petroleum hydrocarbons. This soil profiling shall be performed prior to initiation of Project construction.
- Protocols for sampling of in-place soil to facilitate the profiling of the soil for appropriate off-site disposal or reuse, and for construction worker safety, dust mitigation during demolition and construction and potential exposure of contaminated soil to future users of the site prior to Project construction.
- Procedures to be undertaken in the event that contamination is identified above action levels or previously unknown contamination is discovered prior to or during Project construction.
- Sampling and laboratory analyses of any excess soil requiring disposal at an appropriate off-site waste disposal facility.
- Procedures and protocols for the safe storage, stockpiling, and disposal of any contaminated soils.

If contaminants are identified at concentrations exceeding applicable screening levels, the Applicant shall submit the SMP sampling results to the County DEH and BLM and obtain oversight from the appropriate regulatory agencies. Copies of the approved SMP shall be kept at the Project site.

Any contaminated soils identified by testing conducted in compliance with the SMP and found in concentrations above established thresholds shall be removed and disposed of according to California Hazardous Waste Regulations. Contaminated soil excavated from the site shall be hauled off-site and disposed of at a licensed hazardous materials disposal site.

3.11. Hydrology and Water Quality

This section presents the existing local and regional water resources baseline for the Easley Renewable Energy Project (Project), the regulatory framework for water resources, and an assessment of the effects of the Project on groundwater and surface water sources. The Project area relevant to the analyses of water resources is the underlying Chuckwalla Valley Groundwater Basin (CVGB) and adjacent groundwater basins for groundwater resources and the Chuckwalla Valley Drainage Basin for surface water resources. The Easley Solar Project Hydrology Study by Westwood Professional Services (Westwood, 2023) is used as a primary source the surface water information in this section.

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3.11.1. Environmental Setting

This section refers to certain laws and regulations that apply to water resources in this area. These laws and regulations are described in more detail in Section 3.11.2.

3.11.1.1. Surface Water

Drainage Characteristics

The Project site is in the Chuckwalla Valley of Riverside County near the community of Desert Center, California. Although in the Mojave Desert Geomorphic Province, the Project lies within the Sonoran Desert ecoregion consisting of isolated mountain ranges separated by expanses of desert plains. The site is within an interior enclosed drainage system, meaning there is no outlet to the ocean. Drainage is to shallow lake beds which, being dry most of the time, are known as dry lakes or playas. Figure 3.11-1 (Project Topography) shows the topography of the Project site.

The Project lies on wide, flat alluvial fans emanating from the Chuckwalla Mountains to the south and from the Eagle Mountains to the east. Alluvial flows from these two mountain ranges form a series of numerous shallow, inter-braided, small washes which enter along the western boundary of the Project and traverse the Project from southwest to northeast. The Big Wash originates in the Eagle Mountains and crosses along the north side of the Project to join with the Pinto Wash, originating from the Eagle Mountains and from the area north of the Eagle Mountains. The Pinto Wash passes northwest to southeast adjacent to the north and east side of the Project site. All these washes are similar in character (numerous shallow inter-braided washes flowing over a wide area).

The elevation of the Project site ranges from about 550 feet above mean sea level (amsl) on the northeastern boundary of the site to 740 feet amsl at the southwestern edge. The surrounding mountains rise to over 3,000 feet amsl. The Project's site is relatively flat to gently sloping to the northeast.

Climate and Precipitation

The Chuckwalla Valley is characterized by high aridity, low precipitation, hot summers, and cool winters. Average maximum temperature at the nearby Eagle Mountain Climate Station is 104.9 degrees Fahrenheit (°F) in July. Average minimum temperature is 46.2°F in December (WRCC, 2023). Average annual precipitation is approximately 3.67 inches at Eagle Mountain Climate Station and 3.39 inches at the Blythe Climate Station (NOAA, n.d.[a]; NOAA, n.d.[b]; WRCC, 2023). Most rainfall occurs during the winter months, or in association with summer tropical storms which tend to be of shorter duration and higher intensity than winter storms. Eastern Riverside County is currently (February 2023) classified by the U.S. Drought Monitor as being in a moderate drought (U.S. Drought Monitor, 2023). Due to the aridity of the region, natural surface water within the Project area is ephemeral. Natural drainage courses (the washes described above) remain dry most of the time, carrying flows only after rainfalls sufficient to produce runoff.

Flooding

At the location of the Project, the ephemeral desert watercourses exhibit characteristics of alluvial fans. Water from mountain canyons and drainages discharges onto the alluvial desert floor and spreads into a series of relatively unconsolidated channels and sheet flow which can inundate wide areas. Flood depths are generally (though not always) shallow resulting from the inability of the small, braided drainage channels to contain large flows. Flow patterns, as exhibited by visible watercourses, can shift over time, even within the duration of a single flood, as existing channels fill in and new channels are made.

The Federal Emergency Management Agency (FEMA) has not prepared flood insurance rate maps for the Project site; however, nearly all the site is within California Department of Water Resources (CDWR) Flood Awareness zones (Westwood, 2023) as shown in Figure 3.11-2 (DWR Flood Zones). These zones are approximate, for general information only, and are not intended as regulatory floodplains.

Westwood Professional Services (Westwood, 2023) has prepared a flood analysis appropriate for unconsolidated alluvial fan flooding on the Project site. Because of the complex and distributary nature of the flow path upstream and throughout the Project site, the Westwood study analyzed major sources of flooding in the area on a fixed-boundary terrain using a two-dimensional model grid with 50-foot cells. This study showed that much of the Project site would be subject to 100-year flooding as follows:

Flood depth < 0.5 feet = 64.9% of the Project site. Flood depth 0.5 feet to 1 foot = 31.9% of the Project site. Flood depth 1.01 feet to 1.5 feet = 2.5% of the Project site. Flood depth 1.51 feet to 2 feet = 0.3% of the Project site. Flood depth 2.01 feet to 2.5 feet = 0.1% of the Project site. Flood depth 2.51 to 6+ feet <= 0.3% of the Project site.

Based on the above flood depths, and the nature of the alluvial terrain as already described, it is concluded that nearly every portion of the Project site could be subject to flooding, but most flood depths would be shallow (less than one foot). Figure 3.11-3 shows areas expected to be subject to flooding of more than one foot, which amount to roughly 3.2 percent of the site.

Flow velocities over most of the site range from 1 to 1.5 feet per second for the 100-year flood, with a few areas as much as 3 to 4 feet per second. Expected scour is mostly 1 to 1.5 feet. Highest velocities and scour would be associated with the deepest depths roughly shown in Figure 3.11-3.

The 100-year flood, used as a regulatory flood by FEMA and Riverside County, has a one percent chance of occurring in any year. Although the probability of occurrence remains the same (1 percent) for any given year, on average, a flood of this magnitude can be expected to occur once every 100 years. The flood limits shown in Figure 3.11-3 and described above are not regulatory floodplains. The purpose of the figure is to show the most-likely areas of worst-case 100-year flooding under current (year 2023) conditions. Because the flood model used a 50-foot grid, and because natural flow channels can shift through avulsion (the rapid abandonment of and the formation of new channels), there is a potential for the flood pattern shown in Figure 3.11-3 to change at some point in the future. Most flood depths over the Project site are likely to remain less than 1 foot as indicated in the Westwood study.

Water Quality

Historical beneficial uses of water within the Colorado River Basin Region have been determined by the Colorado River Basin Regional Water Quality Control Board (RWQCB) and are largely associated with irrigated agriculture and mining. Industrial use of water has become increasingly important in the Region, particularly in the agricultural areas (RWQCB, 2019). The RWQCB Water Quality Control Plan for the Colorado River Basin Region (Basin Plan) (RWQCB, 2019) lists specific beneficial uses for surface waters

and groundwater. The surface waters on the Project site would be classified in the Basin Plan as washes (ephemeral streams) which have the following beneficial uses: Groundwater Recharge (GWR), Non-Contact Water Recreation (REC II), Warm Freshwater Habitat (WARM) (to be established on a case-by-case basis), and Wildlife Habitat (WILD). Beneficial uses of the groundwater in the CVGB are Municipal and Domestic Supply (MUN), Industrial Service Supply (IND), and Agriculture Supply (AGR).

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None of the waters in or near the proposed Project are currently listed as impaired on the Clean Water Act (CWA) Section 303(d) list of impaired waters (SWRCB, 2020).

Jurisdictional Waters

Jurisdictional waters were delineated for the Project site in the Jurisdictional Waters Report by Ironwood Consulting (Ironwood, 2023; see EIR Appendix F). Potential areas of jurisdiction include waters of the U.S., administered by the U.S. Army Corps of Engineers (USACE) under the CWA, waters of the State, administered by the RWQCB, and waters subject to the jurisdiction of the California Department of Fish and Wildlife (CDFW).

The Ironwood report concluded that there were 398.38 acres of unvegetated ephemeral wash and 0.6177 acres of anthropogenic wetlands which are unlikely to be jurisdictional under the Clean Water Act. There are 742.38 acres of dry desert wash woodland and 0.4495 acres of non-native riparian vegetation which are not jurisdictional under the Clean Water act. All these resources are either subject to or likely subject to RWQCB jurisdiction. All are subject to CDFW jurisdiction, necessitating approval of a Streambed Alteration Agreement.

Springs and seeps in the area include Corn Springs, Box Spring, Crystal Spring, Old Woman Spring, Cove Spring, Mitchell Caverns Spring, Bonanza Spring, Agua Caliente Spring, Kleinfelter Spring, Von Trigger Spring, Malpais Spring, and Sunflower Spring (RWQCB, 2021). All these springs are in the surrounding mountains, and none are located such that they could serve as water supply for or be affected by the Project.

3.11.1.2. Groundwater

The information presented below for groundwater resources and the CVGB is primarily from the Project's Water Supply Assessment (WSA), which is included as EIR Appendix G (GSI, 2024). References used are cited in the WSA (EIR Appendix G).

Groundwater Overview

The Project is located within the California Department of Water Resources (DWR) Bulletin 118 CVGB (Basin No: 7-5), which is in eastern Riverside County and encompasses an area of approximately 940 square miles (DWR, 2004) (see GSI, 2024, Figure 3 in Appendix G). Groundwater has been identified as the primary source of water in the CVGB. DWR has categorized the CVGB as a <u>very</u> low-priority basin under the Sustainable Groundwater Management Act (SGMA) (DWR, 2020<u>a</u>).

The CVGB is located within the Southern Mojave Watershed (Hydrologic Unit Code 8-18100100). The Chuckwalla Valley watershed, a subunit of the South Mojave Watershed, contributes to the CVGB via percolation of precipitation. Percolation of precipitation occurs within the Chuckwalla Valley watershed via runoff from the surrounding mountains and from precipitation to the Chuckwalla Valley floor (DWR, 2004; CEC, 2010).

There are no perennial streams in Chuckwalla Valley. Drainage in the CVGB is to the Palen and Ford Dry Lakes located in topographic low points (DWR, 2004). All surface water in the western portion of the CVGB, which includes the Project area, flows to Palen Dry Lake, located approximately 10 miles east of

the community of Desert Center and roughly 7 miles east of the Project area. Surface water in the eastern portion of the Chuckwalla Valley flows to Ford Dry Lake, located approximately 10 miles southeast of the Palen Dry Lake (RWQCB, 2021). Documented springs and seeps in the area are in the surrounding mountains, and none are located such that they could serve as a water supply for the Project (Aspen, 2021).

The CVGB underlies the Palen and Chuckwalla Valleys. The CVGB is bounded by the consolidated rocks of the Chuckwalla, Little Chuckwalla, and Mule Mountains on the south; the Eagle Mountains on the west; and the Mule and McCoy Mountains on the east. Rocks of the Coxcomb, Granite, Palen, and Little Maria Mountains bound the valley on the north (DWR, 2004).

Water-bearing units of the CVGB include Pliocene to Quaternary age continental deposits divided into Quaternary alluvium, the Pinto Formation, and the Bouse Formation (DWR, 2004). Bedrock is as deep as 5,000 feet below ground surface in the eastern portion of the CVGB. Wells in the vicinity of the Project extend to depths of approximately 550 to 875 feet below ground surface, with water levels approximately 100 to 150 feet below ground surface (RWQCB, 2021; Shen et al., 2017).

The CVGB is located within the jurisdiction of the Colorado River Basin RWQCB and is subject to management direction of the Water Quality Control Plan for the Colorado River Basin (Region 7) (RWQCB, 2019). The CVGB is bordered by the Pinto Valley, Cadiz Valley, Rice Valley, and Ward Valley Groundwater Basins on the north; the Palo Verde Mesa Groundwater Basin on the east; the Arroyo Seco Valley and Chocolate Valley Groundwater Basins on the south; and the Orocopia Valley Groundwater Basin on the west.

The CVGB is an unadjudicated groundwater basin. Owners of property overlying the CVGB have the right to pump groundwater from the CVGB for reasonable and beneficial use, provided that the water rights are neither severed nor reserved. Groundwater production in the CVGB is not managed by a specific entity and a groundwater sustainability plan has not been prepared <u>and nor-</u>is <u>not</u> required, per SGMA, to be submitted to DWR based on its basin prioritization (<u>very</u> low priority) (DWR, 2020<u>a</u>). An Urban Water Management Plan and an Integrated Regional Water Management Plan have not been developed for the area.

Groundwater Trends

The following sections summarize available groundwater level and groundwater quality data for the CVGB.

Groundwater Levels

Depths to groundwater are as deep as about 400 feet below ground surface in many parts of the CVGB (RWQCB, 2019). Based on groundwater contour data from 1961, 1979, and 1992 groundwater in the CVGB moves from the north and west toward the gap between the Mule and McCoy Mountains at the southeastern end of the Chuckwalla Valley (AECOM, 2010a; DWR, 2004). Available data indicate groundwater levels were stable as of 1963 and that a total groundwater extraction of 9,100 AFY was obtained in 1966 and 9,023 AF in 2019 (DWR, 2004; DWR 2020a).

The direction of groundwater movement is not expected to have changed since 1992, but there have been changes in groundwater levels, especially localized around areas of increased extraction. For example, data from wells within the Desert Center area show a period of water level decline from the mid-1980s through the early 1990s during periods of expanded agricultural operations. During the mid-1980s, combined pumping exceeded 21,000 AFY, which is well above historical water usage for the Desert Center area of the CVGB (AECOM, 2011; GEI, 2010).

The National Park Service has noted that groundwater levels throughout the CVGB appear to have been trending downward for several decades (BLM, 2012). Most wells in the CVGB have not been used for

collecting monitoring data such as groundwater level trends since the 1980s. However, groundwater data collected from several wells for the past 25 years indicate that groundwater level trends have remained largely stable in the eastern CVGB, and that groundwater levels have risen gradually back towards preagricultural pumping groundwater levels in the western CVGB (where the Project is located), while dropping steadily in the central CVGB (Aspen, 2021). In 2012, the U.S. Geological Survey (USGS) installed monitoring wells in the eastern CVGB. Available water level data from these wells indicate generally rising groundwater levels over the period of data collection (USGS, 2023).

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In general, h<u>Available h</u>istorical groundwater level data show relativelygenerally stable groundwater levels in the CVGB, interrupted in the Desert Center area in the past mainly by relatively intensive agricultural pumping. <u>Available Hh</u>istorical groundwater level data from the Desert Center area indicate rising, or recovering, groundwater levels following the cessation of most agricultural usage since the 1980s (AECOM, 2010a).

Groundwater Quality

The Project is located in the jurisdiction of the Colorado River Basin RWQCB. The Water Quality Control Plan developed by the RWQCB establishes water quality objectives, including narrative and numerical standards, to protect the beneficial uses of surface and ground waters in the region. The Water Quality Control Plan describes implementation plans and other control measures designed to ensure compliance with Statewide plans and policies and documents comprehensive water quality planning.

Beneficial uses of waters, designated by the RWQCB, are of two types: consumptive and non-consumptive. Consumptive uses are those normally associated with people's activities, primarily municipal, industrial, and irrigation uses that consume water and cause corresponding reduction and/or depletion of water supply. Non-consumptive uses include swimming, boating, waterskiing, fishing, hydropower generation, and other uses that do not significantly deplete water supplies. Historical beneficial uses of water within the Colorado River Basin Region have largely been associated with irrigated agriculture and mining. Industrial use of water has become increasingly important in the Region, particularly in the agricultural areas (RWQCB, 2019). The RWQCB Water Quality Control Plan for the Colorado River Basin Region (RWQCB, 2019) lists specific beneficial uses for groundwater. Beneficial uses of the groundwater in the CVGB are Municipal and Domestic Supply (MUN), Industrial Service Supply (IND), and Agriculture Supply (AGR).

Total dissolved solids (TDS) concentrations across the CVGB range from 274 milligrams per liter (mg/L) to 12,300 mg/L. The lowest TDS concentrations are in the western portion of the CVGB, where TDS concentrations range from 275 to 730 mg/L (DWR, 2004). In the northwest portions of the CVGB, arsenic concentrations have ranged from 9 micrograms per liter (ug/L) to 25 ug/L (GEI, 2010). Water quality in the CVGB has concentrations of sulfate, chloride, fluoride, and TDS that are higher than recommended levels for drinking water use. Likewise, elevated concentrations of boron, TDS, and percent sodium impair groundwater for irrigation use. In general, groundwater in the CVGB is sodium chloride to sodium sulfate-chloride in character (DWR, 2004).

Recent available water quality data near the proposed Project is limited to four wells, with nitrate being the only constituent analyzed in three of the four wells. Reported nitrate concentrations in all four wells were below the federal and California Maximum Contaminant Level of 10 mg/L (nitrate measured as nitrogen).

Groundwater Storage Capacity

Total groundwater storage capacity of the CVGB is estimated to be from 9,100,000 AF to 15,000,000 AF (DWR, 2004). A project-specific 2013 analysis estimated the storage capacity of the CVGB to be about 10,000,000 AF (SWRCB, 2013).

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Groundwater Recharge

Recharge to the CVGB occurs from subsurface inflow from other groundwater basins, infiltration of precipitation, irrigation return flow, and wastewater return flow. Leakage from the Colorado River Aqueduct has also been identified as a possible source of inflow.

Subsurface Inflow and Mountain Front Recharge

Groundwater in the CVGB generally flows west to east. Subsurface inflow originates from the Pinto Valley and Orocopia Valley Groundwater Basins, which are west of the CVGB (DWR, 2004; BLM, 2011). The amount of inflow from the Pinto Valley and Orocopia Valley Groundwater Basins is highly-uncertain, and there have been a wide-range of estimates from different publications ranging from a low of 372 AFY to a high of 6,575 AFY (Aspen, 2021; Fang et al., 2021).

Two groundwater budgets were developed for the Project WSA (GSI, 2024). The first (Table 3.11-1) is a best estimate using data that have been widely reported and used in previous WSA-studies (see Section 3.11.1.2 and GSI, 2024, Sections 5.7 and 5.8). The second water budget analysis (Table 3.11-2) uses lower input estimates (see Section 3.11.1.2 and GSI, 2024, Sections 5.7 and 5.8). The first, or "normal conditions" groundwater budget developed for the Project WSA uses 877 AFY as established in Fang et al. (2021) as the upper bound asof the amount of natural groundwater recharge from subsurface inflow from the Pinto Valley Groundwater Basin. This was the upper range of the groundwater inflow estimates from the Pinto Valley Groundwater Basin. Groundwater budget uses 372 AFY as the amount of natural groundwater of the range of estimates. The second, or "reduced recharge", groundwater budget uses 372 AFY as the amount of natural groundwater recharge from subsurface inflow, which was developed by Fang et al. (2021) as the lower bound. These mountain front recharge volumes represent the upper and lower bounds in Fang et al. (2021). Notably, the upper bound of subsurface inflow used in the WSA (877 AFY) represents a conservative assumption, as groundwater budgets in WSAs for nearby projects in the recent past have used 3,500 AFY (Aspen, 2021), which is approximately of the range of estimates.

Mountain front recharge is recorded as lateral subsurface flow that passes from thin mountain soil to the aquifer at the mountain foot (Fang et al., 2021). The Project WSA (GSI, 2024) groundwater budget uses 210 AFY for mountain front recharge. The analysis also applies the 107 AFY for the reduced groundwater recharge scenario. These mountain front recharge volumes represent the upper and lower bounds in Fang et al. (2021).

Infiltration of Precipitation

Groundwater recharge to the CVGB by precipitation is difficult to assess due to <u>lack of</u> data quality and the aridity of the region. The CVGB receives a total precipitation of approximately 205,376 (Fang et at., 2021) to 258,000 AFY (CEC, 2010). Recharge from precipitation has been estimated by previous CVGB studies as a percentage of total precipitation. The California Energy Commission (CEC) recommended using 8,588 AFY (about 3.3 percent of total precipitation) for a conservative groundwater budget analysis (CEC, 2010). These results are supported by the findings of a study included in a USGS report on groundwater recharge in the arid and semiarid southwestern U.S. (USGS, 2007) which identified a range of approximately 3 to 7 percent of total precipitation for the Mojave Desert, depending on the amount of precipitation received. Fang et al. (2021) (using the CVGB precipitation estimate of 205,376 AFY) estimates a range of approximately 3.4 percent to 5.6 percent of precipitation that falls within the Chuckwalla Valley watershed contributes to groundwater; resulting in a groundwater recharge from precipitation range of approximately 6,983 AFY to 11,501 AFY.

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The groundwater budget developed for the Project WSA (GSI, 2024) uses 8,846 AFY of groundwater recharge from precipitation. The recharge from precipitation estimate is approximately 4.3 percent of the Fang et al. (2021) estimated annual CVGB watershed precipitation. Because of the uncertainties of water budget components included in the Fang et al. (2021) water balance (see GSI, 2024, Section 5.7.1), the 5.6 percent recharge from precipitation from Fang et al. (2021) could not be used in conjunction with all of the inflow water budget components included the Project WSA.²⁴ The resulting groundwater inflow estimate would have exceeded the upper bounds of the total recharge estimated by Fang et al. (2021).

For the reduced groundwater recharge scenario, 4,997 AFY of recharge from precipitation is used for the groundwater budget, representing approximately 2.4 percent of average annual precipitation (Fang et al., 2021). Similarly, because of the uncertainties of water budget components included in the Fang et al. (2021) water balance (see GSI, 2024, Section 5.7.1), the 3.4 percent recharge from precipitation from Fang et al. (2021) could not be used in conjunction with all of the inflow water budget components included the Project WSA. The resulting groundwater inflow estimate would have exceeded the lower bounds of the Fang et al. (2021) total recharge estimate.

Irrigation and Wastewater Return Flow

Irrigation water applied to crops within the CVGB has the potential to infiltrate to groundwater depending on the amount and method of irrigation, soil, crop type, and climate. The CEC estimated irrigation return recharge as 10 percent of total irrigation volume as determined by a 2009 study (WorleyParsons, 2009), and determined that 800 AFY would reach the CVGB (CEC, 2010).²⁵

Wastewater return flow within the CVGB originates from the Chuckwalla State Prison, the Ironwood State Prison, and the Lake Tamarisk development near Desert Center (CEC, 2010; WorleyParsons, 2009). The prisons use an unlined pond to dispose of treated wastewater, and it is estimated that 795 AFY infiltrates to the CVGB (WorleyParsons, 2009). Another 36 AFY is estimated to originate from Lake Tamarisk, for a total of 831 AFY (WorleyParsons, 2009).

Colorado River Aqueduct

Leakage from the Colorado River Aqueduct, which runs across the western edge of the CVGB, has not been documented, but was hypothesized by the Argonne National Laboratory (Argonne) in a 2013 study of the Riverside East Solar Energy Zone (Argonne, 2013). Argonne estimated a 2,000 AFY contribution to the CVGB from the aqueduct based on measured leakage rates from the Central Arizona Project in Arizona (Argonne, 2013). This recharge component is not well documented and, if it does occur, the use of it would require a corresponding entitlement; therefore, it is not used in the Project WSA.

Groundwater Demand/Outflow

Groundwater outflow from the CVGB occurs as subsurface flow, groundwater pumping, and evapotranspiration. The three outflow components are summarized below.

²⁴ There are uncertainties associated with the Fang et al. (2021) groundwater budget recharge components because they were categorized (or grouped) differently than those described in the Project's WSA and limited explanation was provided by the Fang et al. (2021) for each group of recharge components. -The percent recharge from precipitation in the Project WSA was reduced to ensure the total annual groundwater recharge was consistent with Fang et al. (2021).

²⁵ Groundwater extraction for agricultural irrigation was estimated at 6,628 AF in 2019 (DWR, 2020a). Therefore, the 6,400 AFY estimated by WorleyParsons (2009) and used in the Project WSA for agricultural irrigation return flow is acceptable, although slightly underestimated according to the CEC.

Subsurface Outflow

Subsurface outflow from the CVGB is to the Palo Verde Mesa Groundwater Basin and has been estimated as ranging from 400 to 1,162 AFY (CEC, 2010). The Argonne 2013 study of the CVGB assumed zero subsurface outflow; however, justification was not well documented. Using gravity data, Wilson and Owens Joyce (1994) found that the area through which discharge is suspected to occur is significantly more limited than previously thought due to the presence of a buried bedrock ridge. Given that this discovery was made after the 1,162 AFY estimate was reported (which was in 1990), the lower estimate of 400 AFY outflow was adopted for the Project WSA. Subsurface outflow calculations from the CVGB to the Palo Verde Mesa Groundwater Basin have included 0 AFY (Argonne, 2013), 400 AFY (Metzger et al., 1973), 870 AFY (Woodward Clyde, 1986), and 1,162 AFY (Engineering Science, 1990). The Metzger et al. (1973) calculation was based on a cross sectional profile of the boundary between the two basins derived using geophysical methods and regional data regarding groundwater gradients and hydraulic conductivity. Woodward Clyde (1986) revised this estimate based on the same cross-sectional area and hydraulic gradient but with an updated hydraulic conductivity derived from a pumping test conducted at the Chuckwalla State Prison. Engineering Science (1990) updated this estimate to 1,162 AFY using updated gradient information that considered the results of monitoring and return flow from prison effluent disposal. Wilson and Owens-Joyce (1994), using existing gravity data from the USGS, identified a bedrock ridge underlying the CVGB fill east of the cross-section produced by Metzger et al. (1973), indicating the area through which discharge occurs is more limited than assumed in previous studies (CEC, 2010; Genesis Solar and WorleyParsons, 2010). Therefore, the Woodward Clyde (1986) and Engineering Science (1990) estimates are likely too high.

The Metzger et al. (1973) calculation of 400 AFY was adopted for the Project WSA. The Metzger et al. (1973) estimate was derived using a repeatable scientific method and was used in GEI (2009). Additionally, due to the limited magnitude of the range of values, the selected value is inconsequential to results of the cumulative impact scenario (see Section 7 of WSA).

Groundwater Extraction

Current and historical groundwater extraction in the CVGB includes agricultural water use, pumping for Chuckwalla and Ironwood State Prisons, pumping for the Lake Tamarisk development and golf course, domestic pumping, and a minor amount of pumping by Southern California Gas Company (CEC, 2010). Using data from 2005 to 2010, DWR (2015) estimated the total amount of pumping at 5,000 AFY for the entire CVGB. Argonne (2013), using DWR data, estimated 5,100 AFY. Other recent studies have calculated higher estimates. Specifically, the Palen Solar Project Environmental Impact Study and CEC staff assessment for the Palen Solar Project, both used 10,361 AFY (BLM, 2011; CEC, 2010). AECOM, in a WSA for the Palen Solar Power Project (AECOM, 2010a), estimated 5,745 AFY to 7,415 AFY, with no sourcetechnical citation identified. DWR (2020a) estimated 9,023 AF total annual groundwater use in the CVGB in 2019. For the purposes of this analysis, the most-recent estimate of 10,361 AFY is used as an reasonable-upper estimate of total extraction, as was used by the BLM (2011) and the CEC (2015).

Since the reporting of the studies related to the Palen Solar Project, an additional approximately 340 AFY of groundwater extraction occurs within the CVGB for qualifying projects located within the Development Focus Area (RWQCB, 2021).²⁶ Therefore, the total baseline groundwater extraction amount determined for purposes of the Project WSA is 10,700 AFY. <u>Annualized total pumping used in Fang et al. (2021) was 8,101 AF.</u>

²⁶ Qualifying completed projects (i.e., operational groundwater uses only) contributing to the baseline groundwater extraction include Genesis Solar Electric Plant (218 AFY), Desert Sunlight Solar Farm (0.3 AFY),- Desert Harvest Solar Project (40 AFY), Athos Renewable Energy Project (40 AFY), and Palen Solar Project (41 AFY) (RWQCB, 2021).

Evapotranspiration

The groundwater table at the Palen Dry Lake was identified at a depth of 8 feet below the ground surface (WorleyParsons, 2009). This suggests that groundwater could be close enough to rise through capillary action and be lost through evaporation (CEC, 2010).

The CEC (2015) estimated groundwater discharge rates from Palen Dry Lake using measured evaporation rates at Franklin Lake Playa in Death Valley, adjusted for differences in the characteristics of the two dry lakes, as a reference. The result was 0.0583 feet of evapotranspiration per month, for 3 months of the year. Over the 2,000-acre area considered susceptible to groundwater evapotranspiration, this amounts to 350 AFY (CEC, 2010).

Baseline Groundwater Budget

The baseline groundwater budget is the groundwater budget for the CVGB in the absence of the Project and all other known cumulative projects not already in place. For the purposes of this analysis, agricultural uses and existing cumulative projects are considered as part of the baseline budget. There are no manufacturing water uses in the area.

Normal (Average) Year

Table 3.11-1 provides a baseline groundwater budget during normal climatic conditions for the CVGB based on the adopted information presented in Section 3.11.1.2 and the Project WSA (GSI, 2024). The baseline basin yield for the CVGB is estimated at 100 AFY (budget balance from Table 3.11-1).²⁷ This budget would be for a normal (average) year, in terms of precipitation and water use. Assuming a 100 AFY average year yield, the CVGB would have a surplus of approximately 5,200 AF at the end of the 52<u>-</u>year period.<u>, meaning groundwater levels and groundwater in storage in the CVGB would gradually recover from deficit that may have been created during past periods of increased agricultural pumping.²⁸ Groundwater levels and groundwater in storage in the CVGB would be expected to gradually increase over the 52-year period.</u>

Although Table 3.11-1 is described as a baseline groundwater budget during normal climatic conditions, it is also considered the more accurate estimate and is relied upon here for purposes of the impacts discussed below. As described in Section 5.7 and 5.8 of the Project WSA (GSI, 2024), the adopted groundwater budget components are considered conservative. The adopted groundwater recharge components are generally in the lower range of published volumes and the groundwater outflow components are generally on the higher range of published volumes. Because of the aridity, sparse population, and limited development of the CVGB (when compared to the size of the CVGB), the groundwater budget is driven by precipitation related groundwater recharge and groundwater extraction from pumping. Total annual groundwater pumping used in the Project WSA however is approximately 1,340 AF greater than the annual groundwater pumping estimated by DWR (2020a) in 2019. If the DWR (2020a) annual groundwater pumping estimated by DWR (2020a) in 2019. If the CVGB would be approximately 1,500 AF and the CVGB would have a surplus of approximately 78,000 AF at the end of the 52-year

²⁷ Basin Yield is the volume of pumping that can be extracted from the basin on a long-term basis without creating a chronic and continued lowering of groundwater levels and the associated reduction in the volume of groundwater in storage. Basin yield is not a fixed constant value but a dynamic value that fluctuates over time as the balance of the groundwater inputs and outputs change. Basin yield is not the same as sustainable yield. Sustainable yield is defined in SGMA as "the maximum quantity of water, calculated over a period representative of long-term conditions in the basin and including any temporary surplus that can be withdrawn annually from a groundwater supply without causing an undesirable result" (California Water Code 10721).

²⁸ The 52-year period is equivalent to the Project's approximate 2-year construction period, assumed 48-year operational period, and estimated 2-year decommissioning period.

period. This 76,500 AF discrepancy demonstrates the weighted significance of the water budget assumptions (even without consideration of cumulative project pumping) and should be considered when reviewing the various projected groundwater budgets presented herein. For comparison, an additional "Budget Balance" row that incorporates the DWR (2020a) estimated groundwater pumping is included in the projected groundwater budgets presented herein.

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Table 3.11-1. Estimated Normal Baseline Groundwater Budget for Chuckwalla Valley Groundwater Basin Basin

Budget Components	Acre-Feet per Year
Inflow	
Recharge from Precipitation ¹	8,846
Underflow from Pinto Valley and Orocopia Valley Groundwater Basins ²	877
Mountain Front Recharge ³	210
Irrigation Return Flow ⁴	800
Wastewater Return Flow ⁵	831
Total Inflow ⁹	11,600
Outflow	
Groundwater Extraction ⁵	-10,700
Underflow to Palo Verde Mesa Groundwater Basin ⁷	-400
Evapotranspiration at Palen Dry Lake ⁸	-350
Total Outflow ⁹	-11,500
Budget Balance (Inflow – Outflow) ⁹	100
Budget Balance (Inflow – Outflow) Using the DWR (2020a) Groundwater Extraction ⁹	<u>1,500</u>
Notes	

¹ Fang et al., 2021

² Fang et al., 2021

³ Fang et al., 2021

⁴ CEC, 2010

⁵ WorleyParsons, 2009

⁶ Based on RWQCB, 2021, plus extractions of existing cumulative projects.

⁷ CEC, 2010

⁸ CEC, 2010

⁹ Due to rounding, the total does not correspond to the exact sum of all figures shown.

Dry YearReduced Recharge Assumptions

Because of the uncertainties involved and to provide a range of values, two<u>The WSA considersed an</u> groundwater budget, <u>s were developed for the Project WSA. The first (Table 3.11-1) is presented above.</u> a best estimate using data from recently developed numerical groundwater models for the CVGB and data used in previous WSA studies (see Section 3.11.1.2 and Project WSA Section 5.7 and 5.8). The second water budget analysis (Table 3.11-2) which uses lower input estimates (Table 3.11-2) (see Section 3.11.1.2 and GSI, 2024, Sections 5.7 and 5.8). Specifically, the second budget uses a recharge from precipitation estimate of 4,997 AFY, and an underflow from the Pinto Valley Groundwater Basin of 372 AFY. All other inflow/outflow estimates are the same for both budgets. The two groundwater budgets together provide insight into a range of potential outcomes related to groundwater use in the CVGB.

Using the lower estimates of precipitation and underflow recharge, the baseline budget indicates the CVGB to be in deficit, with a loss of approximately 4,400 AFY, resulting in a cumulative-deficit of approximately 228,800 AFY over the 52-year period. Groundwater levels would be expected to lower and the

volume of groundwater in storage would decrease. <u>Incorporating the DWR (2020a) annual groundwater</u> <u>pumping estimate into the CVGB groundwater budget</u>, the baseline reduced inflow groundwater budget for the CVGB indicates a reduced annual deficit of approximately 3,000 AF and a total deficit of approximately 156,000 AF at the end of the 52-year period.

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As noted above, the baseline groundwater budget presented in Table 3.11-1 is considered the more accurate estimate and includes a conservatively high annual groundwater pumping estimate (see GSI, 2024 Sections 5.7, 5.8, and 6). The CVGB reduced recharge groundwater budget indicates an annual deficit, however reported groundwater levels in the CVGB have been generally stable and, in some areas, indicate an increasing trend which can result from a-decreased groundwater pumping and (on average) an annual basin groundwater surplus. Additionally, the reduced recharge groundwater budget is inconsistent with previous studies, including USGS (2007), CEC (2010), and Fang et al. (2021). As discussed in the WSA, USGS (2007) and CEC (2010) calculated a range of precipitation-related groundwater recharge in the arid and semiarid southwestern United States and the CVGB, respectively, and Fang et al. (2021) is the most upto-date groundwater model for the CVGB and has been used or suggested by other agencies (including BLM) and experts for modeling the CVGB.

 Table 3.11-2.
 Estimated Normal Baseline Groundwater Budget for the Chuckwalla Valley Groundwater

 Basin Using Reduced Estimates of Precipitation and Subsurface Inflow

Budget Components	Acre-Feet per Year
Inflow	
Recharge from Precipitation ¹	4,997
Underflow from Pinto Valley and Orocopia Valley Groundwater Basins ²	372
Mountain Front Recharge ³	107
Irrigation Return Flow ⁴	800
Wastewater Return Flow ⁵	831
Total Inflow ⁹	7,100
Outflow	
Groundwater Extraction ⁶	-10,700
Underflow to Palo Verde Mesa Groundwater Basin ⁷	-400
Evapotranspiration at Palen Dry Lake ⁸	-350
Total Outflow ⁹	-11,500
Budget Balance (Inflow – Outflow) ⁹	-4,400
<u>Budget Balance (Inflow – Outflow)</u> Using the DWR (2020a) Groundwater Extraction ⁹	<u>-3,000</u>

Notes

¹ Fang et al., 2021

² Fang et al., 2021

³ Fang et al., 2021

⁴ CEC, 2010

⁵ WorleyParsons, 2009

⁶ Based on RWQCB, 2021, plus extractions of existing cumulative projects.

⁷ CEC, 2010

⁸ CEC, 2010

⁹ Due to rounding, the total does not correspond to the exact sum of all figures shown.

3.11.2. Regulatory Framework

3.11.2.1. Federal Laws, Regulations, and Policies

Clean Water Act (CWA) (33 USC § 1251 et seq.). Formerly the Federal Water Pollution Control Act of 1972, the CWA was enacted with the intent of restoring and maintaining the chemical, physical, and biological integrity of the waters of the United States. The CWA authorizes the USEPA to implement federal water pollution control programs such as setting water quality standards for contaminants in surface water, establishing wastewater and effluent discharge limits for various industry categories, and imposing requirements for controlling point and nonpoint source pollution. At the federal level, the CWA is administered by the U.S. Environmental Protection Agency (USEPA) and USACE. However, the CWA gives states the primary responsibility for protecting and restoring surface water quality. At the state and regional levels, the Act is administered and enforced by the State Water Resources Control Board (SWRCB) and the nine RWQCBs. The Project site is located within the Colorado River Basin Region, over which area the Colorado River Basin RWQCB has primary responsibility for the protection of water quality.

Section 303 of the federal CWA (as well as the Porter-Cologne Water Quality Control Act, discussed further below) requires that states adopt water quality standards. Water quality standards consist of designated beneficial uses, numeric and narrative water quality criteria (also referred to as "water quality objectives" under state law) that protect beneficial uses, as well as the state and federal antidegradation policies. Each RWQCB has a Water Quality Control Plan (Basin Plan) that designates beneficial uses, establishes water quality objectives to protect the beneficial uses, and contains implementation programs and policies to achieve those objectives for all waters addressed through the Basin Plan.

The RWQCB sets water quality objectives to ensure the protection of beneficial uses and the prevention of nuisance, although it is understood that water quality can be changed to some degree without unreasonably affecting beneficial uses (RWQCB, 2019). Current objectives for surface water in the area include those for aesthetic qualities, tainting substances, toxicity, temperature, pH, dissolved oxygen, suspended and settleable solids, dissolved solids, bacteria, biostimulatory substances, sediment, turbidity, radioactivity, chemical constituents, and pesticide wastes. Groundwater objectives include those for taste and odors, bacteriological quality, chemical and physical quality, brines, and radioactivity. The RWQCB has objectives for groundwater overdraft for several specific groundwater basins, but the CVGB is not listed among these (RWQCB, 2019).

Section 402 of the CWA provides that the discharge of pollutants to Waters of the United States from any point source is unlawful unless the discharge is in compliance with a National Pollutant Discharge Elimination System (NPDES) permit. NPDES permits contain industry-specific, technology-based limits and may include additional water quality-based limits, and pollutant-monitoring requirements. An NPDES permit may include discharge limits based on federal or state water quality criteria or standards. Amendments to the CWA added a framework for regulating municipal and industrial stormwater discharges, as well as stormwater discharges from construction sites. In California, the SWRCB and the nine RWQCBs have been delegated permitting authority for discharges regulated by NPDES permits.

The RWQCB administers the NPDES stormwater permitting program. Construction activities disturbing one acre or more of land are subject to the permitting requirements of the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit, Order 2009 0009 DWQ as amended by Orders 2010 0014 DWQ and 2012 0006 DWQ), as described further below. Additionally, the NPDES General Permit for Storm Water Discharges Associated with Industrial Activities (Industrial General Permit, Order 2014 0057 DWQ as amended in 2015 and 2018) regulates discharges of stormwater associated with certain industrial activities, excluding construction activities.

Section 404 of the CWA authorizes the USACE to regulate the discharge of dredged or fill material to the waters of the U.S. and adjacent wetlands. Filling of waters of the U.S. must be avoided where possible and minimized and mitigated where avoidance is not possible. Permits are issued by the USACE.

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Section 401 of the CWA requires that any applicant for a federal license or permit to conduct an activity that may result in a discharge into waters of the U.S. obtain a certification from the State in which the discharge originates that the discharge will comply with the applicable provisions of CWA Sections 301, 302, 303, 306, and 307. This certification ensures that the proposed activity complies with state water quality standards.

Because <u>If</u> the USACE has determined<u>determines</u> that waters on the Project site are not jurisdictional Waters of the United States under the CWA, no NPDES permits under Section 402 or 404 are required, nor is a water quality certification under Section 401. Water quality impacts from the Project will be addressed under state law through Waste Discharge Requirements.

National Flood Insurance Act/Flood Disaster Protection Act. The National Flood Insurance Act of 1968 made flood insurance available for the first time. The Flood Disaster Protection Act of 1973 made the purchase of flood insurance mandatory for the protection of property located in Special Flood Hazard Areas. These laws led to mapping of regulatory floodplains and to local management of floodplain areas according to federal guidelines which include prohibiting or restricting development in flood hazard zones.

Colorado River Accounting Surface. Based on the Colorado River Compact of 1922, and the 1928 apportionment of lower Colorado River water by the U.S. Congress, groundwater in the river aquifer beneath the floodplain is considered Colorado River water, and water pumped from wells on the floodplain is presumed to be river water and is accounted for as Colorado River water (USGS, 2009). The accountingsurface method was developed in the 1990s by the U.S. Geological Survey, in cooperation with the U.S. Bureau of Reclamation, to identify wells outside the floodplain of the lower Colorado River that yield water that will be replaced by water from the river. This method was needed to identify which wells require an entitlement for diversion of water from the Colorado River and need to be included in accounting for consumptive use of Colorado River water as outlined in the Consolidated Decree of the United States Supreme Court in Arizona v. California. The method is based on the concept of a river aquifer and an accounting surface within the river aquifer. Wells within the CVGB that draw water from below the accounting surface require an entitlement for the use of that water (USGS, 2009). Within the Project area, the accounting surface is at elevation 238 to 240 feet (USGS, 2009). Extractions of water below that elevation are prohibited without an entitlement. Entitlements to extract and use the groundwater below the accounting surface are granted by the U.S. Bureau of Reclamation (USBR) through its designated representative in California, the Colorado River Board of California. Entities in California are using California's full apportionment of Colorado River water, meaning that all water is already contracted, and no new water entitlements are available in California.

3.11.2.2. State Laws, Regulations, and Policies

California Streambed Alteration Agreement

Sections 1600–1616 of the California Fish and Game Code require that any entity that proposes an activity that will substantially divert or obstruct the natural flow of any river, stream, or lake, or substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake, or deposit material into any river, stream, or lake, must notify the CDFW. If CDFW determines the proposed alteration will impact a jurisdictional river, stream or lake, a Lake or Streambed Alteration Agreement (LSAA) will be prepared. The LSAA applies to any stream, including ephemeral streams and desert washes.

California Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act (Porter-Cologne Act, Water Code § 13000 et seq.) establishes the SWRCB and each RWQCB as the principal state agencies with primary responsibility to coordinate and control water quality in California, in accordance with Section 303 of the CWA. The SWRCB establishes statewide policy for water quality control and provides oversight of the RWQCBs' operations. The RWQCBs have jurisdiction over specific geographic areas that are defined by watersheds. In addition to other regulatory responsibilities, the RWQCBs have the authority to conduct, order, and oversee investigation and cleanup where discharges or threatened discharges of waste to waters of the State could cause pollution or nuisance, including impacts to public health and the environment. Waters of the State is defined by the Porter-Cologne Water Quality Control Act as "any surface water or groundwater, including saline waters, within the boundaries of the State."

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Actions that involve or are expected to involve discharge of waste to waters of the State (other than into a community sewer system) may be subject to Water Discharge Requirements (WDRs) under the Porter-Cologne Act. The Act requires anyone proposing to discharge waste that could affect the quality of the waters of the State to submit an application to the appropriate RWQCB. The RWQCB staff will review the application and determine whether to propose adoption of WDRs to regulate the discharge, prohibit the discharge, or waive the WDRs. The Porter-Cologne Act also provides a variety of civil and criminal enforcement tools.

State Wetland Procedures. WDRs under the Porter-Cologne Act are issued for discharges of dredged or fill material to waters of the State that are outside federal jurisdiction and not regulated under CWA Section 401. On April 2, 2019, the SWRCB adopted the State Wetland Definition and Procedures for the Discharge of Dredged or Fill Material to Waters of the State (Procedures), which became effective May 28, 2020, and were revised April 6, 2021. Applicants proposing to discharge dredged or fill material are required to comply with the Procedures and obtain WDRs from the appropriate RWQCB unless an exclusion applies, or the discharge qualifies for coverage under a separate order.

The Procedures provide that unavoidable temporary and permanent adverse impacts to waters of the State authorized by WDRs should be offset through compensatory mitigation. Compensatory mitigation means the re-establishment, establishment (creation), rehabilitation, enhancement, and in some circumstances, preservation, of aquatic resources. The permitting authority must determine the compensatory mitigation to be required in the WDRs, based on what would be environmentally preferable.

SWRCB Construction General Permit

The Construction General Permit, issued pursuant to the federal CWA, regulates stormwater runoff from construction sites of one acre or more in size. The permit is a statewide, general order issued by the SWRCB and implemented and enforced by the RWQCBs. For all new qualifying projects, applicants must electronically file permit registration documents using the Stormwater Multiple Application and Report Tracking System (SMARTS) and must include a Notice of Intent (NOI), risk assessment, site map, and Storm Water Pollution Prevention Plan (SWPPP) to be covered by the Construction General Permit prior to beginning construction. The risk assessment and SWPPP must be prepared by a State-qualified SWPPP Developer.

The Construction General Permit requires the preparation and implementation of a SWPPP, which must be prepared before construction begins. At a minimum, a SWPPP includes the following:

- A description of construction materials, practices, and equipment storage;
- A list of pollutants likely to contact stormwater and site-specific erosion and sedimentation control practices;
- A list of provisions to eliminate or reduce discharge of materials to stormwater;

- Best Management Practices (BMPs) for fuel and equipment storage;
- Non-stormwater management measures such as installing specific discharge controls during activities such as paving operations and vehicle and equipment washing and fueling; and
- A commitment that equipment, materials, and workers will be available for rapid response to spills and/or emergencies. All corrective maintenance or BMPs will be performed as soon as possible, depending upon worker safety.

The SWPPP provides specific construction related BMPs to prevent soil erosion and loss of topsoil. BMPs implemented at a typical construction site could include but would not be limited to physical barriers to prevent erosion and sedimentation, construction of sedimentation basins, limitations on work periods during storm events, use of swales, protection of stockpiled materials, and a variety of other measures that would substantially reduce or prevent erosion from occurring during construction. Post-construction requirements require that construction sites match pre-Project hydrology to ensure that the physical and biological integrity of aquatic ecosystems are sustained in their existing condition.

The Construction General Permit prohibits the discharge of pollutants other than stormwater and authorized non-stormwater discharges and prohibits all discharges which contain a hazardous substance in excess of reportable quantities established in 40 CFR §§ 117.3 and 302.4 (pursuant to CWA Section 311). In addition, the Construction General Permit incorporates discharge prohibitions contained in water quality control plans. Discharges to Areas of Special Biological Significance are prohibited unless covered by an exception that the SWRCB has approved. Authorized non-stormwater discharges must be infeasible to eliminate; comply with BMPs as described in the SWPPP; filtered or treated using appropriate technology; meet the established numeric action levels for pH and turbidity; and not cause or contribute to a violation of water quality standards. Discharges to stormwater that cause or threaten to cause pollution, contamination, or nuisance are prohibited. Pollutant controls must utilize best available technology economically achievable (BAT) for toxic pollutants and non-conventional pollutants and best conventional pollutant control technology (BCT) for conventional pollutants.

The CWA provides definitions for the types of controls that can be used to satisfy BAT and BCT requirements. Specific BAT and BCT pollution controls and BMPs may include runoff control, soil stabilization, sediment control, proper stream crossing techniques, waste management, spill prevention and control, and a wide variety of other measures depending on the site and situation.

If a project does not qualify for a notice of non-applicability (NONA), then the Applicant would seek coverage under a Construction General Permit and submit a Notice of Intent and application package.

SWRCB Industrial General Permit

The Industrial General Permit regulates discharges of stormwater to surface waters associated with certain broad categories of industrial activities. The Industrial General Permit requires the implementation of management measures that will achieve the performance standard of BAT for toxic pollutants and nonconventional pollutants and BCT for conventional pollutants. The Industrial General Permit also requires the development of a SWPPP and a monitoring plan. Through the SWPPP, sources of pollutants are to be identified and the means to manage the sources to reduce stormwater pollution are described. The monitoring plan requires sampling of stormwater discharges during the wet season and visual inspections during the dry season.

BMPs may include, but not be limited to, spill and overflow protection, stormwater control, covering of fueling areas, proper clean-up methods, spill prevention, preventative maintenance on equipment, inspections, and training. Specific BMPs vary by situation and site.

SWRCB Policies

The State Antidegradation Policy (Resolution No. 68 16). Discharges of waste to high quality waters must comply with SWRCB Resolution No. 68 16, Statement of Policy with Respect to Maintaining High Quality of Waters in California, which generally requires that high quality waters be protected. Any change in water quality from the discharge of waste must be consistent with maximum benefit to the people of the State, not unreasonably affect present and anticipated beneficial uses, and not result in water quality less than that described in SWRCB or RWQCB policies. Any activity which discharges waste to existing high-quality waters must meet waste discharge requirements and implement the best practicable treatment or control of the discharge necessary to assure that: (a) a pollution or nuisance will not occur and (b) the highest water quality consistent with maximum benefit to the people of the State will be maintained (RWQCB, 2019).

The State Antidegradation Policy also incorporates the federal antidegradation policy which requires the maintenance and protection of existing uses and water quality conditions necessary to support such uses. In addition, the federal antidegradation policy maintains and protects water quality in outstanding national resource waters.

Sources of Drinking Water Policy (Resolution No. 8863). This policy designates all groundwater and surface waters of the States as potential sources of drinking water, worthy of protection for current or future beneficial uses, except where: (a) the total dissolved solids are greater than 3,000 milligrams per liter, (b) the well yield is less than 200 gallons per day (gpd) from a single well, (c) the water is a geothermal resource, or in a water conveyance facility, or (d) the water cannot reasonably be treated for domestic use using either best management practices or best economically achievable treatment practices (RWQCB, 2019).

Water Rights

California water law is embodied in the California Water Code and the Water Commission Act of 1914. There are two basic kinds of rights to surface water: riparian and appropriative. As the Project does not propose the use of surface waters, these rights are not relevant to the Project. Percolating groundwater, under which category the CVGB falls, has no SWRCB permit requirement, and supports two kinds of rights: (a) overlying rights, a correlative right of equal priority shared by all who own overlying property and use groundwater on the overlying property; and (b) groundwater appropriative rights for use of the overlying property or on overlying property for which the water rights have been severed. The right to use groundwater on property that is not as an overlying right is junior to all overlying rights but has priority among other appropriators on a first in time use basis. Overlying users cannot take unlimited quantities of water without regard to the needs of other users.

The California Water Code allows any local public agency that provides water service whose service area includes a groundwater basin or portion thereof that is not subject to groundwater management pursuant to a judgment or other order, to adopt and implement a groundwater management plan (California Water Code §§ 10750 et seq.) Groundwater Management Plans often require reports of pumping and some restrictions on usage. The California Legislature has found that by reason of light rainfall, concentrated population, the conversion of land from agricultural to urban uses and heavy dependence on groundwater, the counties of Riverside, Ventura, San Bernardino, and Los Angeles have certain reporting requirements for groundwater pumping. Any person or entity that pumps in excess of 25 acre-feet (AF) of water in any one year must file a "Notice of Extraction and Diversion of Water" with the SWRCB. (California Water Code §§ 4999 et seq.)

The Project is located on land that overlies the CVGB, for which a method was developed by the USGS, in cooperation with the USBR, to identify groundwater wells outside the floodplain of the lower Colorado

River that yield water that will be replaced by water from the river. The specific method to determine whether wells draw water from the Colorado River (referred to as the accounting surface) has not been promulgated by the USBR. However, wells placed into the groundwater beneath and within the Project's vicinity that extract groundwater may, depending on whether the groundwater surface is above or below the accounting surface, be considered as drawing water from the Colorado River and require an entitlement to extract groundwater.

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California Senate Bill (SB) 610

SB 610, passed in 2002, amended the California Water Code to require detailed analysis of water supply availability for certain types of development projects, and to improve the link between information on water supply availability and certain land use decisions made by cities and counties. SB 610 requires detailed information regarding water availability to be provided to city and county decisionmakers prior to approval of specified large development projects. SB 610 requires that a project be supported by a Water Supply Assessment if the project is subject to the California Environmental Quality Act, and would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project. According to SB 610 Guidelines, one dwelling unit typically consumes 0.3 to 0.5 acrefeet per year (AFY), which would amount to 150 to 250 AFY for 500 units meets any of the criteria in Water Code section 10912 and 14 Cal Code Regs section 15155(a)(1).

3.11.2.3. Local Laws, Regulations, and Policies

Riverside County Ordinance No. 682 (As Amended Through 682.4)

This ordinance regulates the construction, reconstruction, abandonment, and destruction of wells and incorporates by reference Ordinance No. 725 (Penalties for Violations of Riverside County Ordinances). The purpose of this ordinance is to provide minimum standards for construction, reconstruction, abandonment, and destruction of all wells to: (a) protect underground water resources; and (b) provide safe water to persons within Riverside County. The provisions of this ordinance within its jurisdiction are enforced by the Riverside County Department of Environmental Health.

Ordinance No. 650 (As Amended Through 650.6)

Ordinance 650 regulates the discharge of sewage in the unincorporated areas of the County of Riverside and incorporating by reference the Riverside County Local Agency Management Program (LAMP) for Onsite Wastewater Treatment Systems. This ordinance protects water quality and public health by establishing regulations for the installation, replacement, and performance of Onsite Wastewater Treatment Systems. This ordinance provides minimum standards for construction, operation, and abandonment of Onsite Wastewater Treatment Systems (OWTSs). An OWTS is any individual on-site wastewater treatment, pretreatment and dispersal system including, but not limited to, a conventional or alternative OWTS having a subsurface discharge. The LAMP presents County of Riverside OWTS policy, regulations, and standards.

The development and operation of the proposed Project would be done in compliance with County ordinances regulating wells and sewage discharges and protecting water resources.

3.11.3. Methodology for Analysis

The impact analysis analyzes potential direct, indirect, and cumulative impacts of the proposed Project on water resources, including the Project's potential to adversely affect groundwater supplies, alter geomorphic features/processes, modify drainage and flooding conditions, induce erosion and sedimentation, and

degrade water quality. The analysis also considers the potential for incremental impacts of the Project to combine with impacts of other projects and activities to adversely affect water resources. Mitigation measures to avoid or reduce potential impacts are identified, and the potential for residual impacts is evaluated.

3.11.4. CEQA Significance Criteria

The criteria used to determine the significance of potential hydrology and water quality impacts are based on Appendix G of the State CEQA Guidelines. The Project would result in a significant impact under CEQA related to hydrology and water quality if the Project would:

- Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality (See Impact HWQ-1).
- Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin (See Impact HWQ-2).
- Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:
 - result in substantial erosion or siltation on- or off-site (See Impact HWQ-3A);
 - substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite (See Impact HWQ-3B);
 - create or contribute runoff water which would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff (See Impact HWQ-3C); or
 - *impede or redirect flood flows (Impact HWQ-3D).*
- Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan (See Impact HWQ-1).

The County of Riverside's Environmental Assessment Form includes additional significance criteria, which were also used in the analysis. The additional criteria indicate that a project could have potentially significant impacts if it would:

- Cause changes in absorption rates or the rate and amount of surface runoff (See Impact HWQ-3);
- Cause changes in the amount of surface water in any water body (See Impact HWQ-3 and HWQ-3);
- Substantially degrade water quality (See Impact HWQ-1); or
- Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam (See Impact HWQ-4).

The following CEQA significance criteria from Appendix G were not included in the analysis:

■ In flood hazard, tsunami or seiche zones, risk release of pollutants due to project inundation?

There is no body of water in the area that could produce a tsunami or seiche. There is therefore no impact related to seiche or tsunami.

The following CEQA significance criterion from the County's Environmental Assessment Form were not included in the analysis:

Include new or retrofitted Storm Water Treatment Control BMPs (e.g., water quality treatment basins, constructed treatment wetlands), the operation of which could result in significant environmental effects (i.e., increased vectors and/or odors).

No new or retrofitted Storm Water Treatment Control BMPs are included in the proposed Project. Therefore, this criterion is not applicable to the Project.

3.11.5. Applicable Best Management Practices

A Stormwater Pollution Prevention Plan (SWPPP) or SWPPP-equivalent document would be prepared by a qualified engineer or erosion control specialist, and once approved by the State Water Resources Control Board and a BLM hydrologist, would be implemented before and during construction. The SWPPP would reduce potential impacts related to erosion and surface water quality during construction activities and throughout the life of the solar and storage facility. It would include Project information and best management practices (BMPs). The BMPs would include stormwater runoff quality control measures, management for concrete waste, stormwater detention, watering for dust control, and construction of perimeter silt fences, as needed.

3.11.6. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to hydrology and water quality. Regarding surface water, concerns were raised about the potential for floods due to the modification of washes and removal of vegetation, creating impacts to stormwater runoff. The public also expressed concerns that flash floods could cause undetermined changes in erosion patterns.

Issues related to water resources, hydrology, and water quality raised during scoping include the quantity of water needed for the Project and the source of the groundwater. Comments included specific questions regarding groundwater availability and water quality in the CVGB, such as groundwater pumping, pollution, and the effect on regional aquifers and existing community and domestic water supply infrastructure and project maintenance operations (e.g., weed abatement) impacting groundwater quality. Commenters also recommend that BLM require all applicable Conservation and Management Actions (CMAs) from the Desert Renewable Energy Conservation Plan (DRECP) to prevent groundwater overdraft.

Commenters recommended that the impacts of changing precipitation patterns due to climate change should be analyzed, and this should be considered regarding groundwater availability and when developing a stormwater plan. The placement of panels within and adjacent to washes should be analyzed and designed to minimize impacts. Multiple commenters suggested that there would be impacts to jurisdictional Waters of the U.S. and Waters of the State of California, and surface hydrology on the site. The California Department of Fish and Wildlife (CDFW) recommended micro-siting the Project to avoid and protect ephemeral drainages or desert washes and dry wash woodlands. The U.S. EPA recommends a revised site plan to avoid critical habitat, as prescribed by CMAs.

These concerns are addressed in the analysis below. Note that the purpose of the Water Supply Assessment (EIR Appendix G) according to the DRECP LUPA is to determine whether over-use or over-draft conditions exist within the project basin(s), and whether the project creates or exacerbates these conditions. Compliance with DRECP CMAs will be determined by BLM during the NEPA process and is outside of the scope of CEQA. In accordance with SB 610, the Water Supply Assessment also addresses whether available water supplies will meet the Project's water demands in addition to existing and planned future uses.

Groundwater Budget with the Project in Place

In June 2023, BLM issued a Proposed Rule to amend its existing ROW regulations, issued under authority of the Federal Land Policy and Management Act (FLPMA), and is considering issuing Right-of-Way (ROW) grants for durations of up to 50 years (BLM, 2023). To prepare for potential issuance of a 50-year ROW grant by the BLM and to determine whether there are sufficient supplies to sustain the Project, the Easley

WSA (EIR Appendix G) conservatively extends the total projected period of the Project to 52-years. For the purpose of the CVGB water budget (see GSI, 2024 Section 6) and predictive Project water demand impacts analysis (see GSI, 2024 Sections 5.4 and 7) presented herein, 52 years is equivalent to the projected total duration of the Project, including construction (20 months), operations (48 years), and decommissioning (20 months).²⁹

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The CVGB is assumed to be the water source for all groundwater demand (i.e., groundwater would not be imported from outside of the CVGB). Total water use by the Project would be up to 1,000 AF during the planned 20-month construction period³⁰ and up to 50 AFY during the Project's operational and decommissioning periods.³¹ Based upon these quantities of water demand, a total of approximately 3,500 AF of water would be used by the Project over the Project's construction, operational, and decommissioning periods (52 years [i.e., 2-year construction period, 48-year operational period, and 2-year decommissioning period]).

Based on the <u>groundwater</u> budget balance <u>givenpresented</u> in Table 3.11-1, the CVGB under average-year conditions would have a <u>cumulative</u>-surplus of 5,200 AF <u>at the end ofduring</u> the 52-year period. The net CVGB surplus with the Project in place would therefore be 1,700 AF, or 33 percent of the surplus that would exist without the Project. <u>Using the DWR (2020a) estimated annual groundwater pumping, the net CVGB surplus with the Project in place would be 74,500 AF, or 96 percent of the surplus that would exist <u>without the Project in place would be 74,500 AF</u>, or 96 percent of the surplus that would exist <u>without the Project</u>. By contrast, using the reduced recharge rates for precipitation and underflow (Table 3.11-2), the 52-year deficit without the Project would be 228,800 AF, increased to 232,300 AF by the Project. The Project would contribute about 2 percent to this cumulative deficit.</u>

According to SB 610 guidelines, a dry year can be considered a year with a precipitation amount that is at 10 percent probability of occurrence. A critical dry year would be a year with 3 percent probability. The historical precipitation data at Blythe, California, approximately 35 miles east of the Project and at a similar elevation with similar climate, was used as a reference. Historical precipitation data for Blythe, dating from 1893 to 2014, was obtained from the U.S. Historical Climatology Network (NOAA, n.d.[b]). A nearby station at the Blythe Airport (NOAA, n.d.[a]) was used to supplement additional data for up to the year 2021.

The baseline groundwater budgets for a dry year and critical dry year are expected to have a deficit of approximately 5,900 AF for a dry year, increasing to 7,100 AF for a critical dry year. Using the reduced estimates of precipitation and underflow recharge, each scenario, dry year and critical dry year, would have annual groundwater deficits, amounting to 8,000 AFY and 8,700 AFY, respectively.

For a single dry year and single critical dry year with the Project in place, the worst-case scenario is for one of those year types, dry or critical dry, to occur during the construction period of the Project (assumed to be 2024 to 2025) in which up to 1,000 AF of water would be used. If a dry year or critical dry year occurs during this period, the CVGB annual deficit would be approximately 6,400 AF and 7,600 AF, respectively. The Project would increase the dry year and critical dry year deficit by 8 and 7 percent, respectively, if one of those year types were to occur during the construction period of the Project. Assuming normal preci-

²⁹ Although the estimated Project construction period and decommissioning period described in the EIR Chapter 2 (Project Description) is 20 months, the water budgets (see GSI, 2024 Section 6) and Cone of Depression and Cumulative Drawdown Analysis (see GSI, 2024 Section 7), were developed in 1-year time steps, and therefore, assume the same overall water usage but over Project construction and decommissioning periods of 2 years.

³⁰ As described in EIR Section 2.3.11, the Applicant has updated its construction water requirements in the Partially Recirculated Draft EIR based on water usage data obtained following construction of other projects in the area, such as the Oberon Renewable Energy Project. The analysis in EIR Section 3.11 (Hydrology and Water Quality) and EIR Appendix G (Water Supply Assessment) conservatively still assumes use of 1,000 AF during construction.

³¹ It is assumed that Project decommissioning would take approximately 20 months, similar to the construction duration, and have the same water use as Project operations (approximately 50 acre-feet per year). Project decommissioning would occur in accordance with an agency-approved Closure and Decommissioning Plan. The Project Closure and Decommissioning Plan will include an evaluation of alternate water sources and impacts, if any, in accordance with the DRECP LUPA.

pitation returns, this total deficit (dry year plus Project use) would not be recovered during the 52-year period, with or without the Project, <u>under baseline groundwater budget assumptions</u>.

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If a dry year or critical dry year occurs during the Project construction period, using the DWR (2020a) estimated annual groundwater pumping, the CVGB annual deficit would be approximately 5,000 AF and 6,200 AF, respectively (Budget Balance Using DWR [2020a] rows in Tables 6 and 7 minus 500 AFY [1,000 AF / 2 years]). The Project would increase the dry year and critical dry year deficit by 11 and 9 percent, respectively. Assuming normal precipitation returns (see Table 4), this total deficit (dry year plus Project use and critical day year plus Project use) would be recovered in less than 4 years and 5 years, respectively, with the Project in place.

The longest consecutive series of years with below average precipitation on record at Blythe was 12 years, from 1893 to 1904. During this period, the average annual precipitation was 1.42 inches, or about 42 percent of the overall average. This period was considered to be representative of a series of multiple dry years for the Project WSA. Development of a 12-year groundwater budget, assuming a repeat of the 1893 to 1904 drought at Blythe, without Project conditions, indicates the cumulative groundwater deficit would be approximately 60,950 AF at the end of the 12-year period. Using the reduced estimates of precipitation and subsurface recharge, at the end of the 12-year period the cumulative groundwater deficit would be approximately 87,570 AF. Using the DWR (2020a) estimated annual pumping, the 12-year CVGB groundwater deficit would be approximately 44,150 AF.

The precipitation record indicates that a series of dry years has typically been followed by a series of years with above-average precipitation. To assess the probable effect of this over the 52_year life of the Project, a 52_year running average analysis was made of-using the 129-year precipitation period of record. The driest 52-year period was the period beginning in 1893 and ending in 1944. Average annual precipitation during this period was 3.44 inches, or about 1 percent greater than normal. If a repeat of this 52-year period occurs under current (no qualifying projects not already in place) conditions, at the end of the 52-year period the CVGB would have a deficit-surplus of approximately 21,060 AF assuming adopted precipitation normal and infiltration and underflow conditions (see Tables 3.11-1 and 3.11-2). The greatest groundwater deficit during the repeated droughthistorical period would occur during 2039, in which the total deficit would be approximately 64,170 AF. Using reduced recharge data, the same analysis results in a groundwater deficit totaling approximately 214,020 AF after 52 years.

Using the DWR (2020a) estimated annual pumping, at the end of the 52-year period the CVGB would have a surplus of approximately 93,860 AF assuming normal infiltration and underflow conditions (see Table 4). The greatest groundwater deficit during the repeated historical period would occur during 20398, in which the total deficit would be approximately 412,7760 AF.

The same analysis with the Project in place gives similar results as the one without Project conditions, with a total groundwater surplus of approximately 17,530 AF at the end of 52 years. Using reduced recharge data, the same analysis, with the Project in place, results in a groundwater deficit totaling approximately 217,520 AF after 52 years. Using the DWR (2020a) estimated annual pumping, at the end of the 52-year period the total groundwater surplus would be approximately 90,330 AF.

Impact HWQ-1. Would the Project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? Would the Project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

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Surface Water

LESS THAN SIGNIFICANT WITH MITIGATION. Construction of the Project would require ground-disturbing activities (excavation, grading, and compaction) of a minority of the ground surface (about 2.7 percent) of the Project site for access roads, buildings, substation, and other features. In addition, approximately 5<u>3</u>4 percent of the Project site would be levelled and smoothed for the solar facility. These ground-disturbing activities, described in more detail in Tables 2-2 and 2-3 of Section 2, could result in soil erosion and lowered water quality through increased turbidity and sediment deposition into local ephemeral streams. Downstream beneficial uses could be adversely affected through violation of RWQCB water quality standards and objectives for suspended solids, total dissolved solids, sediment, and turbidity.

Accidental spills or disposal of harmful materials used during construction of the Project could wash into and pollute surface waters. Materials that could contaminate the construction area or spill or leak include diesel fuel, gasoline, lubrication oil, cement slurry, hydraulic fluid, anti-freeze, transmission fluid, lubricating grease, and other fluids. Downstream beneficial uses could be adversely affected through violation of RWQCB water quality objectives for toxicity and chemical constituents. Likely downstream beneficial uses in the Project area include GWR and WILD.

The dry nature of most of the surface streams is such that should harmful material spills occur during construction, these could easily be cleaned up prior to surface water being contaminated. Storage procedures for hazardous materials during construction would be dictated by the Hazardous Materials Plan (HMP) that would be prepared prior to construction. Trucks and construction vehicles would be serviced from off-site facilities. The use, storage, transport, and disposal of hazardous materials used in construction of the facility would be carried out in accordance with federal, state, and county regulations. Other construction wastes would be collected and recycled or disposed of in municipal county landfills.

The Applicant has committed to development and adherence to an SWPPP or SWPPP-equivalent document, which will require BMPs to prevent and control erosion and siltation during construction; prevent, contain, and mitigate accidental spills during construction; and prevent violation of water quality objectives or damaging beneficial uses identified in the water quality control plan.

Potential threats to surface water quality during operation and maintenance activities include potential increases in erosion and associated sediment loads to adjacent or downstream washes, and accidental spills of hydrocarbon fuels, greases, and other materials associated with operation of equipment on site. The Project would include electrical transformers, modifications to an existing electrical substation, an operations and maintenance building, and battery storage systems (BESS). There would be regulated hazardous materials on site. These materials are not intended to be released to the environment, but if spilled or otherwise accidentally released they could have the potential to contaminate surface. The HMP would be prepared to provide protocols for containment and clean-up of spills.

Alterations to site topography due to the site preparation would affect both RWQCB and CDFW jurisdictional waters of the State that traverse the Project site. Surface flow patterns would be affected by alteration to jurisdictional waters of the State (unvegetated ephemeral washes and desert wash woodland) on the site which could result in increased siltation or downstream erosion. Drainage controls, including berms and potentially channels, would be required in some areas to capture and direct stormwater flow around Project facilities such as the BESS. Construction of the Project would avoid most desert dry wash woodland in accordance with BLM's CMA LUPA-BIO-RIPWET 1. Changes to streambeds classified as RWQCB and CDFW jurisdictional waters of the State would require the Applicant to obtain a LSAA from the CDFW and a waste discharge (WDR) permit from the Colorado River Basin RWQCB. The LSAA and WDR <u>will require the Project to avoid and minimize impacts to surface waters (through conditions of approval and BMPs) and</u> may require compensatory mitigation for impacts to waters of the State. Impacts related to surface water degradation due to alterations to waters of the State would be minimized or prevented through compliance with CDFW and RWQCB regulations and permits and implementation of Mitigation Measures (MM) BIO-3 (Minimization of Vegetation and Habitat Impacts), MM BIO-5 (Vegetation Resources Management Plan), MM BIO-13 (Streambed and Watershed Protection), MM HWQ-1 (Drainage Erosion and Sedimentation Control Plan (DESCP)), and MM HWQ-5 (Project Drainage Plan).

7-9

Existing State and federal water quality regulations, including the proposed SWPPP, are intended to ensure that water quality standards and waste discharge standards are not violated during construction or operations. However, portions of the site would be subject to flooding. Although mass grading is not proposed, some ground disturbance is expected, and some of the solar panels and other proposed structures would be placed in areas that are subject to flooding, creating a potential for erosion and sedimentation leading to potential water quality impacts during operations. Mitigation Measure HWQ-1 requires the development of a Drainage Erosion and Sedimentation Plan that would address and mitigate erosion impacts during construction and operations.

Decommissioning of the Project is expected to result in adverse impacts related to water resources similar to construction impacts. Work could result in potential increases in sediment loads to adjacent streams and washes and/or accidental spills of hydrocarbon fuels and greases and other materials associated with motorized equipment and construction work. <u>However, decommissioning activities would be subject to the same state and federal water quality regulations discussed above, as well as the mitigation measures applicable during construction of the Project, which would minimize potential water quality impacts. Accordingly, impacts related to surface water quality would be less than significant with mitigation.</u>

Groundwater

Less THAN SIGNIFICANT WITH MITIGATION. Groundwater quality impacts could occur during construction if contaminated or hazardous materials used during construction were to be released and allowed to migrate to the groundwater table. Given adherence to the Project Hazardous Materials Business Plan and the NPDES General Permit for Construction Activities, the potential for such impacts to groundwater quality are low.

The Project would produce sanitary wastewater from the O&M building, which would be treated and disposed of at the Project using a septic disposal system. The federal (EPA), state (RWQCB) and local (Riverside County Department of Environmental Health) governments have requirements for septic system design, including requirements for percolation, vertical distance from the groundwater table, and setback from the nearest groundwater well. The use and application of septic fields is an established practice as a method of wastewater treatment. The use of a septic system within the designed system capacity is not anticipated to cause groundwater quality degradation.³²

DWR has categorized the CVGB as a <u>very</u> low-priority basin under the SGMA (DWR, 2020<u>a</u>). Per SGMA, due to the CVGB classification as a <u>very</u> low-priority basin, a Groundwater Sustainability Plan (GSP) is not required to be developed for the CVGB. As of this writing, no GSP has been developed for the CVGB.

The Project is located in the jurisdiction of the Colorado River Basin RWQCB. The Water Quality Control Plan developed by the RWQCB establishes water quality objectives, including narrative and numerical

³² Use of a septic system is subject to regulatory approval and issuance of an applicable permit.

standards, to protect the beneficial uses of surface water and groundwater in the region. The Water Quality Control Plan describes implementation plans and other control measures designed to ensure compliance with statewide plans and policies and documents comprehensive water quality planning. The Water Quality Control Plan for the Colorado River Basin Region (RWQCB, 2019) lists specific beneficial uses for groundwater. Beneficial uses of the groundwater in the CVGB are Municipal and Domestic Supply (MUN), Industrial Service Supply (IND), and Agriculture Supply (AGR).

7-9

Total dissolved solids (TDS) concentrations across the CVGB range from 274 milligrams per liter (mg/L) to 12,300 mg/L. The lowest TDS concentrations are in the western portion of the CVGB, where TDS concentrations range from 275 to 730 mg/L (DWR, 2004). In the northwest portions of the CVGB, arsenic concentrations have ranged from 9 micrograms per liter (μ g/L) to 25 μ g/L (GEI, 2010). Water quality in the CVGB has concentrations of sulfate, chloride, fluoride, and TDS that are higher than recommended levels for drinking water use. Likewise, elevated concentrations of boron, TDS, and percent sodium impair groundwater for irrigation use. In general, groundwater in the CVGB is sodium chloride to sodium sulfate-chloride in character (DWR, 2004).

Recent available water quality data near the proposed Project is limited to four wells, with nitrate being the only constituent analyzed in three of the four wells. Reported nitrate concentrations in all four wells were below the federal and California Maximum Contaminant Level of 10 mg/L (nitrate measured as nitrogen).

Pursuant to BLM (2016a and 2016b) requirements, a WSA must include an analysis of "estimates of the total cone of depression considering cumulative drawdown from all potential pumping in the basin, including the project, for the life of the project through the decommissioning phase." To evaluate the potential cone of depression induced by proposed Project groundwater pumping and cumulative drawdown from all cumulative projects (see GSI, 2024 Table 12), a predictive MODFLOW groundwater model (Model) was developed and projected for the 52-year duration of the Project. The Model incorporated estimated inflow and outflow terms consistent with the Project water budget presented in Section 6 of GSI-the WSA (2024) as well as hydrogeological properties used in the Fang et al. (2021) numerical groundwater model.

The Project impacts are discussed in terms of the zones of influence of the total cone of depression considering cumulative-drawdown as a result of the Project, cumulative projects, and the CVGB projected agricultural, municipal, and domestic pumping. The zone of influence after 2 years of Project construction pumping (500 AFY) is an approximately 4.5-mile radius cone of depression out to 0.5 feet of drawdown. Project operational and decommissioning pumping (50 AFY) for 50 years has a cumulative drawdown with an approximately 15-mile radius out to 0.5 feet of drawdown. This zone of influence also includes pumping from cumulative projects.

The modeling results indicate that impacts to groundwater levels as a result of Project and cumulative project pumping are confined to the northwestern part of the CVGB. Although most of the non-cumulative project pumping (see GSI, 2024 Section 5.8.2) in the CVGB occurs in the northwestern part of the CVGB, total agricultural, municipal, and domestic pumping is limited and the magnitude of the simulated drawdown is not anticipated to adversely affect existing water users and water rights claimants in the CVGB CVGB (the total agricultural, municipal, and domestic pumping is limited to adversely 7,900 AFY [CEC, 2010]), cumulative project pumping is not anticipated to adversely affect existing water users and water rights claimants in the CVGB due to the limited magnitude of the simulated drawdown (see the previous paragraph).

Based on the simulated drawdown due to Project and cumulative project pumping, and the size and storage capacity of the CVGB, the Project is not anticipated to result in changes in water quality that affect other beneficial uses Based on the limited magnitude of the simulated drawdown due to Project pumping,

groundwater levels would not be lowered to a level that would cause a degradation of groundwater quality that affects other beneficial uses. Additionally, groundwater levels would not be lowered to a level that causes pumping wells near the Project to begin to capture deeper/older groundwater within the CVGB. Deeper/older groundwater typically contains increased salts and nutrients as a result of prolonged exposure to the aquifer material (leaching of minerals from the host rock into groundwater) (USGS, 2019). In addition, there are no known point source plumes near the Project. Therefore, there are no known contaminant plumes Project pumping could potentially mobilize.

7-9

Although there is no sustainable groundwater management plan for the CVGB with which the Project could conflict, the Project would not adversely impact the sustainable management of the CVGB, as discussed further below in Impact HWQ-2.

Mitigation Measures (MMs) to reduce Impact HWQ-1 include MM HWQ-1 (Drainage Erosion and Sedimentation Plan) and MM HWQ-2 (Septic System Review and Permitting) which would enable the Riverside County Department of Environmental Health to ensure that the Project is compliant with Riverside County, RWQCB, and EPA regulations and protective of water quality. Mitigation Measure HWQ-3 (Palo Verde Mesa Groundwater Basin Protection) would implement a<u>includes the development</u> of a Colorado River Water Supply Plan (CRWSP) to monitor groundwater extractions from the Applicant owned and/or operated on-or off-site well(s) to ensure that groundwater extractions do not go below the Colorado River Accounting Surface. HWQ-4 (Groundwater Monitoring, Reporting, and Mitigation Plan ([GMRMP]] would be implemented for the Project in coordination with the RWQCB and BLM to ensure that groundwater wells surrounding Project supply well(s) are not adversely affected (i.e., chronic lowering of groundwater levels and degradation of groundwater quality) by Project activities.³³ Thus, impacts would be less than significant.

Mitigation Measures for Impact HWQ-1

MM BIO-3	Minimization of Vegetation and Habitat Impacts. See full text in Section 3.5 (Biological Resources).
MM BIO-5	Vegetation Resources Management Plan. See full text in Section 3.5 (Biological Resources).
MM BIO-13	Streambed and Watershed Protection. See full text in Section 3.5 (Biological Resources).
MM HWQ-1	Drainage Erosion and Sedimentation Control Plan (DESCP). See full text in Section 3.11.9 (Mitigation Measures).
MM HWQ-2	Septic System Review and Permitting. See full text in Section 3.11.9 (Mitigation Measures).
MM HWQ-3	Palo Verde Mesa Groundwater Basin (PVMGB) Protection. See full text in Section 3.11.9 (Mitigation Measures).
<u>MM HWQ-4</u>	Groundwater Monitoring, Reporting, and Mitigation Plan (GMRMP). See full text in Section 3.11.9 (Mitigation Measures).

MM HWQ-5 Project Drainage Plan. See full text in Section 3.11.9 (Mitigation Measures).

³³ Groundwater quality thresholds are pursuant to federal and state regulations, including the Water Quality Control Plan for the Colorado River Basin Region (RWQCB, 2019).

Significance After Mitigation

This impact would be less than significant with the implementation of recommended mitigation measures.

7-9

Impact HWQ-2. Would the Project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin?

Less THAN SIGNIFICANT WITH MITIGATION. In June 2023, BLM issued a Proposed Rule to amend its existing ROW regulations, issued under authority of the Federal Land Policy and Management Act (FLPMA), and is considering issuing ROW grants for durations of up to 50 years (BLM, 2023). To determine whether there are sufficient supplies to sustain the Project, the Easley WSA (EIR Appendix G) extends the total projected period of the Project to 52-years. For the purpose of the CVGB water budget (see GSI, 2024 Section 6) and predictive Project water demand impacts analysis (see Sections GSI, 2024 5.4 and 7), 52 years is equivalent to the projected total duration of the Project, including construction (20 months), operations (48 years), and decommissioning (20 months).³⁴ Based upon these quantities of water demand, a total of approximately 3,500 AF of water will be used by the Project over the Project's construction, operational, and decommissioning periods (52 years [i.e., 2-year construction period, 48-year operational period, and 2-year decommissioning period]).

Water for construction, operation, and decommissioning would be obtained from several potential sources, including an on-site groundwater well, an off-site groundwater well, and trucked from an off-site water purveyor. However, it is assumed all Project water needs would be sourced from the CVGB. Groundwater has been identified as the primary source of water in the CVGB. DWR has categorized the CVGB as a <u>very low-priority basin under SGMA (DWR, 2020a) and based on the adopted water budget components (primarily based on Fang et al. [2021]) in the Project WSA (GSI, 2024), the CVGB is not in a state of overdraft.</u>

In accordance with SB 610 and the DRECP Land Use Plan Amendment (LUPA), and to determine whether there are sufficient supplies to sustain the Project, a 52-year water budget was developed for the Project. The water budget uses information summarized in Section 3.11 to provide a baseline normal-year groundwater budget for the CVGB. The water budget also includes a normal-year groundwater budget assuming the Project is in place. A second groundwater budget was developed for the Project WSA using lower input estimates (see Section 3.11.1.2 and GSI, 2024, Sections 5.7 and 5.8). The same approach was repeated for both water budgets for single and multiple dry-year scenarios. Details and the results of the analysis are summarized in Section 3.11.1.2 and presented in the Project WSA (GSI, 2024).

The CVGB under average-year conditions would have a cumulative-surplus of 5,200 AF at the end of the 52-year period. The net CVGB surplus with the Project in place would therefore be 1,700 AF, or 33 percent of the surplus that would exist without the Project. <u>Using the DWR (2020a) estimated annual groundwater pumping, the net CVGB surplus with the Project in place would be 74,500 AF, or 96 percent of the surplus that would exist without the Project. Thus, with the Project in place, groundwater in storage and groundwater levels in the CVGB would be expected to increase over the life of the Project. By contrast, using the reduced recharge rates for precipitation and underflow (see Table 5), the 52_year deficit without the Project would be 228,800 AF, increased to 232,300 AF by the Project. The Project would contribute about 2 percent to this cumulative deficit.</u>

³⁴ Although the estimated Project construction period and decommissioning period described in the EIR Chapter 2 (Project Description) is 20 months, the water budgets (see GSI, 2024 Section 6) and Cone of Depression and Cumulative Drawdown Analysis (see GSI, 2024 Section 7), were developed in 1-year time steps, and therefore, assume the same overall water usage but over Project construction and decommissioning periods of 2 years.

Using the reduced estimates of precipitation and underflow recharge, <u>F</u>for a single dry year and single critical dry year with the Project in place, the worst-case scenario is for one of those year types, dry or critical dry, to occur during the construction period of the Project (assumed to be 2024 to 2025) in which the Project would increase the dry year and critical dry year deficit by 8 and 7 percent, respectively. Assuming normal precipitation returns, this total deficit (dry year, or critical dry year, plus Project use) would not be recovered during the 52-year period (with or without the Project). Using reduced inflow data, these deficits would increase by 6 percent. The likelihood that a dry or critical dry year would occur during Project construction is 10 percent and 3 percent, respectively. If a dry year or critical dry year were to occur during Project construction, it would not result in groundwater overdraft of the CVGB, which is defined as the condition of a groundwater basin in which the amount of water withdrawn by pumping exceeds the amount of water that recharges the basin over a period of many years during which water supply conditions approximate average conditions. The deficit associated with a dry or critical dry year during construction does not approximate average conditions and, further, would be limited to those years, after which average conditions (resulting in an annual groundwater surplus, as discussed above) would be expected to return.

If a dry year or critical dry year occurs during the Project construction period, using the DWR (2020a) estimated annual groundwater pumping, the CVGB annual deficit would be approximately 5,000 AF and 6,200 AF, respectively (Budget Balance Using DWR [2020a] rows in GSI, 2024 Tables 6 and 7 minus 500 AFY [1,000 AF / 2 years]). The Project would increase the dry year and critical dry year deficit by 11 and 9 percent, respectively. Assuming normal precipitation returns (see 3.11-1), this total deficit (dry year plus Project use and critical day year plus Project use) would be recovered in less than 4 years and 5 years, respectively, with the Project in place. The Project also would implement various construction techniques designed to reduce overall water use during construction, including using "overland travel," designating primary travel routes, limiting grading, using approved soil binders in lieu of water, utilizing small rubber-wheel vehicles, and phasing construction, as described in Chapter 2.

Historically, dry and critical dry years do not occur over multiple consecutive years. Rather, the precipitation record indicates that a series of dry years has typically been followed by a series of years with aboveaverage precipitation. To assess the probable effect of this over the 52-year life of the Project, the WSA analyzed a 52-year running average using the 129-year precipitation period of record. Using the driest 52year period recorded at the Blythe Airport meteorological station, the WSA indicates there would be a 21,060 AF surplus in the CVGB if there were a repeat of this 52-year period under current conditions. wWith the Project in place, there would be a total groundwater surplus of approximately 17,530 AF at the end of 52 years. Using reduced recharge data, the same analysis, with the Project in place, results in a groundwater deficit totaling approximately 217,520 AF after 52 years. Using the DWR (2020a) estimated annual pumping, at the end of the 52-year period the total groundwater surplus would be approximately 90,330 AF with the Project in place.

Thus, using the normal (average) conditions groundwater budget presented in Table 3.11-1, the available water supplies during normal, single dry, and multiple dry water years from the CVGB would meet the projected water demands of the Project, in addition to existing uses and planned future uses (see GSI, 2024 Table 15 for the 52-year projection.

The Project has a limited overall water demand and, further, would require very little water each year for operation; however, the WSA considered the potential for the Project to result in localized impacts to existing wells. Groundwater use during the Project's construction, operation, and decommissioning would cause drawdown in the immediate vicinity of the well(s) used to produce groundwater for the Project. Pursuant to BLM (2016a and 2016b) requirements, a WSA must include an analysis of "estimates of the total cone of depression considering cumulative drawdown from all potential pumping in the basin, including the project, for the life of the project through the decommissioning phase." To evaluate the

potential cone of depression induced by proposed Project groundwater pumping and cumulative drawdown from all cumulative projects (see GSI, 2024 Table 12), a predictive MODFLOW groundwater model (Model) was developed and projected for the 52-year duration of the Project. The Model incorporated estimated inflow and outflow terms consistent with the Project water budget presented in Section 6 of GSI the WSA (GSI, 2024) as well as hydrogeological properties used in the Fang et al. (2021) numerical groundwater model.

7-9

The Project Impacts are discussed in terms of the zones of influence of the total cone of depression considering cumulative drawdown as a result of the Project, cumulative projects, and the CVGB projected agricultural, municipal, and domestic pumping. The zone of influence after 2 years of Project construction pumping (500 AFY) is an approximately 4.5-mile radius cone of depression out to 0.5 feet of drawdown. Project operational and decommissioning pumping (50 AFY) for 50 years has a cumulative drawdown with an approximately 15-mile radius out to 0.5 feet of drawdown. This zone of influence also includes pumping from cumulative projects.

The modeling results indicate that impacts to groundwater levels as a result of Project and cumulative project pumping are confined to the western part of the CVGB. Although most of the non-cumulative project pumping (see GSI, 2024 Section 5.8.2) in the CVGB occurs in the western part of the CVGB (the total agricultural, municipal, and domestic pumping is limited to approximately 7,900 AFY [CEC, 2010]), cumulative project pumping is not anticipated to adversely affect existing water users and water rights claimants in the CVGB due to the limited magnitude of the simulated drawdown (see the previous paragraph).

Additionally, the Project is not anticipated to cause lowering of groundwater to levels greater than the recorded historical lows and there is no reported evidence of subsidence in the CVGB as a result of either historical or present pumping (GEI, 2010a). Based on available data from CGPS stations located in the CVGB, Orocopia Valley Groundwater Basin, and Palo Verde Mesa (POR from 1996 through present) Groundwater Basin, no significant land subsidence has been recorded. Therefore, the Project is not anticipated to cause subsidence, increase the rate of subsidence, or cause loss of aquifer storage capacity in the CVGB. The Project also would develop a GMRMP in coordination with the RWQCB and BLM to ensure that groundwater wells surrounding Project supply well(s) are not adversely affected (i.e., chronic lowering of groundwater levels) by Project activities (MM HWQ-4).

Finally, due to the CVGB's location adjacent to the Palo Verde Mesa Groundwater Basin (PVMGB), CVGB recharge as a result of leakage from the Colorado River Aqueduct was considered in the Project WSA. Direct or indirect use of Colorado River water requires documented entitlement. Therefore, Project-related groundwater use inducing flow of Colorado River water (groundwater within an area referred to as the "accounting surface") from the adjacent Palo Verde Mesa Groundwater Basin (PVMGB) into that CVBG-was considered. The Colorado River Accounting Surface is at an elevation between approximately 238 and 240 feet above mean sea level (amsl) in the Chuckwalla Valley (Argonne, 2013). Groundwater elevation in the Project area is approximately 489 feet amsl as of the first quarter of 2024, approximately 249 to 251 above the Accounting Surface. The numerical groundwater model developed for the Project WSA (GSI, 2024) included estimates of the total cone of depression considering cumulative drawdown from all potential pumping in the CVGB, including the Project, for the life of the Project through the decommissioning phase. The estimated drawdown at the Project well after the planned 2-year construction period was less than 2 feet, approximately 247 to 249 feet above the Accounting Surface. The temporary drawdown at the well during pumping, however, would be greater.

Assuming a conservatively large temporary drawdown of 100 feet at the Project well (up to 80 feet of temporary drawdown has been recorded from a well used for construction of a nearby solar project) during peak water demand during Project construction, the water levels in the Project well would be at least 150 feet above the Accounting Surface. Further, The water levels within the Project well would be

monitored as part of the GMRMP (MM HWQ-4) per the DRECP LUPA Conservation and Management Action (CMA) Soil and Water (SW) 24. Pumping from the Project well would be decreased or stopped well before water levels reached the Accounting Surface, pursuant to MM HWQ-3 (PVMGB Protection). Thus, the Project will not extract water from below the Accounting Surface.

7-9

For the reasons described above, the Project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the CVGB. Groundwater use during the Project's construction, operation, and decommissioning would cause drawdown in the immediate vicinity of the well(s) used to produce groundwater for the Project. Pursuant to BLM (2016a and 2016b) requirements, a WSA must include an analysis of "estimates of the total cone of depression considering cumulative drawdown from all potential pumping in the basin, including the project, for the life of the project through the decommissioning phase." To evaluate the potential cone of depression induced by proposed Project groundwater pumping and cumulative drawdown from all cumulative projects (see GSI, 2024 Table 12), a predictive MODFLOW groundwater model (Model) was developed and projected for the 52-year duration of the Project. The Model incorporated estimated inflow and outflow terms consistent with the Project water budget presented in Section 6 of GSI (2024) as well as hydrogeological properties used in the Fang et al. (2021) numerical groundwater model.

The Project impacts are discussed in terms of the zones of influence of the total cone of depression considering cumulative drawdown as a result of the Project, cumulative projects, and the CVGB projected agricultural, municipal, and domestic pumping. The zone of influence after 2 years of Project construction pumping (500 AFY) is an approximately 4.5-mile radius cone of depression out to 0.5 feet of drawdown. Project operational and decommissioning pumping (50 AFY) for 50 years has a cumulative drawdown with an approximately 15-mile radius out to 0.5 feet of drawdown. This zone of influence also includes pumping from cumulative projects.

The modeling results indicate that impacts to groundwater levels as a result of Project and cumulative project pumping are confined to the northwestern part of the CVGB. Although most of the non-cumulative project pumping (see GSI, 2024 Section 5.8.2) in the CVGB occurs in the northwestern part of the CVGB, total agricultural, municipal, and domestic pumping is limited and the magnitude of the simulated drawdown is not anticipated to adversely affect existing water users and water rights claimants in the CVGB.

Based on the adopted water budget components (primarily based on Fang et al. [2021]) in the Project WSA (GSI, 2024), under normal conditions (see Table 3-11.1) the CVGB is not in overdraft. The CVGB is a very low priority basin and DWR (2004) estimated the total groundwater storage capacity of the CVGB is 9,100,000 to 15,000,000 AF. The Project's water use of 3,500 AF over the 52-year life of the Project represents approximately 0.0004 percent of the assumed 10,000,000 AF of groundwater storage capacity in the CVGB. Under conservative recharge and pumping assumptions, there would be an annual and net surplus of groundwater in the CVGB over the Project's 52-year life with Project groundwater pumping in place. Only during the unlikely event -that a dry or critical dry year overlaps with Project construction (10 percent and 3 percent chance of occurring, respectively) would there be an annual groundwater deficit. However, Project groundwater use would not result in long term deficits or overdraft of the CVGB. Indeed, if the driest 52-year period recorded for the CVGB were to repeat during the Project's operational life, the WSA indicates there would be between a 17,530 AF and 90,330 AF surplus in the CVGB with the Project in place. Overall Project pumping would be limited by both MM HWQ-3 and HWQ-4, which would minimize potential pumping impacts to nearby wells and the larger CVGB. Thus, with mitigation, impacts would be less than significant.

Impact HWQ-2 would be reduced through the development of a Colorado River Water Supply Plan (CRWSP) to monitor groundwater extractions from the Project operated on- or off-site well(s) and

prevent, replace, or mitigate Project impacts that deplete the PVMGB groundwater budget to prevent impacts (MM HWQ-3, Palo Verde Mesa Groundwater Basin Protection). The CRWSP would be submitted to the U.S. Bureau of Reclamation and BLM prior to commencement of any Project construction activities. The CRWSP would be based on the results of the Project GMRMP. The GMRMP for the Project would be developed in coordination with the RWQCB and BLM to ensure that groundwater wells surrounding Project supply well(s) are not adversely affected (i.e., chronic lowering of groundwater levels) by Project activities.

7-9

Mitigation Measures for Impact HWQ-2

MM HWQ-3 Palo Verde Mesa Groundwater Basin (PVMGB) Protection. See full text in Section 3.11.9 (Mitigation Measures).

<u>MM HWQ-4</u> Groundwater Monitoring, Reporting, and Mititgation Plan (GMRMP). See full text in Section 3.11.9 (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant with the implementation of the recommended mitigation measure.

Impact HWQ-3A. Would the Project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on- or off-site?

LESS THAN SIGNIFICANT WITH MITIGATION. Earthwork for Project construction would require the use of heavy machinery for vegetation grubbing, grading, and installation of roads, solar fields, transmission facilities, the O&M building, the BESS, the energy storage systems, and other facilities. Construction of these facilities would involve the use of tractors, bulldozers, graders, trucks, and various other types of heavy equipment, and would involve minor changes to on-site topography. These activities would loosen existing surface soils and sediments, increasing the potential for erosion during storm events, along with associated effects such as increased downstream sediment yields from on-site disturbed areas. Increased impervious areas could also lead to erosion by increasing the rate and frequency of runoff.

Grading effects that could lead to soil disturbance would be reduced by the proposed grading design that includes mowing and rolling of vegetation over large areas (as opposed to major grading), which would minimize the required volume of earth movement. It is therefore anticipated that existing drainage patterns would not be substantially altered.

Although significant grading or ground-disturbing activities would not occur, parts of the solar facility including roads, laydown areas and structures would cause some form of ground disturbance from grading, compaction, or excavation.

Because of the proposed plan for minimal grading, alteration of the existing drainage pattern and any associated erosion or siltation, should be minimal. The Applicant's proposed layout of solar panels and other facilities (pending final design) would largely maintain major existing hydrologic patterns with respect to runoff, avoiding washes, stream beds, and stream banks, where feasible. This includes mostly avoiding the largest desert washes that cross the site from the southwest to northeast. However, the site plans are not yet final, and there remains a potential for minor alteration of drainage patterns and the potential for erosion. Drainage alterations could occur through diversions by the proposed security fences, placement of structures in drainage areas, or grading to control high flow concentrations.

As noted above and in Impact HWQ-1, alternation to drainages/streambeds mapped as unvegetated ephemeral dry washes and desert dry wash woodland and classified as RWQCB and CDFW jurisdictional waters of the State may occur. Changes and alterations to these washes could change the flow patterns across the site and result in increased flow velocities, increased erosion, and increased downstream siltation. Alterations to the RWQCB and CDFW jurisdictional waters would require the Applicant to obtain a LSAA from the CDFW and a WDR permit from the Colorado River Basin RWQCB. The LSAA and WDR would require avoidance and minimization measure to limit impacts to these areas and also may require compensatory mitigation for impacts to waters of the State. Impacts related to surface water degradation due to alterations to waters of the State would be minimized or prevented through compliance with CDFW and RWQCB regulations and permits, MM BIO-3 (Minimization of Vegetation and Habitat Impacts), MM BIO-5 (Vegetation Resources Management Plan), MM BIO-13 (Streambed and Watershed Protection), MM HWQ-1 (Drainage Erosion and Sedimentation Control Plan (DESCP)), and MM HWQ-5 (Project Drainage Plan). Implementation of these measures would ensure that impact HWQ-3A would be less than significant.

7-9

Erosion protection management would be required by adherence to a SWPPP that <u>is required and</u> the Applicant has committed to preparing. Compliance with these measures <u>is generally sufficient towould</u> <u>substantially</u> reduce erosion impacts to a minimum. A DESCP is proposed in MM HWQ-1 to further address potential Project-related water erosion impacts. This plan would include applicable measures, such as BMPs, to reduce erosion and siltation impacts. With <u>MM HWQ-1 in place</u><u>implementation of the above</u> <u>MMs</u>, Impact HWQ-3a would be less than significant.

Impact HWQ-3B. Would the Project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?

Less THAN SIGNIFICANT WITH MITIGATION. There is a minor potential for the Project to increase the magnitude and frequency of runoff rates through the construction of impervious areas and by altering the ground surface characteristics through grading and removal of vegetation. Impervious areas would be minimal and limited to the foundations for the proposed solar panels, foundations for the transmission structures, the proposed buildings, BESS, substation equipment and switchyard. The proposed parking area and roadways would be compacted, which would increase the runoff potential. Together, these features are anticipated to be only a small portion (about 3 percent) of the 3,735-acre <u>solar and BESS facility</u> site. Additionally, drainage patterns would remain relatively intact. Therefore, the increase in overall site runoff is expected to be minimal (approximately 3 percent), though a local impact potential remains, especially in the vicinity of new impervious areas. Depending on final engineering analysis of postconstruction hydrology, retention basins may be necessary to reduce increased discharges created by the Project.

Alteration of the existing drainage pattern should be minimal because of the minimal grading proposed. Some alterations could occur through diversions by the proposed security fences, which could become barriers to flow by the accumulation of debris, in which case substantial-diversions of off-site sheet flow could occur. Security fencing with desert tortoise fencing along the bottom would enclose the developed portions of the facility site, including the across the desert washes. Portions of the security fence may leave a 6- to 8-inch gap between the lower fence margin (rail or mesh) and the ground to allow for passage of desert tortoise <u>and other animals</u>. Structures placed in drainage areas, or grading to control high flow concentrations, could also lead to flow diversions which could adversely affect the flood potential within or outside the property.

Although minimal alteration of drainage patterns is expected, there remains a potential for the Project to cause flooding either of adjacent property or within the site itself. Mitigation Measure HWQ-1 requires the development of a DESCP which would address erosion-related impacts. The Westwood study (2023) presents a preliminary assessment of the flood potential in the Project area. As the site designs are completed, additional drainage information would be required to ensure that the designs address drainage and flooding conditions on the Project site. Mitigation Measure HWQ-5 (Project Drainage Plan) requires a Project drainage report and plan to address on-site flooding and the potential for the Project to induce flooding on adjacent property. With MMs HWQ-1 and MM HWQ-5 in place, Impact HWQ-3b would be less than significant.

Impact HWQ-3C. Would the Project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would create or contribute runoff water which would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff?

LESS THAN SIGNIFICANT WITH MITIGATION. There are no existing or planned stormwater drainage systems at or downstream of the Project site. Drainage in the area and downstream of the Project consists of natural desert with natural watercourses. Some increase in runoff potential is possible due to increased impervious area and compacted roadway surfaces, but a large increase is not anticipated due to the small amount of new impervious area and compacted roadways. Any increase in runoff would be addressed in the DESCP (MM HWQ-1) and detention regulations. With MMs HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) and MM HWQ-5 (Project Drainage Plan) in place, this potential impact from runoff would be less than significant.

Impact HWQ-3D. Would the Project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would impede or redirect flood flows?

LESS THAN SIGNIFICANT WITH MITIGATION. The Project would include perimeter security fencing which, if clogged with debris normally carried by natural flood flows in the desert, could divert flood flows and substantially increase the flood potential on other property. Fence-induced diversions along drainage entry points could cause flooding of adjacent properties. Fencing is not proposed across existing drainages and fencing would be a long linear element unlikely to become completely blocked by debris accumulations along the entire length of the fence.

The exact nature of fence-induced diversions is not determined at this time, though a qualitative assessment of their likely impact can be made. The flood depths described in the Westwood study (Westwood, 2023) are mostly minor for the Project, with depth estimated at up to 0.5 to 1 foot in most areas of the site. Since most major washes would be avoided, fencing at property entry points would be limited. Further, a 6-to-8-inch gap may be left at the bottom of the fence to allow tortoises to pass underneath. Fence-related flow diversion is therefore likely to be minimal. Mitigation Measure HWQ-5 (Project Drainage Plan) is proposed towould ensure that fence-related diversions of flow would be less than significant by creating fence openings sufficient to allow pass-through flow in places where there are no demonstrable existing flood diversions.

Most of the Project site would be subject to flooding at varying depths mostly less than one foot. Any structures placed in those areas would have the potential to redirect flood flows. The solar panels would be installed on posts/piles and at least 4 feet above the ground and would offer minimal obstruction to flows. The substation, BESS and O&M building are in an area that would be subject to flooding of

approximately 1 foot. These would be protected by berms or other drainage features which could redirect flood flows locally. The access roads, being at-grade, would offer minimal obstruction. The internal power lines would be protected from flooding by burying or being installed on poles, but if on poles would offer minimal obstruction to flow. The gen-tie line would have similar potential. Mitigation Measures HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) and MM HWQ-5 (Project Drainage Plan) would ensure that the site design include consideration of flood flows and diversions. With these mitigation measures in place, this potential impact from runoff would be less than significant.

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Potential impact of impervious areas is addressed in Impact HWQ-3B.

Mitigation Measures for Impact HWQ-3

- MM BIO-3 Minimization of Vegetation and Habitat Impacts. See full text in Section 3.5 (Biological Resources).
- MM BIO-5 Vegetation Resources Management Plan. See full text in Section 3.5 (Biological Resources).
- MM BIO-13 Streambed and Watershed Protection. See full text in Section 3.5 (Biological Resources).
- MM HWQ-1 Drainage Erosion and Sedimentation Control Plan (DESCP). See full text in Section 3.11.9 (Mitigation Measures).
- MM HWQ-5 Project Drainage Plan. See full text in Section 3.11.9 (Mitigation Measures).

Significance After Mitigation

These impacts would be less than significant with the implementation of recommended mitigation measures.

Impact HWQ-4. Would the Project expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?

LESS THAN SIGNIFICANT WITH MITIGATION. Most of the Project would be subject to flooding at varying depths mostly less than one foot. Any structures placed in those areas would have the potential to be flooded. The solar panels would be installed on posts/piles and at least 4 feet above the ground and would be above the anticipated flood depth but would be subject to scour as the flood flows pass the support posts. The substation, BESS and O&M building are in an area that would be subject to flooding of up to 1 foot. These would be protected by berms or other drainage features. The access roads, being at-grade, would require maintenance after a flood event. The internal power lines would be protected from flooding by burying or being installed on poles, but if on poles could be subject to flood-related scour. The gen-tie line would have similar potential for flood-related scour.

As there would be few people on the site at most times, flow depths shallow, and the building structures and other Project features would be protected from flooding or not easily susceptible to flood damage, there would be little chance of flood-related injury or death, or substantial damage to structures. Mitigation Measures HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) and MM HWQ-5 (Project Drainage Plan) would ensure that the site design include consideration of flood flows. Mitigation Measure HWQ-6 (Flood Protection) is proposed to ensure that all structures are protected from flooding and flood-related scour.

Mitigation Measures for Impact HWQ-4

MM HWQ-1 Drainage Erosion and Sedimentation Control Plan (DESCP). See full text in Section 3.11.9 (Mitigation Measures).

MM HWQ-5 Project Drainage Plan. See full text in Section 3.11.9 (Mitigation Measures).

MM HWQ-6 Flood Protection. See full text in Section 3.11.9 (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant with the implementation of recommended mitigation measures. Mitigation Measures for Impact HWQ 5

- MM BIO-3 Minimization of Vegetation and Habitat Impacts. See full text in Section 3.5 (Biological Resources).
- MM BIO 5 Vegetation Resources Management Plan. See full text in Section 3.5 (Biological Resources).
- **MM BIO-13** Streambed and Watershed Protection. See full text in Section 3.5 (Biological Resources).
- MM HWQ-1 Drainage Erosion and Sedimentation Control Plan (DESCP). See full text in Section 3.11.9 (Mitigation Measures).
- MM HWQ-2 Septic System Review and Permitting. See full text in Section 3.11.9 (Mitigation Measures).
- MM HWQ-3 Palo Verde Mesa Groundwater Basin (PVMGB) Protection. See full text in Section 3.11.9 (Mitigation Measures).
- **MM HWQ-5** Project Drainage Plan. See full text in Section 3.11.9 (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant with the implementation of recommended mitigation measures.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.11.7. Cumulative Impacts

3.11.7.1. Geographic Scope

Surface Water. The Project is in the Chuckwalla Hydrologic Unit which drains entirely to the Palen and Ford Dry Lakes. There is no natural outlet for this flow to other hydrologic units. Therefore, the area for cumulative hydrology and water quality analysis is confined to this hydrologic unit. Existing, proposed, and reasonably foreseeable projects from Tables 3.1-2 and located within this same hydrologic unit consist of eight solar energy projects (Desert Sunlight, Desert Harvest, Palen, Athos, Oberon, Victory Pass, Redonda and Arica), five power transmission projects (Red Bluff Substation, Devers-Palo Verde Transmission Line, Devers-Colorado River Transmission Line, Blythe Energy Project Transmission Line, and Desert Southwest Transmission Line), and two other projects (Eagle Mountain Pumped Storage Project and Skybridge-Eagle Mountain Hydrogen Project).

Groundwater. A cumulative impact scenario on groundwater was completed in the Project WSA. Th<u>ise</u> cumulative impact scenario uses the CVGB baseline groundwater budget presented in the Project WSA using normal and reduced recharge assumptions (see Tables 3.11-1 and 3.11-2). The cumulative impact scenario accounts for all existing water and estimated water use from known qualifying projects and foreseeable cumulative projects. Pursuant to SB 610, the Project WSA is only required to consider existing water use and estimated water use from known qualifying projects included in the Project WSA cumulative impact scenario are displayed on Figure 3.1-1 and Project WSA Figure 3 in EIR Appendix G.

3.11.7.2. Cumulative Impact Analysis

Surface Water

Cumulative impacts to hydrology and water quality include the impacts of the Easley Project together with those listed above, most of which are similar solar power projects. These cumulative projects have the potential to contribute to cumulative hydrologic and water quality impacts in the Chuckwalla Valley Hydrologic Unit. These cumulative projects have the potential to introduce new or exacerbate existing pollutant generation associated with construction and operation. These projects could contribute to increases in impervious surfaces. All cumulative projects are crossed by water-courses that could generate flooding, with similar flooding impacts as described for the proposed Project.

All foreseeable future projects in the Chuckwalla Valley Hydrologic Unit would be subject to similar measures as the proposed Project when obtaining the required permits that implement complianceand <u>complying</u> with state and federal clean water regulations and Riverside County floodplain development regulations. As <u>all_these</u> projects would go through an environmental review process, they would be subject to similar mitigation measures as those proposed to address potential water quality impacts for the proposed Project. Many of the projects (Arica, Victory Pass, Palen, and Desert Harvest) do or would likely avoid major drainages that cross their sites. Because the Project is in a similar hydrologic setting and most of the cumulative projects are similar projects, individual project impacts are expected to be reduced to less than significant through compliance with regulations and mitigation. Therefore, the combined effects to water quality from the cumulative projects within the geographic scope would not be considered cumulatively significant and the proposed Project would not have a considerable contribution to the cumulative impact.

Groundwater

In June 2023, BLM issued a Proposed Rule to amend its existing ROW regulations, issued under authority of the Federal Land Policy and Management Act (FLPMA), and is considering issuing Right-of-Way (ROW) grants for durations of up to 50 years (BLM, 2023). To prepare for potential issuance of 50-year ROW Grant by the BLM and to determine whether there are sufficient supplies to sustain the Project, the Easley WSA conservatively extends the total projected period of the Project to 52-years. For the purpose of the CVGB water budget (see GSI, 2024 Section 6) and predictive Project water demand impacts analysis (see GSI, 2024 Sections 5.4 and 7) presented herein, 52 years is equivalent to the projected total duration of the Project, including construction (20 months), operations (48 years), and decommissioning (20 months).³⁵ The Project would use up to 1,000 AF during the planned 20-month construction period and up to 50 AFY during the Project's operational and decommissioning periods³⁶. As described above, the Project would result in less than significant impacts to groundwater supplies with implementation of mitigation.

A cumulative impact scenario on groundwater was completed in the Project WSA. <u>As with the Project-level analysis</u>, normal (average) conditions are considered the more accurate estimate; the annual groundwater deficit resulting from the use of the reduced recharge rates is inconsistent with reported groundwater levels in the CVGB, which indicate that the groundwater levels are generally stable, or in some areas in the CVGB, indicate an increasing trend, which would not occur if there were an ongoing

³⁵ Although the estimated Project construction period and decommissioning period described in the EIR Chapter 2 (Project Description) is 20 months, the water budgets (see GSI, 2024 Section 6) and Cone of Depression and Cumulative Drawdown Analysis (see GSI, 2024 Section 7), were developed in 1-year time steps, and therefore, assume the same overall water usage but over shorter Project construction and decommissioning periods of 2 years.

³⁶ As described in EIR Section 2.3.11, the Applicant has updated its construction water requirements in the Partially Recirculated Draft EIR based on water usage data obtained following construction of other projects in the area, such as the Oberon Renewable Energy Project. The analysis in EIR Section 3.11 (Hydrology and Water Quality) and EIR Appendix G (Water Supply Assessment) conservatively still assumes use of 1,000 AF during construction.

annual groundwater deficit. Additionally, the reduced recharge groundwater budget is inconsistent with previous studies, including USGS (2007), CEC (2010), and Fang et al. (2021).

The results indicate the Project contributes approximately 2 percent of the total cumulative operational extractions for all qualifying projects not already in place (cumulative projects; see GSI, 2024, Table 12). Development of a 52-year (equivalent to the total Project duration) groundwater budget projection, assuming average precipitation and the Project and all cumulative projects in place, indicates there would be an initial groundwater deficit of 6,960 AF in the year 2024 (first year of Project-construction for all cumulative projects not already under construction or operational). The cumulative groundwater deficit would increase to approximately 118,420 AF by the end of the 52-year period. Without the Project and all other cumulative projects in place, there would be a surplus of 5,200 AF at the end of the 52-year period. The same analysis using the DWR (2020a) estimated annual groundwater pumping, assuming average precipitation, indicates the initial groundwater deficit would be 5,560 AF in 2024, increasing to a deficit of 45,620 by the end of the 52-year period.

The same analysis using reduced infiltration and underflow estimates results in a total cumulative project deficit of about 352,760 AF, to which the Project would contribute about 1 percent, or 3,500 AF. Using these inflow estimates, the CVGB would not recover the groundwater deficit with or without the Project.

Using the driest 52-year period recorded at the Blythe Airport meteorological station, with the Project and all cumulative projects in place, the CVGB total groundwater deficit at the end of the 52-year period would be approximately 112,560 AF. Using reduced recharge data, the 52-year deficit would total approximately 347,640 AF.-Using the DWR (2020a) estimated annual pumping, at the end of the 52-year period the total groundwater deficit would be approximately 39,760 AF.

Notably, the estimated water demand of the Eagle Mountain Pump Storage (EMPS) Project is 4,460 AFY during the projected 4-year construction period and 2,050 AFY during the operational phase of the project. Comparatively, one year of construction water demand for the EMPS Project is more than the 52-year water demand for the Project. Further, during its operational phase, the EMPS Project is projected to use more than six times the groundwater of all other cumulative projects located in the CVGB. The inclusion of the EMPS Project drastically affects the cumulative project projected groundwater budgets. Without the EMPS Project, the cumulative groundwater deficit would be 2,180 AF at the end of the 52-year period under normal conditions. Under normal conditions using DWR (2020a) estimated annual pumping, there would be a cumulative groundwater surplus of 70,620 AF without the EMPS Project. Similarly, if the EMPS Project groundwater use was not included in the driest 52-year period cumulative groundwater surplus would be 3,680 AF at the end of the 52-year period. Using the DWR (2020a) estimated annual pumping, the cumulative groundwater surplus would be 3,680 AF at the end of the 52-year period. AF at the end of the 52-year period.

Although the cumulative scenarios presented in the Project WSA (GSI, 2024) indicate a deficit over the 52year period in some circumstances, the available water supplies during normal, single dry, and multiple dry water years from the CVGB, would meet the projected water demands of the cumulative project uses, in addition to existing uses and planned future uses. This is a result of the storage capacity and hydrogeologic properties of the CVGB, and the relatively low water demand of the cumulative projects. Further, the WSA also calculated the groundwater drawdown caused by groundwater use by the cumulative projects. Pursuant to BLM (BLM, 2016a and 2016b) requirements, a WSA must include an analysis of "estimates of the total cone of depression considering cumulative drawdown from all potential pumping in the basin, including the project, for the life of the project through the decommissioning phase." To evaluate the potential cone of depression induced by proposed Project groundwater pumping and cumulative drawdown from all cumulative projects (see GSI, 2024 Table 12), a predictive MODFLOW groundwater model (Model) was developed and projected for the 52-year duration of the Project. The Model incorporated estimated inflow and outflow terms consistent with the Project water budget presented in Section 6 of GSI (2024) as well as hydrogeological properties used in the Fang et al. (2021) numerical groundwater model.

The Project impacts are discussed in terms of the zones of influence of the total cone of depression considering cumulative drawdown as a result of the Project, cumulative projects, and the CVGB projected agricultural, municipal, and domestic pumping. The zone of influence after 2 years of Project construction pumping (500 AFY) is an approximately 4.5-mile radius cone of depression out to 0.5 feet of drawdown. Project operational and decommissioning pumping (50 AFY) for 50 years has a cumulative drawdown with an approximately 15-mile radius out to 0.5 feet of drawdown. This zone of influence also includes pumping from cumulative projects.

The modeling results indicate that impacts to groundwater levels as a result of Project and cumulative project pumping are confined to the western part of the CVGB. Although most of the non-cumulative project pumping (see GSI, 2024 Section 5.8.2) in the CVGB occurs in the western part of the -CVGB (the total agricultural, municipal, and domestic pumping is limited to approximately 7,900 AFY [CEC, 2010]), cumulative project pumping is not anticipated to adversely affect existing water users and water rights claimants in the CVGB due to the limited magnitude of the simulated drawdown (see the previous paragraph).

Thus, even with a potential deficit, the overall impact would be limited to the western part of the CVGB and any such impact would not adversely affect the existing water uses in that area. Further, even the higher estimated deficit (112,560 AF) is only 1.12 percent of the total assumed 10,000,000 AF capacity of the CVGB. Year to year groundwater use by cumulative projects also would be well below historical agricultural pumping, which was approximately 21,000 AFY in 1986 (GEI, 2010a). Current agricultural groundwater use is estimated at approximately 6,628 AFY, approximately three times the amount of yearly operational groundwater use for all cumulative projects (DWR, 2020a). Even with agricultural pumping, as well as municipal and domestic uses, groundwater levels in the CVGB have been relatively stable or, in some areas of the CVGB increasing based on reported groundwater levels. There is no reported evidence of subsidence in the CVGB as a result of historical or present pumping (GEI, 2010a) and the Project and cumulative projects are not anticipated to cause subsidence, increase the rate of subsidence, or cause loss of aquifer storage capacity in the CVGB.

Thus, the addition of the cumulative projects likely would have a limited impact on the overall groundwater supplies in the CVGB. Like the Project, cumulative projects would be required to implement groundwater monitoring plans and ensure that pumping would not adversely impact existing users. Groundwater pumping from cumulative projects also would be limited by the Accounting Surface. However, because the cumulative scenario under normal conditions indicates a potential groundwater deficit, the County conservatively concludes that cumulative impacts would be potentially significant.

Although cumulative impacts would be potentially significant, the Project's incremental contribution is not considered cumulatively considerable. As noted above, the cumulative deficit is driven by the proposed EMPS Project, which accounts for the majority of groundwater use under the cumulative scenario. One year of construction water demand for the EMPS Project is more than the 52-year water demand for the Project. Further, during its operational phase, the EMPS Project is projected to use more than six times the groundwater of all other cumulative projects located in the CVGB and more than 33 times the groundwater of the Project during the 52-year period. Without the EMPS Project, the cumulative groundwater deficit would be 2,180 at the end of the 52-year period. Under normal conditions using DWR (2020a) estimated annual pumping, there would be a cumulative groundwater surplus of 70,620 AF without the EMPS Project. Similarly, if the EMPS Project groundwater use was not included in the driest 52-year period cumulative project scenario, the cumulative groundwater surplus would be 3,680 AF at the end of the 52year period. Using the DWR (2020a) estimated annual pumping, the cumulative groundwater surplus would be 76,480 AF at the end of the 52-year period. The Project's contribution to cumulative project pumping during the 52-year period is minor, accounting for 3 percent of the total cumulative demand. The Project also would implement various construction techniques designed to reduce overall water use during construction, including using "overland travel," designating primary travel routes, limiting grading, utilizing small rubber-wheel vehicles, and phasing construction, as described in Chapter 2. Project-level impacts are less than significant, and the Project would comply with various mitigation measures that would minimize potential pumping impacts to nearby wells and the larger CVGB. Accordingly, the Project's incremental contribution to cumulative impacts is not cumulatively considerable.

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Further, based on the limited magnitude of the simulated drawdown due to Project and cumulative project pumping, groundwater levels would not be lowered to a level that would cause a degradation of groundwater quality that affect other beneficial uses. Additionally, groundwater levels would not be lowered to a level that causes pumping wells near the Project to begin to capture deeper/older groundwater within the CVGB. Deeper/older groundwater typically contains increased salts and nutrients as a result of prolonged exposure to the aquifer material (leaching of minerals from the host rock into groundwater) (USGS, 2019). In addition, there are no known point source plumes near the Project. Therefore, there are no known contaminant plumes Project pumping or cumulative pumping could potentially mobilize.

The Project's contribution to cumulative impacts on groundwater would be actively monitored through the development and implementation of a GMRMP for the Project in coordination with the RWQCB and BLM to ensure that groundwater wells surrounding Project supply well(s) are not adversely affected (i.e., chronic lowering of groundwater levels and/or degradation of groundwater quality) by Project activities (MM HWQ-4). The Project's contribution to cumulative impacts would also be monitored through the development of a Colorado River Water Supply Plan (CRWSP) to monitor groundwater extractions from the Project operated on or off site well(s) and prevent, replace, or mitigate Project impacts that deplete the PVMGB groundwater budget to prevent impacts (MM HWQ 3). The CRWSP would be submitted to the U.S. Bureau of Reclamation and BLM prior to commencement of any Project construction activities. The CRWSP would be based on the results of the Project GMRMP. The GMRMP for the Project would be developed in coordination with the RWQCB and BLM to ensure that groundwater wells surrounding Project supply well(s) are not adversely affected (i.e., chronic lowering of groundwater levels) by Project activities. With the implementation of these mitigation measures, the Project would not make a considerable contribution to potential cumulative reductions in groundwater supplies.

The proposed expansion of Joshua Tree National Park and creation of Chuckwalla National Monument, if adopted, would re-designate existing federal lands in the Project vicinity but would not create physical changes in the environment that would contribute to cumulative impacts. By excluding development within these areas, the potential need for a water supply for such development would be avoided.

Mitigation Measures for Cumulative Impacts

Mitigation Measures MM BIO-3, MM BIO-5, MM BIO-13, and MMs HWQ-1 through MM HWQ-6 would be implemented to address potential hydrology and water quality impacts for the proposed Project. No additional mitigation is required.

Significance After Mitigation

The Project's incremental contribution to hydrology and water quality impacts would not be cumulatively considerable and is therefore considered less than significant with mitigation.

3.11.8. Mitigation Measures

MM BIO-3 Minimization of Vegetation and Habitat Impacts. See full text in Section 3.5 (Biological Resources).

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- MM BIO-5 Vegetation Resources Management Plan. See full text in Section 3.5 (Biological Resources).
- MM BIO-12 Streambed and Watershed Protection. See full text in Section 3.5 (Biological Resources).
- MM HWQ-1 Drainage Erosion and Sedimentation Control Plan (DESCP). At least 60 days prior to site mobilization, the Applicant shall submit to the Regional Water Quality Control Board, the BLM, and Riverside County for review and approval a DESCP for managing stormwater during Project construction and operations and to prevent sediment or any other pollutants from moving offsite and into receiving waters. The DESCP can be included in the Stormwater Pollution Prevention Plan (SWPPP) and must ensure proper protection of water quality and soil resources, address disturbed soil stabilization treatments in the Project area for both road and non-road surfaces, and identify all methods used for temporary and final stabilization of inactive areas. The plan must also cover all linear Project features such as the proposed gen-tie line and any other Project component subject to disturbance. The DESCP shall contain, at a minimum, the elements presented below that outline site management activities and erosion and sediment-control Best Management Practices (BMPs) to be implemented during site mobilization, excavation, construction, and post-construction (operating) activities.
 - Vicinity Map. A map(s), at a minimum scale 1 inch to 500 feet, shall be provided indicating the location of all Project elements with depictions of all significant geographic features including swales, storm drains, drainage concentration points and sensitive areas.
 - Site Delineation. All areas subject to soil disturbance (including mowing, grubbing, grading, excavation or any other soil disturbing activity) for the Project shall be delineated showing boundary lines of all construction areas and the location of all existing and proposed structures and drainage facilities.
 - Clearing and Grading Plans. The DESCP shall provide a delineation of all areas to be cleared of vegetation and areas to be preserved. The plan shall provide elevations, slopes, locations, and extent of all proposed grading as shown by contours, cross sections, or other means. The locations of any disposal areas, fills, or other special features shall also be shown. Existing and proposed topography shall be illustrated by tying in proposed contours with existing topography.
 - Clearing and Grading Narrative. The DESCP shall include a table with the estimated quantities of material excavated or filled for the site and all Project elements, whether such excavation or fill is temporary or permanent, and the amount of such material to be imported or exported. All areas subject to soil disturbance shall be included in the table.
 - Erosion Control. The plan shall address treatments to be used on exposed soil during construction and operation including specifically identifying all chemical-based dust palliatives, soil bonding, and weighting agents appropriate for use that would not cause adverse effects to vegetation. BMPs shall include measures designed to provide temporary stabilization of inactive disturbed areas and will be applied as soon as possible consistent with SCAQMD (Rule 403) and SWRCB Construction General Permit requirements. The timing of suppressant or binder application will occur as soon as possible

and consistent with dust and stormwater permit requirements. Any soil stabilizers proposed shall be approved for use by the Project's Restoration Specialist to ensure that the products shall not impede restoration goals.

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- Best Management Practices Plan. The DESCP shall identify on the topographic site map(s) the location of the site specific BMPs to be employed during each phase of construction (initial grading, Project element excavation and construction, and final grading/stabilization). BMPs shall include measures designed to control dust, stabilize construction access roads and entrances, and control stormwater runoff and sediment transport consistent with SCAQMD (Rule 403) and SWRCB Construction General Permit requirements.
- Best Management Practices Narrative. The DESCP shall show the location, timing, and maintenance schedule of all erosion- and sediment-control BMPs to be used prior to initial grading, during excavations and construction, final grading/stabilization, and operation. Separate BMP implementation schedules shall be provided for each Project element for each phase of construction. The maintenance schedule shall include post-construction maintenance of structural-control BMPs, or a statement provided about when such information would be available.
- The DESCP shall be prepared, stamped, and sealed by a professional engineer or Qualified SWPPP Developer. The DESCP shall include copies of recommendations, conditions, and provisions from the Regional Board and/or BLM.
- The DESCP may be part of the SWPPP and shall be kept onsite, kept updated, and readily available on request. The DESCP and SWPPP must demonstrate compliance with other water quality permits (WDR and LSAA), which may have restrictions on types of erosion or sedimentation control materials used. SWPPP inspection reporting will be consistent with the requirements of the SWRCB Construction General Permit.
- **MM HWQ-2** Septic System Review and Permitting. Before the start of construction, the Applicant shall submit to Riverside County Department of Environmental Health an evaluation of the Project septic system to ensure that the proposed use of the system is consistent with federal, state, and local requirements for septic system design, including requirements for percolation, vertical distance from the groundwater table, and setback from the nearest groundwater well.
- MM HWQ-3 Palo Verde Mesa Groundwater Basin (PVMGB) Protection. If water for the Project, to be obtained from on- or off-site well(s) within the Chuckwalla Valley Groundwater Basin (CVGB), is extracted from on- or off-site well(s) that is/are owned and/or operated by the Applicant, the Applicant shall develop a Colorado River Water Supply Plan (CRWSP) to monitor groundwater extractions from the Applicant owned and/or operated on- or off-site well(s) and prevent, replace, or mitigate Project impacts that deplete the PVMGB groundwater budget to prevent impacts to the adjacent PVMGB related to groundwater extraction below the Colorado River Accounting Surface.

The CRWSP shall be submitted to the U.S. Bureau of Reclamation and BLM for review and approval at least 60 days prior to the initiation of construction-and is required to be implemented at any time during the life of the Project that groundwater withdrawals reach the Accounting Surface, based on the results of the Groundwater Monitoring, Reporting, and Mitigation Plan (required under MM HWQ-4). No pumping of groundwater below the accounting surface shall occur without compensatory mitigation according to the

approved CRWSP. A copy of the CRWSP shall also be submitted to the Metropolitan Water District of Southern California for review and comment.

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The amount of PVMGB depletion requiring mitigation shall be equal to the amount of withdrawals from below the Colorado River Accounting Surface. Toward ensuring that no allocated water from the Colorado River is consumed without entitlement to that water, the CRWSP shall identify measures that will be taken to reduce and replace water on an acre-foot by acre-foot basis should the Project consume any water from within or below the Colorado River.

- (a) The CRWSP shall describe groundwater monitoring activities and quarterly data reports to be closely reviewed for depth to groundwater information, and proximity of the depth of Project-related groundwater pumping to the Colorado River Accounting Surface. <u>To ensure that The CRWSP shall further describe that if Project-related</u> groundwater pumping <u>does not</u> draws water from below the accounting surface, <u>the</u> following shall occur:
- (b) Based on groundwater monitoring data, the quantity of groundwater pumped from below the Accounting Surface shall be recorded; and
- (c) Tthe Applicant shall implement water conservation/offset activities, including cessation of pumping, to reduce the amount of water withdrawn from on- or off-site well(s) that is/are owned and/or operated by the Applicant. within or below the Colorado River Accounting Surface and to replace Colorado River water on an acrefoot by acre-foot basis. To effectively implement this requirement, the CRWSP shall include the following information:
- (d) Identification of water conservation/offset activities that reduce/replace the quantity of water diverted from the Colorado River;
- (e) Identification of any required permits or approvals and compliance of conservation/offset activities with CEQA and NEPA;
- (f) An estimated schedule of completion for each identified activity;
- (g) Performance measures to evaluate the amount of water reduction and replacement by each identified activity; and
- (h) Monitoring and reporting protocol to ensure that water conservation/offset activities are effectively implemented and achieve the intended purpose of reducing and replacing Colorado River water diversions.
 - (i) The Colorado River Accounting Surface is at an elevation between approximately 238 and 240 feet above mean sea level (amsl) in the Chuckwalla Valley (Argonne, 2013). Groundwater elevation in the Project area is approximately 489 feet amsl as of the first quarter of 2024. The numerical groundwater model developed for the Project Water Supply Assessment (GSI, 2024; discussed below) included estimates of the total cone of depression considering cumulative drawdown from all potential pumping in the CVGB, including the Project, for the life of the Project through the decommissioning phase. The estimated drawdown at the Project well after the planned 2-year construction period was less than 2 feet. The temporary drawdown at the well during pumping, however, would be greater.

- (ii) Assuming a conservatively-large temporary drawdown of 100 feet at the Project well (up to 80 feet of temporary drawdown has been recorded from a well-used for construction of a nearby solar project) during peak water demand during Project construction, the water levels in the Project well would be at least 150 feet above the Colorado River Accounting Surface. The water levels within the Project well would be monitored as part of the GMRMP (MM HWQ-4) per the DRECP LUPA Conservation and Management Action (CMA) Soil and Water (SW) 24. MM HWQ-3 ensures that the Project will not extract water from below the Accounting Surface, as it requires that pumping from Project wells be decreased or stopped well before water levels reached the Colorado River Accounting Surface.
- MM HWQ-4 Groundwater Monitoring, Reporting, and Mitigation Plan (GMRMP). Before the Project uses groundwater pumped from any Applicant owned and/or operated well (on site or off site) that extracts water from the CVGB, the Applicant shall retain a BLM-approved qualified hydrogeologist to develop a GMRMP, in coordination with the RWQCBRiverside <u>County</u> and BLM, to ensure that groundwater wells surrounding Project supply well(s) are not adversely affected by Project activities, i.e., chronic lowering of groundwater levels and degradation of groundwater quality. The Applicant shall submit the GMRMP to the RWQCB-Riverside County and BLM for review and approval. Additionally, although no Groundwater Sustainability Agencies (GSAs) have been established for the CVGB, in the event that such agencies have been established when the GMRMP is developed, the Applicant also shall submit the GMRMP to those GSAs. The Applicant shall implement the approved GMRMP throughout any Project phase that pumps groundwater for consumptive use.

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The GMRMP shall provide a detailed methodology for monitoring site groundwater levels and comparisons for levels within the CVGB including identification of the closest private wells to the Project's well(s). Groundwater level data from wells at adjacent and nearby solar facilities and other Projects on BLM-administered public lands shall be provided by the BLM for review and comparison, to the extent available to the Applicant. Monitoring shall be performed during pre-construction, construction, and operation of the Project, to establish pre-construction and Project-related groundwater level and water quality trends that can be quantitatively compared against observed and simulated trends near the Project's pumping well(s) and near potentially impacted existing wells. The GMRMP shall include a schedule for submittal of quarterly data reports by the Applicant to the GMRMP designated agencies and the GSA(s) (if established), for the duration of the construction period. These quarterly data reports shall be prepared and submitted for review and shall include water level monitoring data and effect on the nearest off-site private wells. The designated agencies shall determine whether groundwater wells surrounding the Project supply well(s) are adversely affected (i.e., chronic lowering of groundwater levels and degradation of groundwater quality) by Project activities in a way that requires additional mitigation and, if so, shall determine what measures are needed. Examples of additional mitigation, if approved by the designated agencies, could includeand, if so, shall require one or more of the following:

- Cessation or reduction of pumping at the Project well(s) until groundwater levels return to levels that allow nearby wells to resume pre-Project pumping levels;
- Compensation for whatever additional equipment is necessary to lower nearby pumps to levels that can adequately continue pumping;

- Compensation to repair or replace wells found to be damaged or inoperable due to lowered groundwater levels; or
- Compensation for increased energy cost due to Project-related well drawdown.

After the completion of construction, the Applicant and the BLM shall jointly evaluate the effectiveness of the GMRMP and determine if monitoring and reporting frequencies or procedures should be revised or eliminated.

MM HWQ-5 Project Drainage Plan. The Applicant shall provide the RWQCB, Riverside County and BLM with a drainage plan for review and approval prior to construction, which includes the following information:

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- Hydrologic assessment of flood discharges affecting each parcel.
- A detailed on-site hydraulic analysis utilizing FLO 2D or similar two-dimensional hydraulic model which models pre- and post-development flood conditions for the 10- and 100-year storm events. The post-development model must include all proposed Project features, contours, and drainage improvements. Graphical output must include depth and velocity mapping as well as mapping which graphically shows the changes in both parameters between the pre- and post-development conditions.
- The Drainage Plan shall show the location of all watercourses, drainage concentration points and drainage ditches as they enter, cross, and exit the site. It shall include predevelopment and post-development peak flow estimates. It shall include hydraulic calculations to determine flood conditions, floodplain limits, flood depths and velocities. It shall show the relationship of drainage and flood features to the features of the Project, including buildings, fences, substations, access roads, culverts, linear features, and panel supports, demonstrating adequate design to protect from flooding, erosion and scour, and to do so without adversely affecting adjacent property, inducing erosion, or concentrating or diverting flows.
- The Plan shall show how drainage will be conveyed through the site without adversely affecting other property, either through increased flood hazard or increased potential for scour and erosion. Proposed fencing shall allow runoff to traverse the Project site unencumbered, as feasible. The Plan shall include an assessment of existing diversion berms and channels around parcel perimeters and the magnitude and frequency of flood that would be diverted by these existing features, and the probable integrity of these features to withstand flows. It shall show how those that are on the Project site will be affected by grading. It shall include an assessment of flows approaching proposed perimeter fences, whether or not adjacent to existing berms, and make design recommendations to avoid flow diversions by these fences while taking into account relevant biological mitigation measures. Design recommendations may include creating fence openings large enough to allow the passage of debris-laden flows without the potential for diversions to other property.
- The Plan shall have detailed design of flood retention features necessary to avoid any increase in downstream flood peak flow rates.
- Drainage of Project Site Narrative The Plan shall include a narrative of the measures necessary to protect the site and Project features from flooding, erosion and sedimentation, and measures taken to prevent Project-induced erosion and flooding of adjacent property.

MM HWQ-6 Flood Protection. The O&M Building, BESS switchyard, and all other Project buildings shall either be situated outside of the 100-year floodplain or sufficiently protected against dislodgement by flooding where placement outside the floodplain is not practical. Flood protection shall consist of elevating the structures on fill to at least the highest anticipated adjacent flood level as measured from a horizontal stow position. Solar panels shall be situated at least one foot above the highest anticipated local flood level. All structures using posts or poles for foundations, including transmission poles or towers, shall be designed to protect against substantial scour from the 100-year flood event. The Project must comply with Riverside County Ordinance No. 458 for projects within a Special Flood Hazard Area or floodplain: electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities must be designed or located to prevent water from entering or accumulating within the components during flooding.

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3.12. Land Use and Planning

This section describes existing land uses and land use plans and policies in the Project area on private and public land. Land use can be assessed by analyzing current land activities, land ownership, zoning, and consistency with existing land use plans, ordinances, regulations, and policies.

3.12.1. Environmental Setting

The Easley Project site is in eastern Riverside County, north of Interstate 10 (I-10) and approximately 2 miles north of the town of Desert Center, California. The site includes both private and public land under the jurisdiction of Riverside County and the BLM, respectively. Of the site's approximately 3,735 acres, approximately 2,050 acres would be developed by the solar and BESS facility, with the balance left as open space. Solar arrays would be fenced, with open areas between them. The Project site is immediately north and east of the community of Lake Tamarisk Desert Resort (LTDR) in Desert Center and is south of Joshua Tree National Park. LTDR is a 55-plus 150-space mobile home and RV resort that includes a clubhouse, nine-hole golf course, pool, and lake as well as year-round homes. RV sites are available for rent. Other development in the area consists of active and fallow agricultural fields, residences, solar developments, and electrical transmission lines. Surrounding areas also include undeveloped desert land that is largely under federal jurisdiction and administered by the BLM.

Two operating solar projects, Desert Sunlight and Desert Harvest, are north of the proposed Easley Project site and the Athos Renewable Energy Project is to the east. Nearby solar projects <u>recently constructed or</u> under finishing construction include the Oberon Renewable Energy Project to the immediate south and the Arica and Victory Pass solar projects to the southeast of the Easley site. The Sapphire Solar Project, proposed by EDF Renewables, is adjacent to the northern area of the Easley Project site. Figure 2-4 (Desert Center Solar Projects & DRECP Context) shows the proposed Easley Project in relation to existing, approved, and proposed solar facilities in the region.

The Project is located within the County's Desert Center Area Plan (DCAP), a subset of the Riverside County General Plan. County land surrounding the Area Plan is designated as Open Space Rural. According to the Area Plan, much of the land west and south of Kaiser Road is designated desert tortoise reserve. The proposed Project is east of Kaiser Road, and east of the reserve. Little new development is envisioned within the Area Plan, except for infill and/or revitalization of the Eagle Mountain Townsite and contiguous expansion of the Desert Center and Lake Tamarisk communities, which are located outside of the Project site. Where the proposed Project would be located on parcels under County jurisdiction, the DCAP land use designations are primarily Open Space Rural, with some designated as Agriculture. There are 8 parcels under WA contract that are designated as Agriculture in the DCAP (see discussion in Section 3.3, Agriculture and Forestry). These parcels were used for agriculture in the 1980s; however, they have been out of agricultural use since then and are not currently used for agriculture.

Under the Riverside County Zoning Ordinance, the lands within the Project site boundary subject to County jurisdiction are shown in Figure 3.12-1 County Zoning on Project Lands. The parcels subject to County jurisdiction in the project boundary are zoned as A-1-20 (Light Agriculture [20-acre minimum]), N-A (Natural Assets) or W-2 (Controlled Development Areas). Solar power plants on lots of 10 acres or larger are allowed in these zones under a Conditional Use Permit (Riverside County, 2023).

BLM-administered land comprises much of the Project site. These parcels are part of the lands designated as under the Desert Renewable Energy Conservation Plan (DRECP) as a Development Focus Area, which are areas with substantial energy generation potential, access to existing or planned transmission, and low resource conflicts.

Outside of the Project site boundary, a 500 kV gen-tie line from the proposed Easley Project substation would traverse the adjacent Oberon Project site in a transmission corridor on BLM-administered land, terminating at the <u>existing</u> Oberon substation, which is under constructionSwitchyard.

3.12.2. Regulatory Framework

3.12.2.1. Federal Laws, Regulations, and Policies

Federal Land Policy and Management Act, 1976 As Amended. The U.S. Congress passed the FLPMA in 1976. Title V, "Rights-of-Way (ROW)," of the FLPMA establishes public land policy and guidelines for administration, provides for management, protection, development, and enhancement of public lands, and provides the BLM authorization to grant ROWs. Authorization of systems for generation, transmission, and distribution of electric energy is addressed in Section 501(4) of Title v. In addition, Section 503 specifically addresses "Right of Way Corridors" and requires common ROWs "to the extent practical." FLPMA, Title V, Section 501(a)(6) states, "[t]he Secretary, with respect to the public lands (including public lands, as defined in section 103(e) of this Act, which are reserved from entry pursuant to section 24 of the Federal Power Act (16 USC 818)) [P.L. 102-486, 1992] and, the Secretary of Agriculture, with respect to lands within the National Forest System (except in each case land designated as wilderness), are authorized to grant, issue, or renew rights-of-way over, upon, under, or through such lands for roads, trails, highways, railroads, canals, tunnels, tramways, airways, livestock driveways, or other means of transportation except where such facilities are constructed and maintained in connection with commercial recreation facilities on lands in the National Forest System." The primary directive guiding all of BLM's decisions under FLPMA is to put public lands to their highest and best use.

The Applicant is requesting a grant of ROW approval from the BLM (Palm Springs-South Coast Field Office) for the solar and energy storage facility, gen-tie line, and associated components that are located on land under the jurisdiction of the BLM.

California Desert Conservation Area Plan (CDCA), 1980 As Amended. Section 601 of the FLPMA required preparation of a long-range plan for the CDCA. The CDCA Plan was adopted in 1980 to provide for the use of public lands and resources of the CDCA in a manner that enhances, wherever possible, and does not diminish, on balance, the environmental, cultural, and aesthetic values of the Desert and its productivity. The CDCA Plan is a comprehensive, long-range plan covering 25 million acres. Approximately 12 million acres (about half) of this total are public lands administered by the BLM on behalf of the CDCA.

The CDCA Plan contains goals and specific actions for the management, use, development, and protection of the resources and public lands within the CDCA, and is based on the concepts of multiple use, sustained yield, and maintenance of environmental quality.

The Project's gen-tie line would be partially located within BLM Designated Utility Corridor K, as identified in the CDCA Plan. The CDCA Plan designated utility Corridor K for "multi-modal use," allowing for new electrical gen-tie towers and cables of 161 kV or above. Utility Corridor K is also designated as Section 368 Federal Energy Corridor 30-52 in the Record of Decision for the West-Wide Energy Corridor (WWEC) PEIS. Energy Corridor 30-52 is identified for "multi-modal use," which allows for electricity transmission and distribution facilities. Section 368 corridors are identified with a numeric designation and are often overlain on locally designated corridors, as is the case with the east-west Section 368 two-mile-wide Corridor 30-52 overlying BLM Designated Utility Corridor K.

Desert Renewable Energy and Conservation Plan Land Use Plan Amendment to the CDCA. The Desert Renewable Energy Conservation Plan (DRECP) is a collaboration between the Bureau of Land Management, California Energy Commission, California Department of Fish and Game, and the U.S. Fish and Wildlife Service. The Record of Decision for the DRECP Land Use Plan Amendment (LUPA), Phase I of the larger collaboration, was signed in 2016 and is intended to facilitate the development of utility-scale

renewable energy and transmission projects on BLM-administered land in the Mojave and Colorado deserts in California to reach federal and state energy targets while conserving sensitive species and habitats as well as cultural, scenic, and social resources. The DRECP LUPA applies to nearly 10.8 million acres of BLM-managed federal lands in seven California counties. The portion of the Project that would be located on BLM land is designated as a Development Focus Area targeted for renewable energy development.

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3.12.2.2. State Laws, Regulations, and Policies

There are no specific state laws, regulations, or policies that are applicable to land use and planning at the Project site. Planning is the responsibility of the agencies having jurisdiction over the land, i.e., Riverside County and the BLM, respectively.

3.12.2.3. Local Laws, Regulations, and Policies

Riverside County General Plan. The Riverside County General Plan (RCGP) was adopted on October 7, 2003. Through a series of resolutions, the Board of Supervisors adopted an update on December 8, 2015. The RCGP consists of a vision statement and the following elements: Land Use, Circulation, Multi-purpose Open Space, Safety, Noise, Housing, Air Quality, and Administration. The RCGP sets forth County land use policies and guidance for implementation. The RCGP is augmented by more detailed Area Plans covering specific selected areas within the County. Area Plans provide a clear and more focused opportunity to enhance community identity within the County and stimulate quality of life at the community level. The proposed Project is within the County's Desert Center Area Plan.

RCGP land use designation for the Project area is Open Space Rural. The Land Use Element of the RCGP states that the:

"Open Space-Rural (OS-RUR) land use designation is applied to remote, privately owned open space areas with limited access and a lack of public services. Single-family residential uses are permitted at a density of one dwelling unit per 20 acres. The extraction of mineral resources subject to an approved surface mining permit may be permissible, provided that the proposed Project can be undertaken in a manner that is consistent with maintenance of scenic resources and views from residential neighborhoods and major roadways and that the Project does not detract from efforts to protect endangered species." (Riverside County, 2021a)

Policies at the General Plan and Area Plan levels implement the vision and goals of Riverside County. The County of Riverside Vision details the physical, environmental, and economic qualities that the County aspires to achieve. Using that Vision as the primary foundation, the RCGP establishes policies for development and conservation within the entire unincorporated County territory. The General Plan's policy goals that are potentially relevant to land use for the Project are provided below.

Land Use Element:

- Policy LU 2.1.c. The County shall provide a broad range of land uses, including a range of residential, commercial, business, industry, open space, recreation and public facility uses.
- Policy LU 2.1.g. Prevent inappropriate development in areas that are environmentally sensitive or subject to severe natural hazards.
- Policy LU 5.1. Ensure that development does not exceed the ability to adequately provide supporting infrastructure and services, such as libraries, recreational facilities, educational and day care centers, transportation systems, and fire/police/medical services.

Policy LU 7.1. Require land uses to develop in accordance with the Riverside County General Plan (RCGP) and area plans to ensure compatibility and minimize impacts.

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- Policy LU 8.1. The County shall accommodate the development of a balance of land uses that maintain and enhance the County's fiscal viability, economic diversity and environmental integrity (General Plan LU-26).
- Policy LU 9.1. Provide for permanent preservation of open space lands that contain important natural resources, cultural resources, hazards, water features, watercourses including arroyos and canyons, and scenic and recreational values.
- Policy LU 9.2. Require that development protect environmental resources by compliance with the Multipurpose Open Space Element of the RCGP and federal and state regulations such as CEQA, NEPA, the Clean Air Act, and the Clean Water Act.
- Policy LU 10.1. Require that new development contribute their fair share to fund infrastructure and public facilities such as police and fire facilities.
- Policy LU 14.1. The County shall preserve and protect outstanding scenic vistas and visual features for the enjoyment of the traveling public.
- Policy LU 14.5. Require new or relocated electric or communication distribution lines, which would be visible from Designated and Eligible State and County Scenic Highways, to be placed underground.
- Policy LU 17.2 Permit and encourage, in an environmentally and fiscally responsible manner, the development of renewable energy resources and related infrastructure, including but not limited to, the development of solar power plants in the County of Riverside.
- Policy LU 26.3 Ensure that development does not adversely impact the open space and rural character of the surrounding area. (AI 3)
- Policy LU 26.4 Encourage parcel consolidation. (AI 29)
- Policy LU 26.5 Provide programs and incentives that allow Open Space-Rural areas to maintain and enhance their existing and desired character. (AI 9)

Multi-Purpose Open Space Element

- Policy OS 11.1 Enforce the state Solar Shade Control Act, which promotes all feasible means of energy conservation and all feasible uses of alternative energy supply sources.
- Policy OS 11.2 Support and encourage voluntary efforts to provide active and passive solar access opportunities in new developments.
- Policy OS 11.3 Permit and encourage the use of passive solar devices and other state-of-the-art energy resources.
- Policy OS 11.4 Encourage site-planning and building design that maximizes solar energy use/potential in future development applications.

Desert Center Area Plan. The Project is located within the Desert Center Area Plan (DCAP). The DCAP envisioned little new development for the planning horizon (through 2020), except for infill and/or revitalization of the Eagle Mountain Townsite and contiguous expansion of the Desert Center and Lake Tamarisk communities. The DCAP was written in 2010 before widespread development of utility-scale renewable projects and as a result is largely silent on such development.

Riverside County Land Use Ordinance. Ordinance No. 348.4705 amends Ordinance No. 348 to Section <u>17.120.010 of the ordinance</u> authorizes solar power plants on lots 10 acres or larger, subject to a conditional use permit in particular zone classifications. Among others, these zones include Light Agriculture

(A-1), Controlled Development (W-2) and Natural Assets (N-A), which apply to County lands with the Project site.

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The Development Standards of Zone N-A state that no building shall exceed 20 feet in height (Section 15.201). The Development Standards of Zones W2 and A-1 state that no structure shall exceed 105 feet in height unless a variance is approved pursuant to Section 18.27 of the Land Use Ordinance. <u>However, under Chapter 17.208.010 of the County Code of Ordinances, a public use permit allows for facilities used for the storage or transmission of electrical energy and public utilities. As noted in the code chapter, facilities for the storage or transmission of electrical energy are not subject to the development standards of the zone classification in which they are located.</u>

The Project would require the following discretionary actions by the County to implement the Project:

- Conditional Use Permit (CUP 220021) is required for the construction, operation, and decommissioning of the proposed solar facility, electrical storage equipment, and any portion of the gen-tie line within the County of Riverside's jurisdiction.
- Public Use Permit (PUP 230002) is required for the portions of the 34.5 kV medium voltage collector lines and 500 kV gen-tie line that would cross roadways and be located within County jurisdiction.
- Variance (VAR 230003) may be necessary for any structures located within a Natural Assets (N-A) zone that would be higher than 20 feet, and in a Light Agriculture (A-1) or Controlled Development Area (W-2) zones that would exceed 105 feet.
- Contiguous Parcel Mergers. The Applicant is proposing to vacate the facility's interior roadways and merge contiguous Project parcels within the Project area into a contiguous area. Roads along the Project perimeter on the solar facility lands would remain dedicated public access.

Board of Supervisors Policy B-29/Development Agreement. Policy B-29 affects Land Use Element Policies LU 2.1.c, LU 5.1, LU 7.1, LU 8.1, LU 13.1, and LU 15.15. The purpose of Policy B-29 (Solar Power Plant Policy) is to ensure that the County does not disproportionately bear the burden of solar energy production and ensure the County is compensated in an amount it deems appropriate for the use of its real property. It requires a Development Agreement between the Board of Supervisors and solar power plant owners. The policy states that the solar power plant owner shall annually pay the County \$150 for each acre of land involved in the power production process, with the fee increasing 2 percent annually. It also lists requirements for solar power plant. The term of a development agreement under this policy shall be for a term coextensive with the operation of the solar power plant.

The proposed Project would be consistent with County policies, including the Desert Center Area Plan. The DCAP envisions limited development, with most of the area designated as Open Space-Rural. (173,530 acres out of 185,720 acres). However, most of the land thus designated is under the jurisdiction of the BLM and not subject to County plans and ordinances.

On lands under County jurisdiction, the Area Plan identifies a land use classification of Rural Desert – 10acre minimum but does not assign acreage within the Plan Area to this classification. This designation allows renewable energy uses including solar, geothermal and wind energy uses, as well as associated uses required to develop and operate these renewable energy sources, and compatible resource development and governmental and utility uses.

Those areas within the proposed Project site that are under County jurisdiction are designated as Rural Residential (RR)– 5-acre minimum. Among the uses allowed in these RR areas are "compatible resource development" and "associated uses and governmental uses."

Given the extensive existing solar development in the Project vicinity and the planned development of solar fields and associated equipment and facilities on BLM lands comprising most of the Project site, the use of the parcels under County jurisdiction for development solar facilities is considered a compatible resource development because such development would be similar in nature and intensity to the development proposed on adjoining BLM lands and already existing on nearby BLM lands.

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3.12.3. Methodology for Analysis

Evaluation of potential land use conflicts of the proposed Project was based on a review of relevant planning documents, including, but not limited to, the RCGP, Riverside County Zoning Ordinance, the CDCA Plan, and a review of the proposed solar facility site and surrounding area. The focus of the land use analysis is on land use conflicts that would result from implementation of the Project. Land use conflicts are identified and evaluated based on existing or authorized land uses, land uses proposed as part of the Project, land use designations, and standards and policies related to land use. Land use compatibility is based on the intensity and patterns of land use to determine whether the Project would result in incompatible uses or nuisance issues. Potential land use conflicts or incompatibility (specifically during construction activities) are usually the result of other environmental effects, such as generation of noise or air quality issues resulting from grading activities. These types of conflicts are addressed in other sections of this document addressing various environmental resources. Land use conflicts that would result from the Project's construction, operation, maintenance, and decommissioning are evaluated in this section.

3.12.4. CEQA Significance Criteria

The criteria used to determine the significance of potential land use and planning impacts are based on Appendix G of the State CEQA Guidelines and the County of Riverside's Environmental Assessment Form.

The County of Riverside's Environmental Assessment Form includes significance criteria that are the same as CEQA Appendix G requirements.

Using these criteria, the Project would result in a significant impact to land use and planning if it would:

• Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.

The following CEQA significance criterion from the County's Environmental Assessment Form was not included in the analysis:

Physically divide an established community.

The criterion was not included in the analysis because no part of the Project would divide an established community. The Project would be on undeveloped parcels and, while near the community of Lake Tamarisk Desert Resort, it would not physically divide a community.

3.12.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to land use and planning that are outside of the scope of the CEQA analysis and have been addressed below. Concerns related to property values and a request for a solar moratorium are discussed in Section 4.5 (Other Public Concerns).

Land Use and Planning Scoping Concern #1, ACEC Protection. Commenters noted that the BLM's Area of Critical Environmental Concern (ACEC) west of Kaiser Road needs to remain protected.

The proposed Project is east of Kaiser Road and would not impinge on the ACEC, located on BLMadministered land to the west of the road. The ACEC is setback from the west side of Kaiser Road and will remain protected desert tortoise habitat.

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Land Use and Planning Scoping Concern #2, Future Golf Course. It was noted that original plans for Lake Tamarisk included a second 9-hole golf course.

Regarding a second golf course, the original plans for the Lake Tamarisk community were not provided and no information has been found about a planned second golf course plan on the Lake Tamarisk Desert Resort website. Regardless, if there were such a plan, it is assumed that it would be located within the Lake Tamarisk property. There is no known reservation of land for a golf course on the lands that are within the Easley Project site.

Land Use and Planning Scoping Concern #3, DCAP and DRECP. One commenter cited the Desert Center Area Plan, noting that the plan focuses on preserving the unique features found in the Desert Center area. The commenter encouraged decisionmakers to move the Easley and Sapphire solar projects to the east. The commenter believes that the Project area is under Riverside County jurisdiction and the DCAP should apply, but that the DCAP is being ignored. The commenter believes that the DRECP LUPA states that project rights-of-way and permits can be denied if local planning and zoning conflicts with the proposed renewable project even if it is within a DFA.

Desert Center Area Plan. The DCAP includes statements about future visions for the Desert Center area. These are aspirational descriptions based on what was known and envisioned at the time the plan was prepared (see Section 3.12.2.3). The descriptive aspects of the DCAP are generalized and not tied to any specific location within the plan area. Being presented geographically on maps, the land use categories included in the plan are more specific. In turn, all non-federal properties within the plan area fall under the County zoning code, which identifies what are allowed uses of the parcels and under what conditions the uses are approved. As shown in the DCAP mapping, outside the limits of the existing communities most of the plan area is designated as "Open Space Rural" (173,530 acres of the 185,720 acres in the plan area). Although they are not distinguished in the DCAP's land use designation map (DCAP Figure 3) most land within the DCAP is under BLM or National Park Service jurisdiction (as shown on DCAP Figure 6); these lands are not subject to local regulations and plans. In the Desert Center area, large-scale solar projects are allowed uses under both County zoning and BLM land use designations.

Desert Renewable Energy and Conservation Plan. Originally, the intent of the DRECP process was to include both federal and state lands in southeastern California under a single plan. However, the final DRECP LUPA and Record of Decision apply only to BLM-administered lands withing the plan boundary. As required, a Governor's Consistency Review was prepared on the LUPA that would implement the DRECP. The Governor's Office did not identify any inconsistencies between the proposed LUPA and any state or local plans, policies, or programs. The counties continue to administer solar development processes on lands under their jurisdiction, separate from federal administration of projects on federal land.

Land Use and Planning Scoping Concern #4, Existing Easements/ROWs. The Metropolitan Water District (MWD) expressed concerns about the Project being adjacent to its ROW and noted that MWD must be allowed to maintain the ROW and have unobstructed access to its facilities. Permission to use MWD land is required. MWD provided a map showing ROW and the proposed Project. A major MWD ROW is located north of any areas planned for Project facilities, including solar arrays.

A main MWD drainage ROW crosses the Project site; however, all Project facilities, including solar arrays, are located south of the ROW and would not encroach on it. The Applicant is in negotiations with the MWD, as well as other existing ROW holders, to ensure that there are no conflicts with existing or proposed easements across the Easley Project site.

Land Use and Planning Scoping Concern #5, Alternative Sites. Several commenters suggested that solar projects planned for sites west of SR-177/Rice Road should be shifted to lands east of SR-177 and away from the Lake Tamarisk community.

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BLM-administered lands included in the Easley Project site between Kaiser Road and SR-177 have been designated as DFA, suitable for solar project development. Lands under County jurisdiction that are within the Project site allow for solar development. In addition to engineering constraints, several large solar projects exist, are planned, or are under development east of SR-177, limiting the feasibility of the Easley Project to be relocated. Consideration of alternative sites farther from the community of Lake Tamarisk is discussed in Section 2.9 (Alternatives Considered and Eliminated from Further Analysis).

Impact LU-1. The Project would cause a significant environmental impact due to a conflict with applicable land use plan, policies, policy, or regulations adopted for the purpose of avoiding or mitigating an environmental effect.

Solar and BESS Facility

Less THAN SIGNIFICANT. Construction, operations and maintenance, and decommissioning of the Project would be subject to the RCGP, Desert Center Area Plan, CDCA Plan as Amended, and County Ordinances. Table 3.12-1, Consistency with Regional and Local Land Use Plans, Policies, and Regulations, describes how the Project would be consistent with applicable local land use plans, policies, or regulations.

Policy/Regulations/ Goals	Description	Consistency Analysis
Land Use Element	·	· ·
LU 2.1.c	Requires a broad range of land uses, inclu- ding a range of residential, commercial, business, industry, open space, recreation and public facility uses.	Consistent. The Project would not limit the range of land uses.
LU 2.1.g	Prevent inappropriate development in areas that are environmentally sensitive or subject to severe natural hazards.	Consistent. Solar arrays and structures would be situated on areas of the Project site that are not environmentally sensitive. Sensitive areas would be undisturbed. The Project would com- ply with applicable conservation and manage- ment actions (CMAs) from the DRECP LUPA.
LU 5.1	Requires development does not exceed the ability to adequately provide support- ing infrastructure and services	Consistent. The Project would not result in a permanent increase in population or associated infrastructure or services.
LU 7.1	Require land uses to develop in accord- ance with the RCGP and area plans to en- sure compatibility and minimize impacts	Consistent. The Project would be consistent with the RCGP and Desert Center Area Plan. With a Conditional Use Permit, the Project is an allowed use under the zoning ordinance.
LU 8.1	Develop a balance of land uses that main- tain and enhance the County's fiscal via- bility, economic diversity and environ- mental integrity	Consistent. The Project would help maintain and enhance the County's fiscal viability by increasing the revenue of the County with little need for services. Environmentally sensitive areas of the site would be undisturbed.
LU 9.1	Provide for permanent preservation of open space lands that contain important natural resources, cultural resources, haz- ards, water features, watercourses includ- ing arroyos and canyons, and scenic and recreational values.	Consistent. The Project is not within an area with important natural resources. Environmentally sensitive aeras would not be disturbed.

Table 3.12-1. Consistency with Regional and Local Land Use Plans, Policies, and Regulations

Policy/Regulations/ Goals	Description	Consistency Analysis
LU 9.2	Require that development protect envi- ronmental resources by compliance with the Multipurpose Open Space Element of the RCGP and federal and state regula- tions such as CEQA, NEPA, the Clean Air Act, and the Clean Water Act	Consistent. The Project would comply with CEQA, NEPA, and other federal and local resource conservation laws and regulations.
LU 10.1	Require that new development contribute their fair share to fund infrastructure and public facilities such as police and fire facilities	Consistent. The Project is not anticipated to cause additional impacts to public facilities and would coordinate with the County for any additional public needs. Per acre annual fees would be paid to the County.
LU 14.1	Preserve and protect outstanding scenic vistas and visual features for the enjoy- ment of the traveling public	Consistent. The Project would be located on lands that are near existing solar projects and existing electrical facilities. See Section 3.2, Aesthetics, of this EIR for more information.
LU 14.5	Require new or relocated electric or com- munication distribution lines, which would be visible from Designated and Eligible State and County Scenic Highways, to be placed underground	Consistent. The Project gen-tie line would be visible from County-eligible scenic highway I-10; however, the gen-tie would parallel existing electrical lines and be located in an existing utility corridor.
LU 17.2	Permit and encourage, in an environmen- tally and fiscally responsible manner, the development of renewable energy resources and related infrastructure, including but not limited to, solar power plants in the County of Riverside	Consistent. The Project is a renewable energy project and will be reviewed under CEQA to reduce significant environmental impacts.
LU 26.3	Ensure that development does not adversely impact the open space and rural character of the surrounding area.	Consistent. The Project is located near existing solar projects. The nature of the use is compatible with open space, and it would not impair the rural character of the surrounding area.
LU 26.4	Encourage parcel consolidation.	Consistent. The Project includes parcel consolidation.
LU 26.5	Provide programs and incentives that allow Open Space-Rural areas to maintain and enhance their existing and desired character	Consistent. The Project would be located on near existing solar projects. Some open space areas will be impacted, open space areas not occupied by Project facilities would maintain their character.
Multi-Purpose Open	Space Element	
OS 11.1	Enforce the state Solar Shade Control Act, which promotes all feasible means of energy conservation and all feasible uses of alternative energy supply sources	Consistent. The Project would be a renewable energy solar project.
OS 11.2	Support and encourage voluntary efforts to provide active and passive solar access opportunities in new developments	Consistent. The Project would be a renewable energy solar project.
OS 11.3	Permit and encourage the use of passive solar devices and other state-of-the-art energy resources	Consistent. The Project would be a renewable energy solar project.
OS 11.4	Encourage site-planning and building design that maximizes solar energy use/ potential in future development applications	Consistent. The Project would be a renewable energy solar project.

Policy/Regulations/ Goals	Description	Consistency Analysis
Desert Center Area Pla	an	
Desert Center Area Plan (DCAP) 3.1	Protect farmland and agricultural resources in Desert Center through adherence to the Agricultural Resources section of the General Plan Multipurpose Open Space Element and the Agriculture section of the General Plan Land Use Element, as well as the provisions of the agriculture land use designation	Consistent. While the Project would be located on some parcels that could be available for agricultural use, most of the parcels have not been actively farmed. At the conclusion of the Project, the land could be returned to agricul- tural use.
DCAP 4.1	When outdoor lighting is used, require the use of fixtures that would minimize effects on the nighttime sky and wildlife habitat areas, except as necessary for security reasons.	Consistent. Security lights around the substation, and other locations would be motion sensitive and directional. All lighting would be shielded and directed downward to minimize the potential for glare or spillover onto adjacent properties.
DCAP 5.2	Maintain Riverside County's roadway Level of Service standards as described in the Level of Service section of the General Plan Circulation Element.	Consistent. Increase traffic during construction can affect LOS. With implementation of mitigation in Section 3.18 (Traffic and Transportation), the Project is not anticipated to impact the County roadway level of service.
DCAP 8.1	Protect the scenic highways within the Desert Center Area Plan from change that would diminish the aesthetic value of adjacent properties through adherence to the policies found in the Scenic Corridors sections of the General Plan Land Use, Multipurpose Open Space, and Circulation Elements.	Consistent. An approved solar facility is under development between the Project and I-10. The Easley Project gen-tie would parallel the I-10 in an existing utility corridor with existing electrical facilities. See Section 3.2, Aesthetics, of this EIR for more information.
DCAP 9.1	Encourage clustering of development for the preservation of contiguous open space.	Consistent. The Project would be located near existing solar projects and several proposed or approved solar projects. Environmentally sensitive areas within the Project site would remain open.
DCAP 9.2	Work to limit off-road vehicle use within the Desert Center Area Plan.	Consistent. The Project would not encourage off-road vehicle use.
DCAP 9.3	Require new development to conform with Desert Tortoise Critical Habitat desig- nation requirements.	Consistent. The Project solar and BESS facili- ties would not be located in Desert Tortoise Critical Habitat. <u>Critical habitat within the</u> <u>Chuckwalla Desert Tortoise CHU</u> , which is encompassed under Tortoise Conservation Areas (TCAs), is located near the Project site across Kaiser Road to the west. The gen-tie line would cross designated desert tortoise critical habitat in the southeastern portion of the adjacent Oberon Project site. Mitigation measures provide for restoration of habitats in coordination with CDFW, USFWS, and RWQCB.
Riverside County Zoni	ng Ordinance No. 348	
Section 13.1.d Uses Permitted in A-1 Zone (Light Agriculture)	This zone permits a solar power plant on lots 10 acres or larger upon issuance of a CUP.	Consistent. With approval of the CUP-and a Variance, the Project would be an allowable use under this zone.

Policy/Regulations/		
Goals	Description	Consistency Analysis
Section 15.1.d. (32) Uses Permitted in W-2 Zone (Controlled Development Areas)	This zone permits a solar power plant on lots 10 acres or larger upon issuance of a CUP.	Consistent. With approval of the CUP-and-a Variance, the Project would be an allowable use under this zone.
Section 15.200 Uses Permitted in N-A Zone (Natural Assets)	This zone permits a solar power plant on lots 10 acres or larger upon issuance of a CUP.	Consistent. With approval of the CUP-and a height Variance, the Project would be an allowable use under this zone.

Riverside County General Plan

The Project would be a conditionally permitted use within consistent with the land use designation Open Space Rural (OS-RUR), <u>Agriculture (AG)</u>, and Natural Assets (N-A) with approval of a conditional use permit (CUP) and completion of an environmental review. Table 3.12-1 above describes how the Project would be consistent with the Land Use and Multi-Purpose Open Space Elements.

The Applicant is also seeking to merge contiguous Project parcels. Roads along the Project perimeter of the solar facility lands (Rice Road and Kaiser Road) would remain dedicated public access. Access on existing unimproved roads to private and public lands not included in the Project site would remain unimpeded. This merger of parcels would be consistent with LU 26.4, encourage parcel consolidation, and because the perimeter roads and unimproved access roads would remain open to the public, it would not result in a loss of access.

The existing and known planned land uses surrounding the Project are similar in nature to those identified for the Project, primarily Open Space Rural. The parcels in the vicinity of the solar facility are zoned N-A, W-2-10, A-1-20 (Light Agriculture [20-acre minimum]), C-P-S (Scenic Highway Commercial), M-H (Manufacturing Heavy), all of which allows solar power development on a lot 10 acres or larger with a CUP.

Although the Project is consistent with the surrounding zoning and land use, nearby residences expressed concerns regarding impacts to their lifestyle from noise, traffic and access, night lighting, and dust, as well the potential for a loss of property value. Noise is addressed in Section 3.13 (Noise), traffic and access are addressed in Section 3.18 (Traffic and Transportation), night lighting is addressed in Section 3.2 (Aesthetics), and dust is addressed in Section 3.4 (Air Quality). Potential effects on property value are addressed above in the introduction to Section 3.12.5. Where appropriate, these sections include mitigation to reduce the concerns expressed by the public including dust abatement, public notification, and traffic plans.

Desert Center Area Plan and Riverside County Zoning Ordinance

The proposed Project would be is a conditionally permitted use under the A-1, W2, and N-A zones. The Project would not conflict with the Desert Center Area Plan and Riverside County Zoning Ordinance, see Table 3.121.

Board of Supervisors Policy B-29. The Project is subject to Policy B-29, and the developer would need to enter into a development agreement with the County following the guidelines noted in the regulatory setting. Once the agreement is enacted, the Project would comply with this policy.

Federal Policies, Regulations, and Goals

The solar and BESS facility would be largely located on federal land and would be subject to the federal policies, regulations, and goals. Some BLM-administered lands are designated as Development Focus Areas in the DRECP Land Use Plan Amendment (LUPA). These are areas where renewable energy generation is an allowable use, incentivized and could be streamlined under the DRECP LUPA. The Project would not conflict with this designation.

Existing or Planned Land Uses

The solar facility site would be crossed by or adjacent to a number of planned and existing land uses, including existing roads, existing distribution lines, a MWD property and rights-of-way, an existing Southern California Edison (SCE) 161 kV transmission line, and the proposed Eagle Mountain Project gen-tie line. By law, the Applicant would be required to coordinate with any legally existing rights-of-way or conflicting uses to ensure the Project does not adversely impact these uses, including bearing the cost of this coordination.

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500 kV Generation-Tie Line

LESS THAN SIGNIFICANT. Most of the proposed gen-tie line between the proposed Easley Substation and the <u>existing</u> Oberon <u>Substation_Switchyard</u> would be within the adjacent Oberon Renewable Energy Project on BLM-administered land. The line would cross over SR-177 (Rice Road). Construction, operations and maintenance, and decommissioning of the gen-tie line would not conflict with the Desert Center Area Plan or Riverside County Zoning Ordinance, see Table 3.12-1. The gen-tie line would be on federal property except at the point where it crosses over SR-177 (Rice Road) enroute to the Oberon <u>SubstationSwitchyard</u>. This crossing would require a Caltrans encroachment permit and would be required to comply with Caltrans requirements for line clearances and for motorist safety during construction. Any overhead medium voltage collector line crossings would also require a Caltrans encroachment permit.

Federal Policies, Regulations, and Goals

The gen-tie line to the Oberon Substation Switchyard would cross BLM-administered land designated as Development Focus Area (DFA) in the DRECP LUPA to the CDCA. The DFA designation allows for the development of renewable energy facilities and associated infrastructure including gen-tie lines without requiring a land use plan amendment. The gen-tie would all be consistent with the DRECP LUPA and CDCA. Most of the gen-tie line would be within a designated utility corridor. Designated utility corridors allow for transmission infrastructure without requiring a land use plan amendment. The requiring a land use plan amendment. The gen-tie line would not conflict with federal policies, regulations, and goals.

Because the proposed Project (solar and BESS facility and gen-tie line) would not conflict with applicable land use plans, policies, and regulations, and would not result in an alteration of the present or planned land use of an area, or be inconsistent or incompatible with the site's existing, proposed or surrounding zoning or land use, there would be no impactimpacts would be less than significant.

Mitigation Measures for Impact LU-1

No mitigation would be required.

Significance After Mitigation

There would be no conflict with applicable land use plans, policies, or regulations. No impact would occurImpacts would be less than significant.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.12.6. Cumulative Impacts

Geographic Scope

Impacts resulting from construction, operation, maintenance, and decommissioning of the Project could result in a cumulative effect on land use in combination with other past, present, or reasonably foresee-

able future actions. The geographic scope of the cumulative effects analysis for land use consists of eastern Riverside County. This is based on the jurisdictional boundaries within which the impacts of land use decisions of the Easley Project and other projects described in Tables 3.1-1 and 3.1-2 and shown on Figure 3.1-1 could be additive or synergistic.

The timeframe refers to the duration over which impacts associated with land use would occur short-term or long-term. Short-term impacts to land use would occur during the construction and decommissioning period. Long-term impacts associated with land use would result from developing a solar facility in the Project area and the associated change in land use over its operational life (35 to 50 years or more).

Cumulative Impact Analysis

Past and planned development has increased human use of land in the geographic scope of the Project <u>site</u>. Because of the limited availability of water, h<u>H</u>uman development in the geographic scope has been limited to small, scattered communities set among large tracts of undeveloped land. Large tracts of federal land in the desert region are reserved for uses that preclude development. If adopted, the proposed expansion of Joshua Tree National Park and creation of Chuckwalla National Monument would redesignate existing federal lands in the Project vicinity but would not create physical changes in the environment that would contribute to cumulative impacts. If approved by Congress, the designated lands west, north, and south of the Project would not be available for development.

Past and present projects near the Project site on private lands primarily include agricultural operations with some rural residences. The resort community of Lake Tamarisk is to the immediate southwest of the Project. Past projects also include the Kaiser Mine, northwest of the Project. Public lands withing the proposed Project site and in the vicinity have been designated as suitable for renewable energy development and have been, continue to be, and are planned to be primarily developed with large-scale solar projects. Many solar renewable projects and the Eagle Mountain Pumped Storage Project have been proposed on both BLM-administered land and private land (see Table 3.1-2). The projects on public land are in DFAs and the ones on private land are primarily on land designated as agriculture or open space.

With appropriate permitting, each project would not result in <u>significant</u> impacts on land use<u>as they are</u> <u>allowed uses</u>. However, the Desert Center Area Plan did not anticipate the potential development of multiple solar projects within the plan area. If many of the projects are built, they could conflict with the goals of the Desert Center Area Plan andpProject development would result in the loss of <u>current</u> open space which the Area Plan and the General Plan strive to preserve. Tbut this would <u>not</u> be considered a cumulatively significant impact on land use, as the solar projects are an allowed use and consistent with <u>County and BLM</u> policies which encourage their development.

Potential land use impacts require evaluation on a case-by-case basis. The Easley Project would be consistent with the goals and policies of the Riverside County General Plan, and other applicable local land use plans, policies, and regulations and with the federal plans. In addition, with approval of all discretionary requests, the Project would be an allowable use that would not conflict with the land use or zoning classifications for the site. Therefore, <u>cumulative impacts would be less than significant and the Project's incremental contribution to cumulative impacts to land use would not be considerable.</u>

The cumulative impacts of the gen-tie line would be the same as for the solar facility because the gen-tie line would be within a solar field underdevelopment and adjacent to existing or planned transmission lines and would not result in an additive or cumulative impact with the other renewable energy development in eastern Riverside County.

Mitigation Measures for Cumulative Impacts

No mitigation would be required.

Significance After Mitigation

<u>Cumulative impacts would be less than significant.</u> The Project's incremental contribution to impacts to land use would not be cumulatively considerable.

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3.12.7. Mitigation Measures

All land use and planning impacts would be less than significant, and no mitigation would be required.

3.13. Noise and Vibration

This section evaluates the environmental impacts caused by the noise and ground-borne vibration levels resulting from implementation of the proposed Easley Project. The analysis in this section: presents the fundamentals of environmental noise; describes the applicable policies and ordinances; identifies the criteria used for determining the significance of environmental impacts; and describes the potential noise and vibration impacts of the proposed Project. <u>An impact analysis and comparison of project alternatives is included in Section 5.</u> Noise impacts to wildlife are separately addressed in this EIR in Section 3.5, Biological Resources.

3.13.1. Environmental Setting

3.13.1.1. Fundamentals of Community Noise

To describe environmental noise and to assess impacts on areas that are sensitive to community noise, a measurement scale that simulates human perception is used. The A-weighted scale of frequency sensitivity accounts for the sensitivity of the human ear, which is less sensitive to low frequencies, and correlates well with human perceptions of the annoying aspects of noise. The A-weighted decibel (dBA) is cited in most noise criteria. Decibels are logarithmic units that can be used to conveniently compare wide ranges of sound intensities.

Community noise levels can be highly variable from day to day as well as between day and night. For simplicity, sound levels are usually best represented by an equivalent level over a given time period (Leq) or by an average level occurring over a 24-hour day-night period (Ldn). The Leq, or equivalent sound level, is a single value (in dBA) for any desired duration, which includes all the time-varying sound energy in the measurement period, usually one hour. The L50, is the median noise level that is exceeded fifty percent of the time during any measuring interval. The Ldn, or day-night average sound level, is equal to the 24-hour A-weighted equivalent sound level with a 10-decibel penalty applied to nighttime sounds occurring between 10:00 p.m. and 7:00 a.m. Community Noise Equivalent Level (CNEL) is another metric that is the average equivalent A-weighted sound level during a 24-hour day, obtained after addition of five decibels to sound levels in the evening from 7:00 p.m. to 10:00 p.m. and after addition of 10 decibels to sound levels in the night from 10:00 p.m. to 7:00 a.m. To easily estimate the day-night level caused by any noise source emitting steadily and continuously over 24 hours, the Ldn is 6.4 dBA higher than the source's Leq. For example, if the expected continuous noise level from equipment is 50.0 dBA Leq for every hour, the day-night noise level would be 56.4 dBA Ldn.

Community noise levels are usually closely related to the intensity of human activity. Noise levels are generally considered low when below 45 dBA, moderate in the 45 to 60 dBA range, and high above 60 dBA. In small towns or wooded and lightly used residential areas, the Ldn is more likely to be around 50 or 60 dBA. Levels around 75 dBA are more common in busy urban areas, and levels up to 85 dBA occur near major freeways and airports (OPR, 2017). Although people often accept the higher levels associated with very noisy urban residential and residential-commercial zones, they nevertheless are considered to be adverse to public health.

Surrounding land uses dictate what noise levels would be considered acceptable or unacceptable. Lower levels are expected in rural or suburban areas than would be expected for commercial or industrial zones. Nighttime ambient levels in urban environments tend to be higher than the nighttime noise levels in rural areas away from roads and other human activity. Areas with full-time human occupation and residency are often considered incompatible with substantial nighttime noise because of the likelihood of disrupting sleep. Noise levels above 45 dBA at night can result in the onset of sleep interference. At 70 dBA, sleep interference effects become considerable (U.S. EPA, 1974).

3.13.1.2. Existing Noise Environment

Ambient noise measurements were not conducted for this analysis because the environmental setting can be described from information drawn from previous studies in the area. The noise environment of the Project area depends on the proximity of the receiver to noise from vehicular traffic on State Route 177 (SR-177) or Interstate 10 (I-10). Locations away from these highways experience very low levels of noise. Because few human-induced sources of noise occur around the Project area, the noise environment is generally serene and quiet apart from traffic on the area roadways. Based on population density in the Project area, the natural background day-night noise levels are likely 35 to 45 dBA, which corresponds to the range of levels in wilderness and rural areas (BLM, 2010).

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Historically, noise surveys conducted for the Riverside County General Plan found locations along I-10 to be exposed to approximately 81.9 dBA Ldn near the edge of the highway and over 60 dBA Ldn for any location within approximately 2,000 feet of the I-10 centerline (Riverside County, 2015a). Locations along SR-177 are exposed to less noise due to lower levels of traffic. Traffic data collected for SR-177 near the Project site shows roughly 2,200 vehicles daily and approximately 14 percent of the baseline vehicles are trucks (Caltrans, 2023). With this mix of baseline traffic, baseline noise levels would be approximately 63 dBA Ldn at 100 feet from the centerline of SR-177. For any location more than 400 feet from SR-177, baseline noise levels would be less than 55 dBA Ldn. (Calculations appear in EIR Appendix K.)

3.13.1.3. Noise Sensitive Receptors

In the Riverside County Noise Ordinance and Noise Element, "noise-sensitive" land uses include but are not limited to residences, passive recreation areas, schools, hospitals, rest homes, places of worship and cemeteries (Riverside County, 2015b). Noise sensitive areas are places where quiet is necessary for the intended use of the land, such as residences where noise can interfere with sleep, concentration, and communication, and where excessive noise can cause physiological and psychological stress and hearing loss.

The description of noise-sensitive receptors focuses on noise sensitive land uses or inhabited dwellings within one-quarter mile of proposed activities because the County's Ordinance No. 847 provides an exemption for construction noise that occurs one-quarter mile or more from the nearest inhabited dwelling.

The proposed Easley Project site is near the Lake Tamarisk community in unincorporated Riverside County and would develop land that is primarily used as open space. The site would be along the alignments of SR-177 or Rice Road and Kaiser Road.

The nearest sensitive land uses include the Lake Tamarisk community and occasional rural residences along SR-177 (Rice Road), such as near Black Binder Road. The Lake Tamarisk community and homes along Kaiser Road would be adjacent to the southwestern-most parcels of the proposed Easley Project. The nearest home in Lake Tamarisk on Shasta Drive would be approximately 0.05 miles (260 feet) from the boundaries of the Easley Project, although construction activity would be set back substantially, at least 200 meters (656 feet), from this residential land use.

3.13.1.4. General Information on Vibration

Vibration from objects in contact with the ground will propagate energy through the ground and can be perceptible by humans and animals in the form of perceptible movement or in the form of rumbling sound caused by the vibration of room surfaces. The latter is described as ground-borne noise. High levels of vibration can result in architectural damage and structural damage depending upon the amplitude of the vibration and the fragileness of the building or structure.

Vibration is an oscillatory motion through a solid medium, in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. When assessing damage potential, vibration is often measured and reported in terms of peak particle velocity (PPV) or ground acceleration. Vibration can be felt outdoors. However, the perception of vibration is much greater indoors, due to the shaking of the structure. Some of the most common sources of vibration come from trains and transit vehicles, construction equipment, airplanes, and large vehicles (Riverside County, 2015b).

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3.13.2. Regulatory Framework

3.13.2.1. Federal Laws, Regulations, and Policies

Regulating environmental noise is generally the responsibility of local governments. The U.S. EPA published guidelines on recommended maximum noise levels to protect public health and welfare (U.S. EPA, 1974), and on-site noise levels are subject to federal protections for workers. To protect workers from excessive on-site noise levels, the Occupational Safety and Health Act of 1970 (OSHA) sets on-site occupational noise exposure levels, which are regulated in California via the California Occupational Safety and Health Administration (Cal/OSHA). The maximum time-weighted average noise exposure level of workers is 90 dBA over an eight-hour work shift (29 CFR § 1910.95).

3.13.2.2. State Laws, Regulations, and Policies

For the purpose of limiting population exposure to physically or psychologically significant noise levels, the State of California maintains recommendations for local jurisdictions in the General Plan Guidelines published by the Governor's Office of Planning and Research (OPR, 2017). The General Plan Guidelines suggest ranges of acceptability for a given land use within a range of noise exposures. For residences, an exterior noise level of up to 60 dBA CNEL is considered "normally acceptable," and a noise level of greater than 75 dBA CNEL is considered "clearly unacceptable." To protect the interiors of new multifamily residential units, State law requires the study of noise insulation measures when exterior noise levels exceed 60 dBA CNEL, according to the California building code (California Code of Regulations, Title 24).

3.13.2.3. Local Laws, Regulations, and Policies

Riverside County General Plan Noise Element

Policies for Noise Compatibility of Land Uses

The County's General Plan, Noise Element (2015) provides the guidelines on Land Use Compatibility for Community Noise Exposure, which are used to evaluate potential noise impacts and to set the criteria for environmental impact findings and conditions for project approval. Land use compatibility defines the acceptability of a land use in a specified noise environment. The land use compatibility criteria adopted by Riverside County as part of the Noise Element of the General Plan appear in Table 3.13-1.

Table 3.13-1.	. Riverside County Land Use Compatibility Standards (CNEL or Ldn Noise Level)	
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Land Use Category	Normally Acceptable	Conditionally Acceptable	Normally Unacceptable	Clearly Unacceptable
Residential – Low-density (single-family, duplex, mobile homes)	Up to 60 dBA	55–70 dBA	70–75 dBA	Over 75 dBA
Residential – Multiple-family	Up to 65 dBA	60–70 dBA	70–75 dBA	Over 75 dBA
Transient lodging, motels, hotels	Up to 65 dBA	60–70 dBA	70–80 dBA	Over 80 dBA
Schools, libraries, churches, hospitals, nursing homes	Up to 70 dBA	60–70 dBA	70–80 dBA	Over 80 dBA

Land Use Category	Normally Acceptable	Conditionally Acceptable	Normally Unacceptable	Clearly Unacceptable
Auditoriums, concert halls, amphitheaters	Category not used	Up to 70 dBA	Over 65 dBA	Category not used
Sports arenas, outdoor spectator sports	Category not used	Up to 75 dBA	Over 70 dBA	Category not used
Playgrounds, neighborhood parks	Up to 70 dBA	Category not used	67.5–75 dBA	Over 72.5 dBA
Golf courses, riding stables, water recreation, cemeteries	Up to 75 dBA	Category not used	70–80 dBA	Over 80 dBA
Office buildings, business commercial, professional	Up to 70 dBA	67.5–77.5 dBA	Category not used	Over 75 dBA
Industrial, manufacturing, utilities, agriculture	Up to 75 dBA	70–80 dBA	Category not used	Over 75 dBA

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Source: General Plan, Noise Element Table N-1 (Riverside County, 2015b).

The following General Plan, Noise Element (2015) policies protect noise-sensitive land uses from noise emitted by outside sources and prevent new projects from generating adverse noise levels on adjacent properties.

- Policy N 1.1. Protect noise-sensitive land uses from high levels of noise by restricting noise-producing land uses from these areas. If the noise-producing land use cannot be relocated, then noise buffers such as setbacks, landscaping, or block walls shall be used.
- Policy N 1.2. Guide noise-tolerant land uses into areas irrevocably committed to land uses that are noise-producing, such as transportation corridors or within the projected noise contours of any adjacent airports.
- Policy N 1.4. Determine if existing land uses will present noise compatibility issues with proposed projects by undertaking site surveys.
- Policy N 1.5. Prevent and mitigate the adverse impacts of excessive noise exposure on the residents, employees, visitors, and noise-sensitive uses of Riverside County.
- Policy N 1.6. Minimize noise spillover or encroachment from commercial and industrial land uses into adjoining residential neighborhoods or noise-sensitive uses.
- Policy N 1.8. Limit the maximum permitted noise levels that cross property lines and impact adjacent land uses, except when dealing with noise emissions from wind turbines.
- Policy N 3.2. Require acoustical studies and subsequent approval by the Planning Department and the Office of Industrial Hygiene, to help determine effective noise mitigation strategies in noise-producing areas.
- Policy N 3.3. Ensure compatibility between industrial development and adjacent land uses. To achieve compatibility, industrial development projects may be required to include noise mitigation measures to avoid or minimize project impacts on adjacent uses.
- Policy N 3.5. Require that a noise analysis be conducted by an acoustical specialist for all proposed projects that are noise producers. Include recommendations for design mitigation if the project is to be located either within proximity of a noise-sensitive land use, or land designated for noise sensitive land uses.
- Policy N 3.6. Discourage projects that are incapable of successfully mitigating excessive noise.

 Policy N 3.7. Encourage noise-tolerant land uses such as commercial or industrial, to locate in areas already committed to land uses that are noise-producing.

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Policies for Temporary Construction Noise

The Noise Element of the General Plan includes numerous policies intended to minimize noise-related conflicts between adjacent types of land uses. Policies addressing "temporary construction" activities include:

- Policy N 13.1. Minimize the impacts of construction noise on adjacent uses within acceptable practices.
- Policy N 13.2. Ensure that construction activities are regulated to establish hours of operation in order to prevent and/or mitigate the generation of excessive or adverse noise impacts on surrounding areas.
- Policy N 13.4. Require that all construction equipment utilize noise reduction features (e.g., mufflers and engine shrouds) that are no less effective than those originally installed by the manufacturer.

Policies for Mitigation of Stationary Sources of Noise

The Noise Element of the General Plan also identifies preferred noise standards for stationary noise sources that affect residential land uses and provides direction to mitigate stationary source noise. Policy N 4.1 of the Noise Element sets a stationary-source exterior noise limit to not to be exceeded for a cumulative period of more than ten minutes in any hour of 65 dBA Leq for daytime hours of 7:00 a.m. to 10:00 p.m., and 45 dBA Leq during the noise-sensitive nighttime hours of 10:00 p.m. to 7:00 a.m. For new stationary sources of noise, the Noise Element includes:

- Policy N 2.3. Mitigate exterior and interior noises to the levels listed in Table N-2 below to the extent feasible, for stationary sources. These standards are shown in Table 3.13-2.
- Policy N 4.1. Prohibit facility-related noise received by any sensitive use from exceeding the following worst-case noise levels:
 - (a) 45 dBA-10-minute Leq between 10:00 p.m. and 7:00 a.m.
 - (b) 65 dBA-10-minute Leq between 7:00 a.m. and 10:00 p.m.
- Policy N 4.2. Develop measures to control non-transportation noise impacts.
- Policy N 4.3. Ensure any use determined to be a potential generator of significant stationary noise impacts be properly analyzed and ensure that the recommended mitigation measures are implemented.

Land Use	Time of Day	Interior Noise Standard	Exterior Noise Standard
Residential	10:00 p.m. to 7:00 a.m.	40 Leq, 10 minute	45 Leq, 10 minute
Residential	7:00 a.m. to 10:00 p.m.	45 Leq, 10 minute	65 Leq, 10 minute

Table 3.13-2. Stationary Source Land Use Noise Standards

Source: General Plan, Noise Element Table N-2 (Riverside County, 2015b).

Note: The Noise Element of the General Plan indicates that these levels are preferred standards; final decision will be made by the Riverside County Planning Department and Office of Public Health.

Policies for Ground-borne Vibration

Ground-borne vibrations can be a source of annoyance to people or a source of structural damage to some types of buildings. The Noise Element of the Riverside County General Plan (2015) includes consideration of human reaction to ground-borne vibrations in terms of the peak particle velocity (PPV) measured in inches per second (in/sec). Residential areas, schools, and sensitive research operations are among the land uses that are vibration sensitive. Table 3.13-3 describes the typical human reaction in response to certain vibration levels.

Vibration Level PPV (inches/second)	Human Reaction		
0.0059–0.0188	Threshold of perception, possibility of intrusion		
0.0787 Vibrations readily perceptible			
0.0984	Continuous vibration begins to annoy people		
0.1968	Vibrations annoying to people in buildings		
0.3937–0.5905	Vibrations considered unpleasant when continuously subjected and unacceptable by some walking on bridges		

 Table 3.13-3.
 Human Reaction to Typical Vibration Levels

Source: Caltrans data in General Plan, Noise Element Table N 3 (Riverside County, 2015b).

Riverside County Noise Ordinance

The County Noise Ordinance allows for different levels of acceptable noise depending upon land use. The Noise Ordinance or Ordinance No. 847 (Regulating Noise) is incorporated in the County Code as Chapter 9.52 (Noise Regulation). The standards in Chapter 9.52.040 (also Section 4 of Ordinance No. 847) limit noise sources on any property from causing excessive exterior noise on any other nearby occupied property. The maximum decibel level standards depend on the receiving land use, such that sound levels in a low-density "Rural Community" shall not exceed 55 dBA Lmax during the daytime hours (7:00 a.m. to 10:00 p.m.) or 45 dBA Lmax during the nighttime hours (10:00 p.m. to 7:00 a.m.). These County standards protect the noise-sensitive receptors within the very low-density rural areas near the Project site.

Exceptions to the noise standards can be requested for construction-related reasons. Section 2 of Ordinance No. 847 specifies that the following construction activities are exempt from the provisions of the noise ordinance:

- Private construction projects located 0.25 mile or more from the nearest inhabited dwelling; and
- Private construction projects located within 0.25 mile of an inhabited dwelling provided that construction activities are limited to 6:00 a.m. to 6:00 p.m. during the months of June through September and are limited to 7:00 a.m. to 6:00 p.m. during the months of October through May.

The proposed Project would be consistent with these County policies.

3.13.3. Methodology for Analysis

Analysis of noise and vibration levels was performed through quantitative estimates of expected noise levels, review of agency policies and regulatory requirements, and qualitative analyses for issues that do not readily lend themselves to quantitative evaluation. Quantitative analyses were prepared to address noise and vibration from use of construction equipment on site, noise from construction-related traffic, and noise from facility operations.

The area of interest for noise and vibration issues is typically localized. Airborne noise dissipates fairly rapidly with increasing distance from the noise source. The distances involved depend primarily on the intensity of the noise generated by the source, and partly on weather conditions such as wind speed and direction, the height and strength of temperature inversions, and the height of cloud cover. Sound is detectable somewhat further downwind than upwind of a noise source. Temperature inversions and cloud cover can reflect or refract sound that is radiated upwards; this effect can increase noise levels at locations that receive the reflected or refracted sound. Such reflection and refraction effects are important primarily for high intensity sounds. For noise sources such as construction activity and vehicle traffic, although potentially audible over large distances, the region of greatest influence is typically less than 0.25 miles (1,320 feet) from the noise source (County Noise Ordinance No. 847).

Ground-borne vibrations similarly dissipate rapidly with increasing distance from the vibration source. The distances involved depend primarily on the intensity of the vibrations generated by the source, and partly on soil and geologic conditions. Detectable vibrations will travel the greatest distance through solid rock and the least distance through loose, unconsolidated soils or saturated soils. For vibration sources such as construction activity and vehicle traffic, the region of influence is typically less than 200 feet from the vibration source (Caltrans, 2020).

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3.13.4. CEQA Significance Criteria

The criteria used to determine the significance of potential noise and vibration impacts are based on Appendix G of the State CEQA Guidelines. The proposed Project would result in a significant impact under CEQA related to noise or vibration if the Project would result in:

- Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.
- Generation of excessive ground-borne vibration or ground-borne noise levels.

Neither Riverside County General Plan nor Noise Ordinance establish numeric maximum acceptable construction source noise levels at potentially affected receivers, which would allow for a quantified determination of what CEQA constitutes a substantial temporary noise increase. Therefore, the County identifies a numerical construction threshold based on the Federal Transit Administration (FTA), *Transit Noise and Vibration Impact Assessment Manual*, for this analysis of daytime and nighttime construction impacts. The FTA considers an exterior construction noise level of 80 dBA Leq as a reasonable daytime threshold for noise sensitive residential land use with a nighttime exterior construction noise level of 70 dBA Leq (FTA, 2018).

The following CEQA significance criterion from Appendix G was not included in the analysis and is not discussed further beyond this summary:

• For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

The Project site is not located within an airport land use plan. The Desert Center Airport is a private airstrip approximately one mile east of the nearest Project components. Because the proposed Project includes no noise-sensitive uses, no airport land use noise compatibility criteria would apply. None of the Project components could expose residential land uses to excessive noise levels due to a public airport or public use airport.

3.13.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to noise and vibration. Public concerns expressed during the scoping process involved noise from construction, especially due to the close proximity of the proposed development to homes in the LTDR and nearby communities, as well as noise from increased traffic. As part of the effort to address scoping comments and disclose noise and vibration impacts, this analysis includes quantification noise levels attributable to the Project and construction traffic.

Some scoping comments identified possible increases in noise due to loss of vegetation and concerns about a constant "loud buzzing sound" that comes from solar developments. This analysis identifies the types of sources associated with the proposed solar facility, BESS, medium voltage collector and gen-tie lines, including the electrical equipment typical to these types of facilities.

The scoping comments raise the possibility of the proposed Project causing land use change on a largeenough scale to alter the natural effect of ground absorption. The effect could occur by removing vegetation and installing structures that may reflect noise from distant sources, such as highways, the Desert Center Airport, or Chuckwalla Valley Raceway. New structures in the setting of open space could also counter this effect by acting as barriers that shield receptors from distant noise sources or reflect noise unpredictably. To address this comment, this analysis quantifies sound propagation from Project sources to receivers by assuming that all sound propagation occurs over "hard" surfaces, which conservatively ignores the effects of ground absorption where, in fact, natural vegetation or revegetated areas may provide some attenuation over distance.

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Applicant Proposed Measures

APM NOISE-1 Construction Timing. Applicant will avoid or minimize use of any impact hammer for pile driving or other equipment similarly capable of producing disruptive noise during construction activities within a one-mile radius from the residential parcel on the northeast corner of around the Lake Tamarisk Desert Resort community during the winter months of highest residency (November 1 to March 31). If based on the final construction schedule, use of such equipment is necessary within this geographic area during the aforementioned time period, the Applicant will avoid or minimize this construction activity prior to 7:00 a.m. and after 6:00 p.m. The Applicant will also avoid nighttime equipment deliveries between 10:00 p.m. and 7:00 a.m.

Impact N-1. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan, noise ordinance, or applicable standards of other agencies.

Less-THAN-SIGNIFICANT WITH MITIGATION, CONSTRUCTION OF THE SOLAR AND ENERGY STORAGE FACILITY. Increased ambient noise would occur during construction of the proposed Project. Heavy-duty construction equipment would be used on the site of the solar and energy storage facility and along the 500 kV gen-tie line, and trucks and vehicles would travel through the surrounding area for transporting equipment and materials to the site.

Construction of the Project is estimated to occur over an approximately 20 months. During these months, the range of construction activities would include pre-construction surveys, establishing staging areas and access points, mobilizing construction equipment, crews, and materials, installing the PV arrays and other electric facilities, and stabilizing and restoring disturbed areas. The types of construction equipment used on the Project site would include trucks, light-duty vehicles, backhoes, loaders, excavators or trenchers, forklifts, cranes, compactors, and drill rigs or augers.

Table 3.13-4 summarizes the typical noise levels for individual pieces of construction equipment.

Equipment	Noise Level at 50 ft (dBA Lmax)	Noise Level at 50 ft (dBA Leq)	
Mounted impact hammer (hoe ram)	90	83	
Scraper	84	80	
Dozer	82	78	
Forklift, man lift	75	68	
Crane	81	74	
Backhoe, loader	79	75	

Table 3.13-4. Typical Noise Levels for Individual Construction Equipment

Equipment	Noise Level at 50 ft (dBA Lmax)	Noise Level at 50 ft (dBA Leq)	
Excavator	81	77	
Compactor	83	76	
Generator	81	78	
Drill rig, auger	84	77	
Dump truck, haul truck, concrete mixer truck	76 to 79	73 to 76	
Pickup truck, crew truck	75	62 to 71	

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Source: FHWA, 2006.

Lmax: Maximum noise level from Actual Measured in Roadway Construction Noise Model (RCNM).

Leq: Equivalent noise level for 1 hour incorporating the Acoustical Usage Factor.

The activity likely to cause the highest noise levels at the site would be installation of steel piles for supporting the PV module structures. Steel piles (e.g., cylindrical pipes, H-beams, helical screws, or similar structures) would be driven into the soil using pneumatic techniques, such as a hydraulic rock hammer attachment on the boom of a rubber-tired backhoe excavator. The piles typically would be spaced 10 feet apart along the axis of the PV panel arrays. The hydraulic rock hammer would be light-duty to avoid excessive noise levels that could be associated with a heavy-duty impact pile driver. Maximum intermittent noise levels near steel pile installation activities be up to 90 dBA Lmax and 83 dBA Leq at 50 feet. For activities than pile installation, typical maximum intermittent noise levels near individual equipment would vary up to 84 dBA Lmax and 80 dBA Leq at 50 feet.

The noise levels caused by typical activities within the site would be substantially lower when experienced at locations distant from the site boundaries. Because sound fades over distance, on-site noise would diminish over the additional distances separating noise sensitive receptors from the proposed activities. Assuming the standard spherical spreading loss (reduction of 6 dB per doubling of distance) and the highest unmitigated construction noise source of 83 dBA Leq at 50 feet, the noise level caused by a typical spread of construction equipment would be 62 dBA Leq at the nearest occupied residences in the Lake Tamarisk community, 200 meters (656 feet) from the nearest proposed construction. This demonstrates that the nearest receiver locations would not be exposed to noise levels exceeding the reasonable daytime 80 dBA Leq or the nighttime 70 dBA Leq thresholds during construction activities. (Calculations appear in EIR Appendix K.)

With respect to construction-related traffic noise, development activities would also cause offsite noise, primarily due to trucks needed to deliver and remove materials and from the traffic of commuting workers. Haul trucks would make trips to bring equipment, water, and materials to the site and remove waste. Access to the site would be from SR-177 (Rice Road) and Kaiser Road.

The instantaneous peak noise levels from passing trucks and commuting worker vehicles would be approximately 70 to 76 dBA at 50 feet (see Table 3.13-4). This noise would be concentrated at staging areas, along access roads, and the thoroughfares used by Project traffic, primarily SR-177 and Kaiser Road. Along SR-177, the traffic from construction-related workers and haul trucks would increase SR-177 day-night noise levels by 3 dBA over the baseline levels, from 63 dBA to approximately 66 dBA Ldn within 100 feet of the centerline or from 64 dBA to 67 dBA CNEL.

The construction-related traffic noise impacts would occur primarily but not exclusively during daytime conditions. For evening or nighttime construction-related traffic, the effects on day-night noise levels would be more pronounced than traffic confined to daytime hours because of the increased sensitivity during the evening and nighttime hours (between 7:00 p.m. and 7:00 a.m.). The Project could conflict with Riverside County General Plan policies to minimize the impacts of construction noise, if Project construction traffic along SR-177 and Kaiser Road would cause day-night noise levels to substantially

increase during evening or nighttime hours. To reduce the impact of evening and nighttime construction traffic noise, this analysis recommends mitigation to restrict construction deliveries to daytime hours.

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The Riverside County Noise Ordinance allows noise from construction activities, and designates this noise as exempt, when: (a) the construction project is located one-quarter (0.25) mile or more from the nearest inhabited dwelling, or (b) when the construction project is located within 0.25 mile of an inhabited dwelling and the activities are limited to certain daytime hours. The closest occupied residences in Desert Center would be within 0.25 mile of Project construction traffic and on-site construction activities within the proposed Project site.

The Project construction work schedule would involve evening and nighttime activity, and all activities would use best efforts to avoid or minimize impact hammer use for pile driving or other equipment similarly capable of producing disruptive noise, as described in APM NOISE-1.

The Riverside County Noise Ordinance allows construction noise to be exempt between the hours of 7:00 a.m. and 6:00 p.m. The work schedules of the proposed Project would need to adhere to the County exemption for construction noise where activities are within 0.25 miles of a sensitive receptor to comply with the ordinance. The Noise Element of the General Plan includes no threshold noise levels (in terms of dBA) for temporary construction, but the County's policies require the Project to follow established hours of operation and to implement acceptable practices to minimize the effects of adverse construction noise.

Mitigation Measure (MM) N-1 (Construction Restrictions) is recommended to ensure that any construction activities within 0.25 miles of a sensitive receptor outside of the schedule of the Noise Ordinance would be limited to light-duty equipment and vehicles.

Mitigation Measures N-2 (Public Notification Process) and N-3 (Noise Complaint Process) are also recommended to ensure that residents nearest to the Project site boundaries and access roads are provided advance notification of potentially adverse noise conditions and to ensure that complaints are resolved. With the recommended mitigation measures, construction would not result in a substantial increase in noise levels in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies. With the recommended mitigation measures, the impact of construction noise relative to applicable community noise standards would be less than significant.

In addition, the Applicant has stated in APM NOISE-1 that it will avoid or minimize use of any impact hammer for pile driving or other equipment similarly capable of producing disruptive noise during construction activities within a one-mile radius from the residential parcel on the northeast corner of the Lake Tamarisk Desert Resort community during the winter months of highest residency (November 1 to March 31). If based on the final construction schedule, use of such equipment is necessary within this geographic area during the aforementioned time period, the Applicant will avoid or minimize this construction activity in the early morning or late evening. Implementation of APM NOISE-1 will further reduce this less-thansignificant impact.

Less-THAN-SIGNIFICANT WITH MITIGATION, CONSTRUCTION OF THE 500 KV GEN-TIE LINE. Construction of the 500 kV gen-tie structures and installation of poles and conductors would involve a line truck, water truck, crane, backhoe, excavator, and helicopters. Gen-tie construction noise would result in a readily perceptible, but temporary, increase in daytime environmental noise. Gen-tie construction activities would only intermittently affect any one location as the construction crews move along the alignment.

Near each pole site, the equipment in the gen-tie construction spread and overhead helicopter operations would generate increase ambient noise during use of offroad equipment and during helicopter overflights, takeoffs, and landings. Helicopter operations could be expected to generate noise levels of approximately 92 dBA within about 100 feet to 450 feet of the source depending on payload capacity of the helicopter, and locations a few hundred feet from the source would experience less than 90 dBA (U.S. Forest Service,

2023). Using a helicopter for 15 minutes in a typical hour would result in approximately 83 dBA Leq at 200 meters (656 feet). (Calculations appear in EIR Appendix K.)

Gen-tie construction noise would occur along an alignment that is not within 0.25 mile of any inhabited dwellings. However, helicopter operations could conflict with Riverside County General Plan policies to minimize the impacts of construction noise if not limited to occur during daytime hours. Mitigation Measure N-1 (Construction Restrictions) would ensure that construction activities outside of the schedule of the Noise Ordinance would be limited to light-duty equipment and vehicles, and Mitigation Measures N-2 (Public Notification Process) and N-3 (Noise Complaint Process) would also ensure that nearby residents are provided advance notification of potentially adverse noise conditions and to ensure that complaints are resolved. For construction of the gen-tie, this impact with mitigation would be less than significant.

Less-THAN-SIGNIFICANT IMPACT, OPERATIONS AND MAINTENANCE. Operations-related activities that could cause minor levels of noise in the areas of the proposed Project include upkeep, maintenance, inspections, vegetation management, solar module washing, fire safety, and site security. The proposed Project would also include stationary sources of noise in the form of PV panel tracking system motors, the inverter-transformer stations that operate when the solar panels produce electricity in the daytime, BESS, and the 500 kV gen-tie line.

Throughout the solar field, the equipment that could generate the most prominent stationary source noise would be the pad-mounted inverter-transformer stations. The off-site noise levels produced by the individual inverters and transformers would depend on the final equipment selected and the ultimate locations of the individual inverter stations. The inverter-transformer stations would be centrally located within each 2 to 5 MW increment of generation. Auxiliary equipment for inverter-transformer stations may include cooling fans and pumps that operate depending on the internal temperature of the transformer cooling oil. This type of noise would have a broad-band spectrum and would not include simple tones or a "hum." The typical performance specification of a commercial or utility-scale inverter with cooling system and enclosure would be to achieve a design standard of 67 dBA at a distance of 32.8 feet (10 meters). With multiple units on each skid to achieve up to a 5,000 kilowatt output, the resulting noise level would be approximately 71 dBA at 50 feet and 45 dBA Leq at 1,000 feet from each inverter-transformer pad. (Calculations appear in EIR Appendix K.)

Within the solar field, other minor sources include tracker motors and mechanisms that allow the solar panels to tilt and track the path of the sun on a single axis throughout the day. Tracker motors and actuators would not operate on a continuous basis or in unison. For example, each set of actuators would operate for a few seconds and then pause for 5 minutes before operating again. This process would occur only during daylight hours, with a return to the starting position at sunrise. Although final design would determine the actual specifications for the motors, based on similar projects, noise from each motor and actuator would be about 62 or 63 dBA at the source or a distance of 3.28 feet (1 meter). Noise levels from the tracker motors throughout the solar field would not be discernable in the background conditions at any locations over 200 feet from the edges of the solar field.

The dominant stationary sources of noise near the proposed operation and maintenance (O&M) building would be related to the heating, ventilation, and air conditioning units (HVAC), if necessary for the O&M building and the BESS enclosures. The transformers and switchgear to within the onsite substation yards would also include cooling fans and pumps. Typical cooling systems for the BESS and transformers could generate 75 dBA at a distance of 32.8 feet (10 meters), which would result in 44 dBA Leq at 1,200 feet from the BESS equipment. (Calculations appear in EIR Appendix K.)

The proposed Project would also introduce the permanent stationary source of noise from the audible corona noise that occurs with normal and routine operation of the 500 kV gen-tie. Corona noise would occur along the alignments of the proposed gen-tie lines, and the typical resulting noise level near each

gen-tie line with wet conductors would about 45 dBA Leq at the edge of the right-of-way. The noise from the gen-tie would not cause a substantial permanent increase in ambient day-night noise levels and would be less than the most-stringent property line standards in the Noise Ordinance. Therefore, for operation of the gen-tie, this impact would be less than significant.

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The proposed Project would be operated by up to 10 permanent staff on the site at any one time. Occasional vehicular noise would also be caused by crews for ongoing facility maintenance and repairs and for module washing and security patrols. These activities would normally involve only a small crew, and the Project-related O&M traffic would be sporadic.

The applicable standards in the Noise Ordinance (Chapter 9.52.040 and Section 4 of Ordinance No. 847) limits noise sources from causing excessive exterior noise on any nearby occupied property. The Noise Ordinance ensures that noise levels at any receiving land use that is a low-density "Rural Community" shall not exceed 55 dBA Lmax during the daytime hours (7:00 a.m. to 10:00 p.m.) or 45 dBA during the nighttime hours (10:00 p.m. to 7:00 a.m.). The stationary source noise standards set forth in the Noise Element, Policy N 2.3 and Policy N 4.1, of the General Plan are less stringent than those in the Noise Ordinance. All equipment within the Project site would be required to comply with the stationary source noise standards of the Noise Ordinance.

The solar generating facility would be primarily active and operational during daytime hours. However, the pad-mounted inverters-transformer stations' cooling systems and the battery storage equipment could operate outside of daylight hours. The overall noise levels caused by these units would be subject to the 45 dBA Lmax standard of the Noise Ordinance that applies at the boundary of any nearby occupied property. The proposed O&M building, BESS enclosures, and onsite substations would not be located within 1,200 feet of any occupied properties or residences and would not cause exterior noise of more than 45 dBA at any residential property boundary. As such, the noise from operation of the proposed Project would not exceed the Noise Ordinance standard of 45 dBA at night for any occupied "rural community" location. Likewise, the proposed Project operational noise levels of 44 dBA Leq at 1,200 feet from the BESS equipment would not exceed the General Plan Noise Element standard for stationary sources of 45 dBA Leq during the nighttime hours (10:00 p.m. to 7:00 a.m.). The impact of operation noise relative to applicable community noise standards would be less than significant.

Less-THAN-SIGNIFICANT IMPACT, DECOMMISSIONING. Decommissioning impacts would likely be similar to those that would occur during construction. The actual impacts would depend on the proposed decommissioning action and final use of the site.

Mitigation Measures for Impact N-1

- MM N-1 Construction Restrictions. See full text in Section 3.13.9 (Mitigation Measures).
- MM N-2 Public Notification Process. See full text in Section 3.13.9 (Mitigation Measures).
- MM N-3 Noise Complaint Process. See full text in Section 3.13.9 (Mitigation Measures).

Significance After Mitigation

The increased noise levels that would occur with the proposed Project construction activities would be adverse after mitigation but not at significant levels. This impact would be less than significant during operation.

Impact N-2. Generation of excessive ground-borne vibration or ground-borne noise levels?

Less-THAN-SIGNIFICANT IMPACT, CONSTRUCTION. Vibration from routine construction equipment and activities might be perceptible to people in the immediate vicinity of construction activities. Vibration sources that typically occur with construction activity or vehicle traffic have a region of influence that is limited to approximately 200 feet. During construction, the impact or vibratory pile drivers used for installing posts would have the greatest radius of potential ground-borne vibration impacts.

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The level of ground-borne vibration that could reach sensitive receptors depends on the distance to the receptor, the equipment type that is creating vibration (e.g., the frequency being produced), and the soil conditions surrounding the construction site. Because the use of construction equipment generating ground-borne vibrations would be localized around Project components, and construction activity would be set back substantially from property boundaries, no vibration sensitive structures or land uses would be near construction equipment or sources of vibration. The nearest home in Lake Tamarisk on Shasta Drive would be approximately 0.05 miles (260 feet) from the boundaries of the Easley Project. <u>Project construction activity would be set back substantially, at least 200 meters (656 feet), from this residential land use.</u>

When necessary to install posts near the proposed Project site boundaries, use of pile drivers could result in vibration that would be perceptible and potentially annoying within 100 feet of the source. The typical level of ground-borne vibration from an impact pile driver could exceed 0.6 in/sec PPV near the source, but at a distance of 100 feet the level would attenuate to below 0.1 in/sec, which is below the County threshold level that would be annoying to occupants of a building (0.1968 in/sec). Other construction activities would create lower levels of vibration and would not have the potential to create annoyance at distances of 50 feet or more from the equipment in use. (Calculations appear in EIR Appendix K.)

Because offsite vibration levels would be low enough to avoid causing an annoyance, they would be unlikely to cause structural damage. Impacts from vibration would be localized and temporary (i.e., infrequently recurring at any single location), and therefore, would not be excessive, resulting in a less than significant impact.

Less-THAN-SIGNIFICANT IMPACT, OPERATIONS AND MAINTENANCE. Operation of the proposed solar facility, BESS, and gen-tie would not generate perceptible levels of vibration in the surrounding area. There would be no permanent source or potential to change vibration levels, except during circumstances where Project components require unscheduled maintenance or repair activities, during which the impact would be <u>brief but of similar intensity</u> to that of construction. Because Project activities and facilities would not expose people to excessive ground-borne vibration, this impact would be less than significant.

Less-THAN-SIGNIFICANT IMPACT, DECOMMISSIONING. Decommissioning impacts would likely be similar to those that would occur during construction. The actual impacts would depend on the proposed decommissioning action and final use of the site.

Mitigation Measures for Impact N-2

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

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*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***
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3.13.6. Cumulative Impacts

Geographic Scope

The geographic scope for cumulative analysis of noise and vibration is generally localized. Noise sources attributable to cumulative projects may cause adverse effects within approximately one mile of a project site including truck routes, but the region of greatest influence is typically within 0.5 miles from the boundary of a project site. Similarly, vibration sources that typically occur with construction activity or vehicle traffic have a region of influence that is limited to approximately 200 feet.

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This geographic scope for cumulative noise and vibration effects includes the West-wide Section 368 Energy Corridors and the development activities of existing, past, present, and reasonably foreseeable future projects in the Desert Center area, as described in Section 3.1.2.

Cumulative Impact Analysis

The cumulative projects that occur in the geographic scope for noise and vibration include planning documents and the <u>existing and probable</u> future solar energy projects that are similar in nature to the proposed Project. The planning efforts, proposed expansion of Joshua Tree National Park, and creation of Chuckwalla National Monument would not themselves create actions that increase noise or vibration levels. The noise and vibration effects of the equipment used for construction of other present and future cumulative projects would depend on the site-specific needs and schedules, and the impacts may or may not overlap spatially and temporally with those of the proposed Project.

Limited areas of cumulative project construction activities could be within 0.5 mile of the proposed Project. Simultaneous construction activity would have the potential to cause overlapping construction noise impacts with construction of the proposed Project. Active pieces of construction equipment normally cause no more than 85 dBA when measured 50 feet from the source. Construction-phase noise impacts would be short-term and limited in nature, with construction activities for all cumulative projects normally being limited to the daytime. Simultaneous cumulative project construction activity would have the potential to cause overlapping construction noise impacts with construction of the proposed Project. The potential for overlap depends on the distance and timing of the future projects. The boundaries of the cumulative project nearest to the existing residences are those for the Sapphire Solar Project, which would be over one mile from the existing residences at Lake Tamarisk Desert Resort. At this distance, active construction equipment generating noise within the Sapphire Solar Project site could contribute about 42 dBA at the residences. When compared with the construction effects of the proposed Project, which could cause 62 dBA Leg at the residences, the cumulative project construction noise would not substantially influence the localized noise levels experienced by nearby residences including Lake Tamarisk Desert Resort. (Calculations appear in EIR Appendix K.) Because substantial distances separate residences from the proposed Project and probable future projects, construction noise from the Sapphire Solar Project and other cumulative projects would attenuate to imperceptible levels prior to reaching residences and therefore would not be expected to combine with project construction noise in a way that would increase noise levels experienced by sensitive receptors.

The noise impact of cumulative project operations could also occur simultaneously with proposed Project construction, although no cumulative project operation noise would be likely to occur at a location that substantially influences the localized noise levels experienced by residences nearest to the proposed Project permanent noise sources. This is because the only cumulative projects with the reasonable potential to combine noise impacts with the Project are the Sapphire Solar Project, Oberon Solar Project, and Athos Solar Project. As described above, the Sapphire Solar Project would be located over one mile away from Lake Tamarisk Desert Resort. Distances of 0.5 miles or more separate Lake Tamarisk Desert Resort from ₋the nearest noise-producing facilities for the Oberon project, and over one mile separates

Lake Tamarisk Desert Resort from the Athos project. At these distances, operational noise from these cumulative projects would be comparable to the noise from proposed Project operation, but at a greater distance. The cumulative project noise would attenuate to the point of being imperceptible for existing residences. As a result, operational noise from these projects would not be expected to combine with Project construction noise in a way that would cause significant cumulative noise impacts.

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For the reasons described above and given that the nearest sensitive receptor would be at least 200 meters (656 feet) from proposed Project construction activities and at much greater distances from cumulative projects, cumulative noise impacts during Project construction would not be significant. Mitigation Measures MM N-1 through N-3 would minimize the Project's contribution to these already less-than-significant cumulative construction noise impacts.

The duration of construction work for the proposed Project would be approximately 20 months, and after that time, few notable permanent sources of noise would occur with the proposed solar facility, BESS, and gen-tie, and <u>similarly, few noise sources occur with the cumulative projects</u>.

All cumulative project operations would generate noise from employee vehicles accessing the sites, and solar energy projects include power inverters and other power system infrastructure that are minor sources of noise. These sources may cause localized cumulative effects where multiple projects or shared transportation routes occur adjacent to a sensitive receptor. <u>However, as described above, cumulative projects with the potential to combine noise impacts with the project are located such that operational noise they generate would be expected to attenuate to the point of being imperceptible for existing residences. As a result, operational noise from these projects would not be expected to combine with proposed Project operations noise in a way that would cause significant cumulative noise impacts.</u>

As described above, c^Cumulative noise impacts would<u>not be significant. These less-than-significant impacts would be further-be</u> reduced through compliance with local laws and regulations and implementation of typical mitigation to protect sensitive receptors from noise and implement feasible noise controls. Cumulative renewable energy projects and other development that is subjected to the environmental permitting process would have a detailed analysis of noise and land use conflicts as part of the project-level environmental review. The permitting process normally requires each project to comply with local standards and to avoid noise-related land use conflicts. This means that all projects, even if unrelated to the proposed Project, would need to comply with the local community noise standards, such as the Riverside County Noise Ordinance. Additional mitigation may be applied to the cumulative projects through environmental permitting by lead agencies. Although sources of noise associated with cumulative project operations, including employee vehicles accessing the sites, power inverters, and other power system infrastructure could impact residences that are near the proposed Project, the mitigation recommended in this analysis would ensure that the Project's incremental contribution to the cumulative noise impact would not be considerable.

Cumulative effects due to ground-borne vibration would occur only if there were sources of the vibration within approximately 200 feet from the boundaries between the proposed Project site and cumulative project sites. Boundaries of cumulative projects occur within 200 feet of the proposed Project site, but these shared boundaries are not within 200 feet of existing residences. <u>As a result, Tthe areas of potential overlap of cumulative project construction-related vibration would not be likely to create a cumulative vibration impact at residences near the proposed Project, and no cumulative effects would be likely from ground-borne vibration.</u>

Mitigation Measures for Cumulative Impacts

Mitigation Measures MM N-1 to MM N-3 would <u>reduce the Project's contribution to the already less-</u> <u>than-significant cumulative noise and vibration impacts</u>. be implemented to address potential noise and <u>vibration impacts</u> for the proposed Project. No additional mitigation is required.

Significance After Mitigation

<u>Cumulative noise and vibration impacts would be less than significant.</u> The Project's incremental contribution to noise and vibration impacts would not be cumulatively considerable.

3.13.7. Mitigation Measures and Applicant Proposed Measures

- **APM NOISE-1 Construction Timing.** Applicant will avoid or minimize use of any impact hammer for pile driving or other equipment similarly capable of producing disruptive noise during construction activities within a one-mile radius from the residential parcel on the northeast corner of around the Lake Tamarisk Desert Resort community during the winter months of highest residency (November 1 to March 31). If based on the final construction schedule, use of such equipment is necessary within this geographic area during the aforementioned time period, the Applicant will avoid or minimize this construction activity prior to 7:00 a.m. and after 6:00 p.m. The Applicant will also avoid nighttime equipment deliveries between 10:00 p.m. and 7:00 a.m.
- MM N-1 Construction Restrictions. Heavy equipment operation, noisy construction work relating to any Project features onsite, and truck trips associated with materials and equipment deliveries shall be restricted to the times delineated below, unless a special permit has been issued by the County of Riverside: during June through September, between 6 a.m. to 6 p.m.; and during October through May, between 7:00 a.m. to 6:00 p.m.

Haul truck engines and other engines powering fixed or mobile construction equipment shall be equipped with adequate mufflers. Haul trucks shall be operated in accordance with posted speed limits. Truck engine exhaust brake use shall be limited to emergencies.

The construction contractor shall locate equipment staging in areas to create the greatest distance between construction-related noise sources and noise sensitive receivers nearest the Project site during Project construction. Where feasible, the construction contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the Project site. No music or electronically reinforced speech from construction workers shall be audible at noise-sensitive properties.

- **MM N-2 Public Notification Process.** At least 15 days prior to the start of ground disturbance, the Project owner shall notify all residents within one mile of the Project site and the linear facilities, by mail or by other effective means, of the commencement of Project construction. At the same time, the Project owner shall establish a telephone number for use by the public to report any undesirable noise conditions associated with the construction and operation of the Project. If the telephone is not staffed 24 hours a day, the Project owner shall include an automatic answering feature, with date and time stamp recording, to answer calls when the phone is unattended. This telephone number shall be posted at the Project site during construction where it is visible to passersby. This telephone number shall be maintained until the Project has been operational for at least one year.
- **MM N-3 Noise Complaint Process.** Throughout the construction and operation of the Project, the Project owner shall document, investigate, evaluate, and attempt to resolve all Project-related noise complaints. The Project owner or authorized agent shall:
 - (a) Use a Noise Complaint Resolution Form, or other documentation procedure acceptable to the County, to record and report the Project owner's response to resolving each noise complaint;
 - (b) Attempt to contact the person(s) making the noise complaint within 24 hours;

- (c) Conduct an investigation to determine the source of noise in the complaint;
- (d) If the noise is Project-related, take all feasible measures to reduce the source of the noise; and
- (e) Submit a report to the County documenting the complaint and actions taken. The report shall include: a complaint summary, including the final results of noise reduction efforts and, if obtainable, a signed statement by the complainant stating that the noise problem has been resolved to the complainant's satisfaction.

3.14. Paleontological Resources

This section describes the existing local geology and paleontological resources, the regulatory framework for paleontological resources, and the possibility of discovery of paleontological resources within the area where the proposed Project and alternatives would be implemented. An impact analysis and comparison of project alternatives is included in Section 5.

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The Project area relevant to the analysis of paleontological resources is the physical footprint of Project construction, operation and maintenance, and decommissioning activities. Paleontological resources are any fossilized remains, traces, or imprints of organisms that are preserved in the Earth's crust and are of paleontological interest and provide information about the history of life on Earth. Fossil remains may include bones, teeth, shells, leaves, and wood. They are found in geological deposits within which they were originally buried. Paleontological resources include not only the actual fossils, but also the collecting localities and the geological deposits that contain the fossils. Paleontological resources are considered nonrenewable resources because the organisms they represent no longer exist. Thus, once destroyed, these resources can never be replaced. The information in this section is based on the *Paleontological Resource Survey Report for the Easley Renewable Energy Project*, Riverside County, California, prepared by PaleoWest (2023) (Paleontological Report; EIR Appendix E).

3.14.1. Environmental Setting

3.14.1.1. Paleontological Resource Classifications

BLM Instruction Memorandum IM 2009 011 provides guidelines for assessment and mitigation of potential impacts to paleontological resources (BLM, 2008). The Memorandum defines a significant paleontological resource as:

Any paleontological resource that is considered to be of scientific interest, including most vertebrate fossil remains and traces, and certain rare or unusual invertebrate and plant fossils. A significant paleontological resource is considered to be scientifically important because it is a rare or previously unknown species, it is of high quality and well-preserved, it preserves a previously unknown anatomical or other characteristic, provides new information about the history of life on earth, or has identified educational or recreational value. Paleontological resources that may be considered to not have paleontological significance include those that lack provenience or context, lack physical integrity because of decay or natural erosion, or that are overly redundant or are otherwise not useful for research. Vertebrate fossil remains and traces include bone, scales, scutes, skin impressions, burrows, tracks, tail drag marks, vertebrate coprolites (feces), gastroliths (stomach stones), or other physical evidence of past vertebrate life or activities.

Due to the nature of the fossil record, paleontologists cannot know either the quality or the quantity of fossils present in a geologic unit prior to natural erosion or human-caused exposure. Therefore, in the absence of surface fossils, it is necessary to assess the sensitivity of rock units based on their known potential to produce scientifically significant fossils elsewhere within the same geologic unit (both within and outside of the study area) or a unit representative of the same depositional environment. The proposed Project is on both BLM-administered and private land with the largest portion on BLM-administered land; therefore, it follows the Potential Fossil Yield Classification (PFYC) system for assessing paleontological resources. The PFYC system provides baseline guidance for assessing paleontological resources and (BLM, 2016).

Potential Fossil Yield Classification (PFYC)

The PFYC system is based on mapped geologic units which are assigned a paleontological sensitivity class based on the relative abundance and significance of paleontological resources and their sensitivity to adverse impacts. Initial PFYC assignments based only on geologic mapping are considered as only a first approximation of the potential presence of paleontological resources and are subject to changes based on ground verification. The PFYC class rankings are summarized below (BLM, 2016):

Class 1 – Very Low. Geologic units that are not likely to contain recognizable fossil remains. This class usually includes units that are igneous or metamorphic, excluding reworked volcanic ash units; or units that are Precambrian in age or older. Management concern for paleontological resources in Class 1 units is usually negligible or not applicable. Overall, the probability of impacting significant paleontological resources is very low and further assessment of paleontological resources is usually unnecessary.

Class 2 – Low. Geologic units that are not likely to contain palaeontologic resources. Class 2 geologic units have the following characteristics: field surveys have verified that palaeontologic resources not present or are very rare; geologic units are generally younger than 10,000 years before present (bp); and sediments that exhibit significant physical and chemical changes (i.e., diagenetic alteration) that make fossil preservation unlikely. Management concern for paleontological resources is generally low and further assessment or mitigation is usually unnecessary except in rare or isolated circumstances where localities containing paleontological resources are found.

Class 3 – Moderate (a) or Unknown (b). Sedimentary geologic units where fossil content varies in significance, abundance, and predictable occurrence. This class is often marine in origin with sporadic known occurrences of paleontological resources. Paleontological resources may occur intermittently, but abundance is known to be low. Significant paleontological resources may occur but would be widely scattered. The potential for authorized land use to impact significant paleontological resources is known to be low to moderate. Management concerns for paleontological resources are moderate. Management options could include record searches, pre-disturbance surveys, monitoring, mitigation, or avoidance. Surface-disturbing activities may require sufficient assessment to determine whether significant paleontological resources occur in the area of a proposed action and whether the action could affect the paleontological resources.

Class 4 – High. Geologic units that are known to contain a high occurrence of paleontological resources. Significant paleontological resources have been documented but may vary in occurrence and predictability. Surface disturbing activities may adversely affect paleontological resources. Rare or uncommon fossils, including nonvertebrate (such as soft body preservation) or unusual plant fossils, may be present. Illegal collecting activities may impact some areas. Management concern is moderate to high depending on the proposed action. A field survey by a qualified paleontologist is often needed to assess local conditions. On-site monitoring or spot checking may be necessary during land-disturbing activities. Avoidance of known paleontological resources may be necessary.

Class 5 – Very High. Highly fossiliferous geologic units that consistently and predictably produce significant paleontological resources. Significant paleontological resources have been documented and occur consistently. Paleontological resources are highly susceptible to adverse impacts from surface-disturbing activities. Unit is frequently the focus of illegal collecting activities. Management concern is high to very high. A field survey by a qualified paleontologist is almost always needed, and on-site monitoring may be necessary during land-use activities. Avoidance or resource preservation through controlled access, designation of areas of avoidance, or special management designations should be considered.

Class U – Unknown Potential. Geologic units that cannot receive an informed PFYC assignment. Geological units may exhibit features or preservational conditions that suggest significant paleontological resources could be present, but little information about the actual paleontological resources of the unit

or area is known. Geologic units represented on a map are based on lithologic character or basis of origin but have not been studied in detail. Scientific literature does not exist or does not reveal the nature of paleontological resources. Reports of paleontological resources are anecdotal or have not been verified. Area or geologic unit is poorly or understudied. BLM staff has not yet been able to assess the nature of the geologic unit. Until a provisional assignment is made, geologic units that have an unknown potential have medium to high management concerns, and lacking other information, field surveys are normally necessary, especially prior to authorizing a ground-disturbing activity.

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Society of Vertebrate Paleontology Criteria

The Society of Vertebrate Paleontology (SVP) has developed standard procedures for the assessment and mitigation of adverse impacts to paleontological resources which are intended to be applicable to both private and public lands under the jurisdiction of local, city, county, regional, state, and federal agencies SVP, 2010). Under the SVP criteria rock units are described as having (a) high, (b) undetermined, (c) low, or (d) no potential for containing significant paleontological resources (SVP, 2010).

The Project is located on both BLM-administered land and private land; however, much more of the proposed Project is located on BLM-administered land and therefore will use the BLM PYFC system for paleontological resource assessment. SVP has also established professional guidelines for paleontologists and provided definitions of significant paleontological resources (SVP, 2010). The SVP defines significant paleontological resources as consisting of identifiable vertebrate fossils, large or small, uncommon invertebrate, plant, and trace fossils, and other data that provide taphonomic, taxonomic, phylogenetic, paleoecologic, stratigraphic, and/or biochronologic information. Paleontological resources are considered to be older than recorded human history and/or older than middle Holocene (i.e., older than about 5,000 radiocarbon years).

Riverside County Criteria

Riverside County has been inventoried for geologic formations known to potentially contain paleontological resources. Lands with high, low, or undetermined potential for finding paleontological resources have been mapped in the County (Riverside County, 2015: Figure OS-8). Based on Riverside County Figure OS-8, the Project is underlain by areas mapped as unknown, low, and high (Ha) sensitivity (Riverside County, 2015). It should be noted that the map does not substitute for site-specific investigations, as deemed necessary.

High Potential. Sedimentary rock units with high potential for containing significant non-renewable paleontological resources include rock units in which vertebrate or significant invertebrate fossils have been found or determined likely to be present. These units include, but are not limited to, sedimentary formations which contain significant non-renewable paleontological resources anywhere within their geographical extent and sedimentary rock units temporally or lithologically suitable for the preservation of fossils. High sensitivity includes not only the potential for yielding abundant vertebrate fossils, but also for production of a few significant fossils that may provide new and significant data. High sensitivity areas are mapped as either "High A" or "High B," according to the following criteria:

- High Sensitivity A (Ha): Based on geologic formations or mapped rock units that are known to contain or have the correct age and depositional conditions to contain significant paleontological resources. These include rocks of Silurian or Devonian age and younger that have potential to contain remains of fossil fish, and Mesozoic and Cenozoic rocks that contain fossilized body elements and trace fossils such as tracks, nests, and eggs.
- High Sensitivity B (Hb): Equivalent to High A but is based on the occurrence of fossils at a specified depth below the surface. This category indicates fossils that are likely to be encountered at or below 4 feet of depth and may be impacted during construction activities.

Low Potential. Lands for which previous field surveys and documentation demonstrate as having a low potential for containing significant paleontological resources subject to adverse impacts. The mapping of low potential was determined based on actual documentation and was not generalized to cover all areas of a particular rock unit on a geologic map.

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Undetermined Potential. Areas underlain by sedimentary rocks for which literature or unpublished studies are not available have undetermined potential for containing significant paleontological resources. These areas need to be inspected by a qualified vertebrate paleontologist before a specific determination of high potential or low potential can be assigned.

3.14.1.2. Literature Review and Records Search

Paleontological resources are not found in "soil" but are contained within the geologic deposits or bedrock that underlies the soil layer. Therefore, in order to ascertain whether a particular study area has the potential to contain significant fossil resources at the subsurface, it is necessary to review relevant scientific literature and geologic mapping to determine the geology and stratigraphy of the area. Further, to delineate the boundaries of an area of paleontological sensitivity, it is necessary to determine the extent of the entire geologic unit because paleontological sensitivity is not limited to surface exposures of fossil material.

PaleoWest conducted a review of published geologic and paleontological literature and searches of pertinent local and regional museum repositories for paleontological localities at the Natural History Museum of Los Angeles County (NHMLAC), San Bernardino County Museum (SBCM), San Diego Natural History Museum (SDNHM), and Western Science Center (WSC) (PaleoWest, 2023).

The geologic literature review revealed that The Geologic Map of California – Salton Sea Sheet (Jennings, 1967) is the only published geological map covering the entire Project area; this is a regional scale map at a 1:250,000 scale and therefore less detailed than a larger scale, project area focused map. The Salton Sea Sheet identifies the Project site as primarily underlain by Quaternary alluvium (Qal), with approximately 30 acres of Quaternary nonmarine conglomerate (Qc, Qco) along the proposed gen-tie route. The Quaternary alluvial deposits of Chuckwalla Valley (Qal) are composed of late Pleistocene (2.6 million years ago to 11,700 years ago) to Holocene (11,700 years ago to present) terrestrial valley axis fill and valley margin deposits. The Quaternary alluvial deposits are widespread and are laterally and vertically variable with respect to lithology, grain size, and depositional environment. The nonmarine alluvial fan conglomerates (Qc and Qco) are described by Jennings (1967) as a coarse cobble conglomerate deposit derived from alluvial fans (PaleoWest, 2023). Recent excavations in the Chuckwalla Valley indicate that fine-grained Pleistocene playa deposits may underlie Quaternary alluvial fan valley axis deposits at shallow depth (PaleoWest, 2023).

The museum locality records searches from the NHMLAC, SDMHN, and the WSC did not identify any previously recorded vertebrate localities within the Project boundaries; however, the museums did identify several nearby localities from within similar Quaternary sedimentary deposits (PaleoWest, 2023). The nearby localities in the Chuckwalla Valley produced Quaternary vertebrate fossils of kangaroo rat, pocket mouse, rattlesnake, and horned lizard from Ford Dry Lake; horse, camel, bison, and muskox tribe from near the Eagle Mountains and Coxcomb Mountains; and catfish, desert tortoise, gopher snake, horned lizard, desert iguana, finch, grebe, saber-toothed cat, bighorn sheep, mule deer, kit fox, camel, llama, rabbit, gopher, kangaroo rat, ground squirrel, harvest mouse, and pocket mouse from the Desert Harvest and Desert Sunlight solar projects (PaleoWest, 2023). The SBCM did not have record of fossil localities in the Project area or within a 5-mile buffer.

3.14.1.3. Field Survey

A pedestrian survey was conducted for the Project between April 3–6 and April 10–13, 2023, by a PaleoWest BLM-permitted Paleontological Field Director with assistance from PaleoWest Staff Paleontologists. The purpose of the field survey was to inspect the ground surface visually for exposed fossils, evaluate geologic exposures for their potential to contain buried fossils, and assist in determining where additional paleontological mitigation may be necessary prior to or during Project development. The survey was conducted for the entire Project site and along the gen-tie route, covering approximately 3,867 acres, using evenly spaced, 10–30-meter (m) parallel transects. Project areas obscured by heavy vegetation, agricultural mulch, or developed roads were not comprehensively examined because of lack of visibility of the underlying geological unit.

Based on the field survey, the Project area is underlain by moderately consolidated, light brown to light tan Quaternary alluvium consisting predominantly of clay, silt, and coarse-grained sand with both remnant and active alluvial surfaces, which include periodically inundated wash channels. The. Field observations of the Quaternary nonmarine conglomerate unit (Qc, Qco), observed locally along the proposed gen-tie route, indicate the unit is likely not a true conglomerate but rather a developing desert pavement surface composed of coarse angular metamorphic and igneous clasts on top of a finer-grained alluvial fan deposit (PaleoWest, 2023).

A total of 31 paleontological localities were identified on the surface of the Project area during fieldwork. Four significant vertebrate fossils were documented and collected for curation at the WSC during the paleontological survey of the Project area. The significant fossils include specimens of rabbit and turtle. Also, 27 nonsignificant fossils were observed during the paleontological field survey. The nonsignificant fossils were poorly preserved unidentifiable vertebrate bone and ubiquitous turtle shell; therefore, they were documented but not collected. All of the identified localities were found within the Quaternary alluvium (Qal) geologic unit (PaleoWest, 2023).

The occurrence of fossil remains in the Project area from rabbits/hares (Lepus, Leporidae) and tortoises (Testudinidae) is expected for the Desert Center area as both are endemic taxa, and their tendency to burrow underground would increase their chances of preservation should they die in their dens. Remains of these taxa are common in Pleistocene deposits in the Mojave Desert, though remains of Lepus are rare north of Interstate 10 (PaleoWest, 2023). The presence of burrowing as an agent of preservation suggests more fossils may be preserved in the subsurface of the Project area and may be encountered during ground-disturbing activities.

3.14.1.4. Paleontological Sensitivity

Fieldwork results confirmed surface fossils are present in the Project area. All visible surface fossils were identified during the field survey and the significant fossils were collected and curated. Additional surface or near-surface fossils may be exposed by ongoing eolian and alluvial processes that rework or remove thin layers of sediment that may obscure fossils (PaleoWest, 2023). The Quaternary alluvium throughout the Project area has proven conducive to the preservation of vertebrate remains and may contain an unknown number of buried fossil resources in the subsurface, particularly if fine-grained playa deposits are encountered at depth. As such, PaleoWest recommended the paleontological resource potential for Quaternary alluvium be assigned **PFYC 4 (High).** The Quaternary nonmarine conglomerates (Qc, Qco of Jennings [1967]) have not produced any fossil resources in the Project area or vicinity; however, field observations indicate Quaternary nonmarine conglomerate (Qc, Qco) in the Project area is likely not a true conglomerate but rather a developing desert pavement surface on top of an alluvial fan deposit. The Quaternary deposits beneath the desert pavement are of an appropriate age to preserve fossil resources and similar lithologies have been known to yield significant paleontological resources elsewhere in the

Chuckwalla Valley (PaleoWest, 2023). PaleoWest recommended the areas mapped as Quaternary nonmarine conglomerates be assigned **PFYC 3a (Moderate).**

3.14.2. Regulatory Framework

3.14.2.1. Federal Laws, Regulations, and Policies

Paleontological Resources Preservation Act (PRPA) of 2009. The PRP was part of the Omnibus Public Lands Management Act (OPLMA) of 2009. The PRPA requires the Secretary of the Interior to manage and protect paleontological resources on federal land using scientific principles and expertise and requires federal agencies to develop appropriate plans for inventorying, monitoring, and the scientific and educational use of paleontological resources, in accordance with applicable laws, regulations, and policies. Where possible, these plans should emphasize interagency coordination and collaborative efforts with non-federal partners, the scientific community, and the general public. The PRPA is the authority for federal land managing agencies for permits to collect paleontological resources, as well as curation of these resources in an approved repository. It provides authority for the protection of significant paleontological resources on federal lands including criminal and civil penalties for fossil theft and vandalism.

The PRPA defines a paleontological resource as any fossilized remains, traces, or imprints of organisms, preserved in or on the earth's crust, that are of paleontological interest and that provide information about the history of life on earth.

Antiquities Act of 1906. The Antiquities Act was the first law enacted to specifically establish that archaeological sites on public lands are important public resources. It obligated federal agencies that manage public lands to preserve the scientific, commemorative, and cultural values of such sites. This Act does not refer to paleontological resources specifically; however, the Act does provide for the protection of "objects of antiquity" (understood to include paleontological resources) by various federal agencies not covered by the PRPA.

The Federal Land Policy and Management Act of 1976. The Federal Land Policy and Management Act (FLPMA) (43 USC 1701 1782) authorizes inventories and monitoring surveys of paleontological resources on federal land managed by the BLM, which issues a permit for collecting paleontological resources. It also directs the BLM to develop management plans that include public education about paleontological resources and procedures for collection and minimization of impacts to resources.

The BLM defines a significant paleontological resource as any paleontological resource considered to be of scientific interest, including most vertebrate fossil remains and traces, and certain rare or unusual invertebrate and plant fossils. A significant paleontological resource is considered to be scientifically important because it is a rare or previously unknown species, it is of high quality and well preserved, it preserves a previously unknown anatomical or other characteristic, provides new information about the history of life on earth, or has identified educational or recreational value (BLM, 2008).

National Environmental Policy Act of 1969. The National Environmental Policy Act (NEPA) (USC § 4321 et seq.; 40 Code of Federal Regulations, § 1502.25), as amended, directs federal agencies to "Preserve important historic, cultural, and natural aspects of our national heritage (Section 101(b)(4))." The current interpretation of this language has included scientifically important paleontological resources among those resources that may require preservation.

3.14.2.2. State Laws, Regulations, and Policies

California Environmental Quality Act (CEQA) (Public Resources Code Division 13 – Environmental Quality) and CEQA Guidelines (California Code of Regulations Title 14, Division 6, Chapter 3). CEQA declares that it is state policy to: "take all action necessary to provide the people of this state with...historic environmental qualities." It further states that public or private projects financed or approved by the state are subject to environmental review by the state. All such projects, unless entitled to an exemption, may proceed only after this requirement has been satisfied. CEQA requires detailed studies that analyze the environmental effects of a proposed project. In the event that a project is determined to have a potential significant environmental effect, CEQA requires that alternative plans and mitigation measures be considered. The State CEQA Guidelines reflect the requirements set forth in the Public Resources Code, as well as court decisions interpreting the statute and practical planning considerations and define procedures, types of activities, persons, and public agencies that are required to comply with CEQA.

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If paleontological resources are identified as being within a project study area, the sponsoring agency must take those resources into consideration when evaluating project effects. The level of consideration may vary with the importance of the resource.

California Public Resources Code - PRC § 5097.5 and § 30244. A person shall not knowingly and willfully excavate upon, or remove, destroy, injure, or deface, any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, rock art, or any other archaeological, paleontological or historical feature, situated on public lands, except with the express permission of the public agency having jurisdiction over the lands. The code includes rules for legal punishment and restitution. Where development would adversely impact archaeological or paleontological resources as identified by the State Historic Preservation Officer, reasonable mitigation measures shall be required.

3.14.2.3. Local Laws, Regulations, and Policies

Riverside County General Plan. The Multipurpose Open Space Element of the Riverside County General Plan identifies a number of policies intended to minimize impacts to paleontological resources. It also includes a Paleontological Sensitivity Resources map indicating lands with low, undetermined, or high potential for finding paleontological resources. The following policies apply to the portions of the Project area within County- and privately owned lands (Riverside County, 2015):

- Policy OS 19.6. Whenever existing information indicates that a site proposed for development has high paleontological sensitivity as shown on Figure OS-8, a paleontological resource impact mitigation program (PRIMP) shall be filed with the County Geologist prior to site grading. The PRIMP shall specify the steps to be taken to mitigate impacts to paleontological resources.
- Policy OS 19.7. Whenever existing information indicates that a site proposed for development has low paleontological sensitivity as shown on Figure OS-8, no direct mitigation is required unless a fossil is encountered during site development. Should a fossil be encountered, the County Geologist shall be notified and a paleontologist shall be retained by the project proponent. The paleontologist shall document the extent and potential significance of the paleontological resources on the site and establish appropriate mitigation measures for further site development.
- Policy OS 19.8. Whenever existing information indicates that a site proposed for development has undetermined paleontological sensitivity as shown on Figure OS-8, a report shall be filed with the County Geologist documenting the extent and potential significance of the paleontological resources on site and identifying mitigation measures for the fossil and for impacts to significant paleontological resources prior to approval of that department.
- Policy OS 19.9. Whenever paleontological resources are found, the County Geologist shall direct them to a facility within Riverside County for their curation, including the Western Science Center in the City of Hemet.

The proposed Project would comply with all federal, State, and County requirements regarding the development of applicable plans and reports and the recovery and curation of any paleontological resources found.

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3.14.3. Methodology for Analysis

Due to the nature of the fossil record, paleontologists cannot know either the quality or the quantity of fossils present in a geologic unit prior to natural erosion or human-caused exposure. Therefore, in the absence of surface fossils, it is necessary to assess the sensitivity of rock units based on their known potential to produce scientifically significant fossils elsewhere within the same geologic unit (both within and outside of the study area) or a unit representative of the same depositional environment. The paleon-tological resources assessment is based on the paleontological sensitivity of the underlying geologic units as determined by: (1) records searches at the Natural History Museum of Los Angeles County (NHMLAC), San Bernardino County Museum (SBCM), San Diego Natural History Museum (SDNHM), and Western Science Center (WSC); (2) a review of the relevant geologic and paleontological Resource Survey Report (PaleoWest, 2023). The Project site was identified with areas of high and moderate potential for paleon-tological resources and are evaluated for the amount and type of construction ground disturbance and construction and operational activities that would result in impacts to paleontological resources. No areas of very high potential for paleontological resources were identified within the Project site.

3.14.4. CEQA Significance Criteria

The criteria used to determine the significance of potential Paleontological Resources impacts are based on Appendix G of the State CEQA Guidelines. The proposed Project would result in a significant impact under CEQA related to Paleontological Resources if the Project would:

 Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature (Impact PR 1).

The County of Riverside's Environmental Assessment Form includes Paleontological Resources significance criteria that are identical to the above-listed CEQA criteria and are thus not analyzed separately.

3.14.5. Proposed Project Impact Analysis

During the scoping effort conducted by the County of Riverside no concerns related to Paleontological Resources were raised.

Impact PR-1. The project would directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.

LESS THAN SIGNIFICANT WITH MITIGATION. As defined, significant paleontological resources are determined to be fossils or assemblages of fossils that are unique, unusual, rare, uncommon, or diagnostically important. Most impacts on paleontological resources are direct impacts, resulting from ground-disturbing activities that would damage or destroy resources. The result of resource recovery is scientific net gains in the discovery of previously unrecorded paleontological resources. Indirect impacts include the potential for increased unauthorized collection of fossils and other paleontological resources resulting from larger numbers of people in the vicinity (i.e., personnel involved in construction and operation of the facilities).

Since most of the Project site has nearly level to gently sloping topography, no mass grading would be required; however, some areas of the solar site would be affected by some form of ground disturbance, including mowing, grubbing, minor grading, compaction, and excavation. Some of the areas where facilities and arrays would be located would require light grubbing for leveling and trenching. Construction

would require ground disturbance for construction of the solar arrays, substation, O&M building, septic system, BESS foundations, access roads, gen-tie line towers, and other features. This ground disturbance could result in direct impacts to the paleontologically sensitive geologic rock units that could adversely affect (damage or destroy) significant paleontological resources. The desktop paleontological assessment conducted for the Project by PaleoWest identified paleontological resources in the Project vicinity and the paleontological field survey identified paleontological resources on the Project site, including four significant vertebrate fossils from rabbits/hares (Lepus, Leporidae) and tortoises (Testudinidae) (PaleoWest, 2023). PaleoWest assigned PFYC classifications of High (PFYC 4) to the Quaternary alluvium (Qal) and Moderate (PFYC 3a) to the mapped Quaternary nonmarine conglomerates (Qc, Qco). Therefore, significant paleontological resources could be encountered and adversely impacted (damaged or destroyed) during ground disturbance associated with the Easley Project construction.

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The moderate to high sensitivity of the formations and known and potential paleontological resources underlying the Project site necessitates the implementation of a Paleontological Resources Monitoring and Mitigation Plan (PRMP) and worker awareness training to minimize the impact of construction-related activities. Mitigation Measures PR-1 through PR-4 would require a PRMP, paleontological awareness training, paleontological monitoring where appropriate, and mitigation and monitoring reporting. With implementation of Mitigation Measures PR-1 through PR-4 that would require worker training, monitoring during ground disturbing activities, and mitigation and recovery procedures in the event of a discovery, potential adverse impacts on paleontological resources within the Project area during construction and operation of the solar facilities would be reduced to a less-than-significant level.

Indirect effects include the potential for increased unauthorized collection of fossils and other paleontological resources resulting from increased number of people in the vicinity during construction. Implementation of Mitigation Measures PR-1 through PR-4, and the installation of fencing around the perimeter of the Project facility, would minimize the potential for indirect impacts to paleontological resources by limiting unauthorized access to the site, putting in place a monitoring program to ensure fossil identification and recording during construction, and providing an educational program to workers so that paleontological resources are avoided or reported to qualified professionals.

Mitigation Measures for Impact PR-1

MM PR-1	Paleontological Resource Monitoring and Mitigation Plan (PRMP). See Section 3.14.8 (Mitigation Measures) for full text.
MM PR-2	Worker Environmental Awareness Program (WEAP). See Section 3.14.8 (Mitigation Measures) for full text.
MM PR-3	Paleontological Monitoring and Fossil Recovery . See Section 3.14.8 (Mitigation Measures) for full text.
MM PR-4	Paleontological Resources Monitoring Report. See Section 3.14.8 (Mitigation Measures) for full text.

Significance After Mitigation

The impact would be less than significant.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.14.6. Cumulative Impacts

Geographic Scope

The geographic scope of cumulative impacts to paleontological resources is eastern Riverside County. Cumulative development in eastern Riverside County in the Desert Center region of Southern California has the potential to directly or indirectly destroy paleontological resources, particularly during earth moving activities such as grading and excavation in all areas of the Chuckwalla Valley underlain by the same geologic units as the proposed Project; in particular, areas of Quaternary alluvial sediments (Qal) that have a BLM PFYC of Class 4 (High) paleontological sensitivity, or underlain by other geologic units with high to very high paleontological sensitivity. In addition, collection of fossil materials, dislodging of fossils from their preserved environment, and/or physical damage of fossil specimens could also adversely affect paleontological resources. Together these potential direct and indirect impacts associated with development in the cumulative scenario could result in a cumulatively significant impact to paleontological resources.

Cumulative Impact Analysis

As discussed above, there is a potential for paleontological resources on the Project site to be affected during ground-disturbing activities associated with the Project construction (Impact PR-1). A significant cumulative impact would occur if the impacts of multiple projects combined to result in the loss of paleontological resources that could provide information about ancient life in the Chuckwalla Valley. The large amount of ground disturbance proposed from projects in this region is likely to result in some loss of fossil resources; particularly, if ground-disturbing projects do not implement measures to avoid or minimize impacts. This would result in a significant cumulative impact. The Easley Project, as well as the other solar development projects in eastern Riverside County, would be required to provide mitigation for any impacts to paleontological resources in accordance with provisions of CEQA, as well as with regulations currently implemented by the County and BLM, the PRP Act, and the proposed guidelines of the SVP.-. Implementation of Mitigation Measures PR-1 through PR-4 would ensure that the proposed Project would avoid and minimize impacts on paleontological resources to the maximum extent feasible. Therefore, the Easley Project's incremental contribution to cumulative impacts for paleontological resources would not be cumulatively considerable.

Mitigation Measures for Cumulative Impacts

MM PR-1	Paleontological Resource Monitoring and Mitigation Plan (PRMP)
MM PR-2	Worker Environmental Awareness Program (WEAP)
MM PR-3	Paleontological Monitoring and Fossil Recovery
MM PR-4	Paleontological Resources Monitoring Report

Significance After Mitigation

The impact would be less than significant.Cumulative impacts would be less than significant and the Project's contribution to those impacts would not be cumulatively considerable.

3.14.7. Mitigation Measures

MM PR-1 Paleontological Resource Monitoring and Mitigation Plan (PRMP). Prior to the start of any Project-related construction activities, the Applicant shall retain a County- and BLM-approved paleontologist (Project Paleontologist) to prepare and implement a project-specific PRMP to be approved by the County and BLM. The Project Paleontologist shall hold a BLM-issued Paleontological Resource Use Permit and be responsible for implemen-

ting all the paleontological conditions of approval and for using qualified paleontologists to assist in work and field monitoring.

At a minimum, information to be contained in the PRMP, in addition to other information required under industry standard, Society of Vertebrate Paleontology standards, and BLM paleontology program policy and standards, is as follows:

- Identification (name) and qualifications of the Project Paleontologist and qualified paleontological monitors to be employed for grading operations monitoring.
- Identification of personnel with authority and responsibility to temporarily halt or divert grading equipment to allow for recovery of large specimens.
- Description of the project site and planned earthwork and excavation.

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- A site-specific plan and map prepared by the Project Paleontologist which identifies construction impact areas with sediments of High (PFYC 4) and Moderate (PFYC 3a) sensitivity for encountering significant paleontological resources and the approximate depths at which those resources are likely to be encountered for each Project component.
- The PRMP shall require the qualified paleontological monitor(s) to monitor all construction-related earth-moving activities in sediments determined to have a High (PFYC 4) sensitivity.
- The PRMP shall define monitoring procedures and methodology and shall specify that sediments of Moderate (PFYC 3a) or undetermined sensitivity shall be monitored on a part-time basis (as determined by the Project Paleontologist). Sediments with very low or low potential will not require paleontological monitoring (PFYC 1 and 2).
- The PRMP shall detail methods of recovery, preparation, and analysis of specimens, the final curation location of specimens at the repository identified in the BLM-issued Paleontological Resource Use Permit, data analysis, and reporting. Where possible, recovery is preferred over avoidance in order to mitigate the potential for looting of paleontological resources.
- The PRMP shall specify that all paleontological work undertaken by the Applicant on public lands administered by BLM shall be carried out by qualified, permitted paleontologists with the appropriate current BLM Paleontological Resources Use Permit.
- Identification of personnel with authority and responsibility to temporarily halt or divert ground-disturbance activities to allow for recovery of large specimens.

The PRMP shall be submitted to the County and BLM for review and approval 60 days prior to start of Project construction. The PRMP must be approved by the County and BLM prior to the Notice To Proceed.

MM PR-2 Worker Environmental Awareness Program (WEAP). Prior to the start of Project-related construction activities, a paleontological component to the WEAP shall be developed by the Project Paleontologist. The WEAP shall address the potential to encounter paleonto-logical resources in the field, the sensitivity and importance of these resources, and the legal obligations to preserve and protect such resources. The training program shall also include the set of reporting procedures that workers are to follow if paleontological resources are encountered during Project activities. The WEAP may be combined with other environmental training programs for the Project. All field personnel will receive WEAP training on paleontological resources prior to Project-related construction activities.

MM PR-3 Paleontological Monitoring and Fossil Recovery. The PRMP shall identify monitoring frequency and intensity of all areas of the Project site, particularly in areas underlain by geologic units assigned paleontological sensitivity of High (PFYC 4) or Moderate (PFYC 3a). Monitoring will entail the visual inspection of excavated or graded areas and trench sidewalls. If the Project Paleontologist determines full-time monitoring is no longer warranted, based on the geologic conditions at depth, he or she may recommend to the BLM Authorized Officer that monitoring be reduced or cease entirely.

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In the event that a paleontological resource is discovered, the paleontological monitor will have the authority to temporarily divert the construction equipment around the find until it is assessed for scientific significance and, if appropriate, collected. If the resource is determined to be of scientific significance, the Project Paleontologist shall complete the following:

- Salvage of Fossils. If fossils are discovered, all work in the immediate vicinity shall be halted to allow the paleontological monitor, and/or Project Paleontologist to evaluate the discovery and determine if the fossil may be considered significant. If the fossils are determined to be potentially significant, the Project Paleontologist (or paleontological monitor) will recover them following standard field procedures for collecting paleontologist shall have the authority to temporarily direct, divert or halt construction activity to ensure that the potentially significant fossil(s) can be removed in a safe and timely manner.
- Fossil Preparation and Curation. The museum that has agreed to accept fossils that may be discovered during Project-related excavations will be identified on the Paleontological Resources Use Permit held by the Project Paleontologist and in the PRMP. Upon completion of Project ground-disturbing activities, all significant fossils collected shall be prepared in a properly equipped laboratory to a point ready for curation. Preparation may include the removal of excess matrix from fossil materials and stabilizing or repairing specimens. During preparation and inventory, the fossils specimens shall be identified to the lowest taxonomic level practical prior to curation at an accredited museum. The fossil specimens must be delivered to the County- and BLMapproved repository (identified on the permit and in the PRMP) and receipt(s) of collections submitted to the County and BLM no later than 60 days after all grounddisturbing activities are completed.
- MM PR-4 Paleontological Resources Monitoring Report. The Applicant shall ensure preparation of a paleontological resource mitigation and monitoring report by the Project Paleontologist following completion of ground-disturbing activities. The contents of the report shall include, but not be limited to, a description and inventory list of recovered fossil materials (if any); a map showing the location of paleontological resources found in the field; determinations of scientific significance; proof of accession of fossil materials into the preapproved museum or other repository; and a statement by the Project Paleontologist that Project impacts to paleontological resources have been mitigated. The report shall be certified by the professionally qualified Project Paleontologist responsible for the content of the report and submitted to the County and BLM. In addition, all appropriate fossil location information shall be submitted to the Western Information Center, San Bernardino County Museum, and Los Angeles County Museum of Natural History, at a minimum, for incorporation into their Regional Locality Inventories.

3.15. Population and Housing

This section evaluates the impacts on population and housing resulting from implementation of the Project. The analysis in this section: presents an overview of existing conditions that influence population and housing, describes the applicable regulations, identifies the criteria used for determining the significance of environmental impacts, and describes the potential impacts to population and housing. <u>An impact analysis and comparison of project alternatives is included in Section 5.</u>

3.15.1. Environmental Setting

3.15.1.1. Population

The proposed Project area is in Riverside County, which is the fourth most populous county in California (CA DOF, 2022). Table 3.15-1 provides a summary of the existing population, housing, and employment conditions for Desert Center, CA (the general location of the proposed Project) and Riverside County and San Bernardino County (counties where the construction workforce would largely be recruited).

Table 3.15-1. Year 2021 Existing Conditions – Population, Housing, and Employment: Desert Center, Riverside County, and San Bernardino County.

	Housing Units			Employment		
Location	Population	Total Units	Vacancy Rate	Total Employed ¹	Unemployment Rate	
Desert Center	288	241	35.0%	268	0%	
Riverside County	2,435,525	863,784	10.5%	1,130,500	3.7%	
San Bernardino County	2,187,665	740,654	8.9%	990,100	3.6%	

1: Accounts for population greater than 16 years of age and in Labor Force.

Source: CA DOF, 2022; CA EDD, 2022, US Census Bureau 2021a, 2021b, 2021c.

Population estimates, future projections, and average annual growth rates for Riverside County and San Bernardino County are summarized in Table 3.15-2. There was no data available for Desert Center regarding population projections, so it has not been included in Table 3.15-2. Populations from 2020 through 2050 are listed with an average annual growth number and rate for the communities within the study area. The population growth in both Riverside County and San Bernardino County are expected to increase slowly during the next three decades, with Riverside County projected to have a slightly higher annual growth rate than San Bernardino County.

Table 3.15-2. Population Estimates, Projections, and Average Annual Growth Rates
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	Riverside County	San Bernardino County
Population, 2020	2,449,299	2,184,112
Projected Population, 2025	2,593,906	2,273,291
Average Annual Growth Rate, 2020-2025	1.18%	0.82%
Projected Population, 2030	2,728,068	2,368,002
Average Annual Growth Rate, 2025-2030	1.03%	0.83%
Projected Population, 2040	2,933,038	2,536,592
Average Annual Growth Rate, 2030-2040	0.75%	0.71%
Projected Population, 2050	3,059,095	2,681,796
Average Annual Growth Rate, 2040-2050	0.42%	0.57%
Source: CA DOF 2021.		

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3.15.1.2. Housing

The current occupied and vacant housing estimates are presented in Table 3.15-1 for communities and counties within the study area of Desert Center, Riverside County, can San Bernardino County. The vacancy rate of Desert Center is high with about 35 percent of the total housing units vacant. Riverside County and San Bernardino County have relatively low vacancy rates, with approximately 9 percent and 4 percent of the total housing units vacant, respectively.

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3.15.2. Regulatory Framework

There are no federal, state, or local regulations, plans, and standards for population and housing that apply to the proposed Project.

3.15.3. Methodology for Analysis

The regulations implementing CEQA state that economic or social factors of a project may be included in a CEQA document but shall not be treated as significant effects on the environment. However, economic or social effects of a project may be used to determine the significance of physical changes caused by the Project. Additionally, economic, social, and housing factors should be considered by public agencies together with technological and environmental factors in deciding whether changes in a project are feasible to reduce or avoid the significant effects on the environment.

To determine whether the proposed Project would induce population growth, the availability of the local workforce and population in the region was analyzed. It was assumed that most construction workers would be drawn from communities located within Riverside County and San Bernardino County, which have the largest concentration of construction workers in proximity to the proposed Project area. It is anticipated that most projected construction workforce would likely seek housing closer to the proposed Project area (within an hour driving distance) or seek temporary housing (such as seasonal, recreational, or occasional use housing; long-term visitor areas; and hotel and motels) during the week and commute an average 150 miles round trip per day and commute home over the weekend.

3.15.4. CEQA Significance Criteria

The significance criteria listed below are from the Environmental Checklist Form in Appendix G of the State CEQA Guidelines. Under CEQA, the proposed Project and alternatives would have significant impacts on population and housing if they would result in:

Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure) (see Impact PH-1).

The following additional significance criteria from the County of Riverside Environmental Assessment form are used in this analysis. A project could have potentially significant impacts if it would:

 Cumulatively exceed official regional or local population projections (see Section 3.14.9, Cumulative Impacts)

The following CEQA significance criteria from Appendix G were not included in the analysis:

 Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere. The proposed Project would be constructed on vacant desert land and would not remove any existing structures. The Project would not cause displacement of existing housing or people, and would not necessitate construction of replacement housing elsewhere.

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The following CEQA significance criteria from the County's Environmental Assessment Form were not included in the analysis for the following reasons:

Create a demand for additional housing, particularly housing affordable to households earning 80% or less of the County's median income.

The proposed Project would not create a demand for additional housing due to the temporary nature of Project construction activities and the nominal workforce required during Project operation. During construction, workers would commute to the Project site from nearby communities in Riverside County and San Bernardino County.

Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere.

Similar to the above, the proposed Project would not displace substantial existing housing or people due to the fact that there are no existing residential buildings on site, and no housing structures would be removed as part of the Project. As a result, the construction of replacement housing is not necessary. In addition, the Project workforce would be sourced locally, and the proposed Project does not contain a residential component.

Affect a County Redevelopment Project Area.

The proposed Project area and its immediate vicinity would not be within a County Redevelopment Project Area.

3.15.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to population and housing. Public concerns included a potential for decreased property values due to the proximity of the Project, which is an economic effect and, therefore, not a significant impact under CEQA (see Section 3.15.3). For informational purposes, concerns related to property values are addressed in Section 3.12, Land Use and Planning, and Section 4.7 (Other Public Concerns).

Impact PH-1. The Project could induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure).

LESS THAN SIGNIFICANT. During the 20-month construction period of the proposed Project, the on-site workforce is expected to reach peak of approximately 530 individuals with an average construction-related on-site workforce of 320 individuals. The construction workforce would largely be recruited from within Riverside and San Bernardino Counties. Riverside County has the largest concentration of construction workers close to the Project area. It is anticipated that many workers are likely to engage in weekly commuting or otherwise temporarily relocate to the Desert Center region while working at the Project area.

In 2021, Desert Center's unemployment rate averaged 0 percent, Riverside County's unemployment rate averaged 3.7 percent, and San Bernardino County's unemployment rate averaged 3.6 percent. Based on the most recent unemployment rates, it is anticipated that most construction, operation, and maintenance workforce would come from the existing labor pool in nearby communities in Riverside or San Bernardino Counties.

As illustrated in Table 3.15-1, Year 2021 Existing Conditions – Population, Housing, and Employment: Desert Center, Riverside County, and San Bernardino County, vacancy rates in the study areas are high, ranging from about 9 to 35 percent. Within the Desert Center area, there are approximately 115 vacant units. Riverside County as a whole has approximately 103,919 vacant units. There are sufficient vacant housing units within the local communities to support the number of construction workers to the extent that they are not only drawn from local communities. The proposed Project would not trigger the need for construction of new housing and would not induce substantial permanent growth to the regional population levels.

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During operation of the proposed Project, up to 10 permanent staff members could be on the site at any one time for ongoing facility maintenance and repairs. Alternatively, approximately 2 permanent staff and 8 Project operators would be located off site and would be on call to respond to alerts generated by the monitoring equipment at the Project site. Security personnel would be on-call. These staff would also be sourced from nearby communities in Riverside County and San Bernardino County. The permanent staff are not anticipated to increase the local population and vacancy rates within the study area offer ample available housing to operational employees wishing to relocate within the local study area.

Decommissioning of the proposed Project would require removal of the solar equipment and facilities and transportation of all components off site. Decommissioning activities would require similar equipment and workforce as construction but would be substantially less intense.

Overall, the proposed Project's impact on population growth in the Project area and demand for additional housing from construction, operation, and decommissioning would be less than significant.

Similar to the solar and energy storage facility, workers for the gen-tie line (a peak of up to 530 workers for a 20-month period) would be sourced from nearby communities in Riverside County and San Bernardino County. Given the unemployment and vacancy rates in the Desert Center area and Riverside County and San Bernardino County as a whole, any potential population growth in the Project area would either be temporary or insubstantial during construction and operation of the proposed Project and the existing vacant housing units would be sufficient to support the Project. Impacts would be less than significant.

Mitigation Measures for Impact PH-1

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.15.6. Cumulative Impacts

Geographic Scope

The geographic scope of the cumulative impacts analysis includes populated areas within a two-hour worker commute distance of the proposed Project site near Desert Center, which would extend out into the rest of Riverside County and into San Bernardino County. This geographic scope would include all projects listed in Tables 3.1-1 and 3.1-2.

Solar and Energy Storage Facility

Short-term cumulative impacts to population and housing would occur during the construction and decommissioning periods when overlapping construction schedules of multiple projects create a demand for workers that may not be met by the local labor force, thereby inducing in-migration of non-local labor and their households. Operational cumulative population and housing impacts could occur when multiple projects cause a substantial increase in population in an area that leads to demand for housing that exceeds available capacity.

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Construction of the present and reasonably foreseeable future development projects shown in Tables 3.1-1 and 3.1-2 may overlap with construction of the proposed Project. Under the conservative assumption that peak construction periods overlap for all reasonably foreseeable projects, there would be an increased demand for temporary housing units in the cumulative area. As discussed under Section 3.15.1, the vacancy rates for housing units are moderately high (35 percent in Desert Center) and there are a number of temporary housing options available as well. There is an ample supply of housing units to accommodate workers drawn from outside the two-hour commute area. Therefore, cumulative impacts in the cumulative scenario on housing are projected to be less than significant. The proposed Project would contribute an additional peak labor need of approximately 530 individuals. Given the availability of housing units, the incremental effects of the Project, when considered together with other past, present, and reasonably foreseeable future projects, would not result in a considerable contribution to cumulative population or housing impacts.

500 kV Gen-tie Line

Cumulative impacts of the gen-tie line would be the same as for the solar and energy storage facility with regards to impacts to population and housing in the study area. The gen-tie line would not make a considerable contribution to cumulative impacts because any potential population growth in the Project area due to the construction and operation of the Project gen-tie line would either be temporary or insubstantial during construction and operation of the proposed gen-tie line.

Mitigation Measures for Cumulative Impacts

No mitigation would be required.

Significance After Mitigation

<u>The cumulative impact would be less than significant.</u> The Project's incremental contribution to impacts to population and housing would not be cumulatively considerable.

3.15.7. Mitigation Measures

No mitigation would be required.

3.16. Public Services and Utilities

This section evaluates the impacts on public services and utilities resulting from implementation of the proposed Project. The analysis in this section: presents an overview of existing conditions that influence public services and utilities, describes the applicable regulations, identifies the criteria used for determining the significance of environmental impacts, and describes the potential impacts on public services and utilities of the proposed Project. An impact analysis and comparison of project alternatives is included in Section 5.

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3.16.1. Environmental Setting

3.16.1.1. Fire Protection

Riverside County Fire Department, in cooperation with California Department of Forestry and Fire Protection (CAL FIRE), provides fire and emergency services to residents of unincorporated areas of Riverside County (Riverside County Fire Department, 2023a). The closest Riverside County Fire Department/CAL FIRE station to the proposed Project location in the Desert Center area is Station 49 – Lake Tamarisk Station, located at 43880 Lake Tamarisk, Desert Center, about 0.3 miles southwest of the Project (Riverside County Fire Department, 2023b).

The BLM Fire and Aviation Program is responsible for fire and fuels management and protection of federal lands, identified as Federal Responsibility Areas, within the United States. The Fire and Aviation program includes fire suppression, preparedness, predictive services, fuels management, fire planning, community assistance and protection, prevention and education, and public safety. BLM establishes fire prevention orders and restrictions to assist with wildland fire prevention efforts throughout the public lands within the California Desert District, which portions of Inyo, Imperial, Kern, Mono, Los Angeles, San Bernardino, San Diego, and Riverside Counties.

3.16.1.2. Police Protection

The Riverside County Sheriff's Department's Colorado River Station provides service to the unincorporated area from Red Cloud Road on the west, to the Arizona state line on the east, and county line to county line on the north and south, which includes the Desert Center area. The Colorado River Station is located at 260 North Spring Street, Blythe, CA (Riverside County Sheriff, 2023), approximately 45 miles east of the proposed Project area.

The California Highway Patrol (CHP) is the primary law enforcement agency for State highways and roads. The CHP division covering highways within the Desert Center area is the Border Division. The California Highway Patrol Blythe Area serves the East Riverside County Region and is located at 430 South Broadway, Blythe, CA. This office patrols Interstate 10, State Route 78, and U.S. Route 95, as well as 500 miles of unincorporated Riverside County roadways (CHP, 2023).

The BLM has approximately 200 law enforcement rangers on staff who promote safety, security, and environmental protection of public lands, public land users, and employees. The BLMs law enforcement program draws its authority from federal law under federal jurisdiction. BLM law enforcement officers enforce federal laws and do not have authority to enforce state laws without written authorization from a sheriff, other authorized state official, or state law (BLM, 2023).

3.16.1.3. Emergency Medical Services

The Palo Verde Hospital, located at 250 North 1st Street, Blythe, CA, is the closest hospital to the proposed Project area. It provides intensive care and radiology services as well as surgery. The hospital has 51 patient

beds, consisting of 4 intensive care beds, and 2 surgical suites (Palo Verde Hospital, 2023). It is located approximately 45 miles east of the proposed Project area.

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Desert Regional Medical Center, located about 65 miles to the west of Desert Center at 1150 North Indian Canyon Drive in Palm Springs, CA, is the second closest hospital to the proposed Project area. The medical center is the only designated Level II trauma center in the Coachella Valley and is equipped with 385 beds. The facility includes tertiary acute care services, critical care services, and a skilled nursing unit (Desert Care Network, 2023).

3.16.1.4. Parks

There are no recreation facilities, developments, or specific recreational attractions on the Project site. However, the surrounding area offers multiple outdoor recreational opportunities, including off-highway vehicle use, camping, rock hounding, and hiking. The Project is east of the Joshua Tree National Park and is near other recreational areas, such as the Palen-McCoy Wilderness Area and the Chuckwalla Mountains Wilderness Area. No local parks or Riverside County regional parks are located in the vicinity of the Project area near Desert Center (Riverside County RPOSD, 2023).

See Section 3.17, Recreation, for more information about recreation resources near the Project area.

3.16.1.5. Schools

The Desert Center Unified School District serves the Desert Center area where the proposed Project is located. The closest school to the Project area is Eagle Mountain School, which serves kindergarten through eighth grade students (CDE, 2023) and is located approximately 6 miles northwest of the Project area.

3.16.1.6. Libraries

The Riverside County Library System serves all Riverside County. The closest library branch to the proposed Project area is the Lake Tamarisk Branch located at 43880 Tamarisk Drive, Desert Center, CA (Riverside County Library System, 2023), about 0.5 miles south of the Project area.

3.16.1.7. Solid Waste Services

The following Table 3.16-1 lists the capacities of the active landfills near the Desert Center area. The closest landfill to the Project area is the Desert Center Landfill, located at 17991 Kaiser Road, Desert Center, CA, approximately 0.2 miles west of the northwest corner of the Project area.

Table 3.16-1. Landfill Capacities

Landfill Name	Total Capacity (cu.yd.)	Remaining Capacity (cu.yd.)	Remaining Capacity (percent)	Maximum Throughput (tons/day)
Blythe Sanitary Landfill (Cease operation estimated 2047)	6,229,670	3,834,470	61.55	400
Desert Center Landfill (Cease operation estimated 2041)	409,112	127,414	31.14	60

Sources: CalRecycle, 2023a and 2023b.

3.16.1.8. Utilities

Water in the Desert Center area is primarily provided from well water or Riverside County Service Area 51 (CSA 51). Wastewater is generally collected in septic tanks and <u>areis</u> not conveyed through a sewer system and treated at a centralized treatment plant. Southern California Edison provides electricity to the Desert

Center and surrounding areas (CEC, 2020a). Southern California Gas provides natural gas to the area (CEC, 2020b). Telecommunications are provided by AT&T, T-Mobile, Verizon, and Sprint (CPUC, 2023).

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3.16.2. Regulatory Framework

There are no federal or local regulations, plans, and standards for public services and utilities that apply to the proposed Project.

3.16.2.1. State Laws, Regulations, and Policies

2010 Strategic Fire Plan for California. The 2010 Strategic Fire Plan for California was developed in coordination with the State Board of Forestry and Fire Protection and CAL FIRE to reduce and prevent the impacts of fire in California. Goal 6 of the Plan sets objectives to determine the level of suppression resources (staffing and equipment) needed to protect private and public state resources. Specific objectives include, but are not limited to, maintaining an initial attack policy which prioritizes life, property, and natural resources; determining suppression resources allocation criteria; analyzing appropriate staffing levels and equipment needs in relation to the current and future conditions; increasing the number of CAL FIRE crews for fighting wildfires and other emergency response activities; maintaining cooperative agreements with local, state, and federal partners; and implementing new technologies to improve firefighter safety, where available (State Board of Forestry and Fire Protection). The standards outlined are applicable to the fire protection agency serving unincorporated Riverside County.

California Integrated Waste Management Act of 1989. Assembly Bill 939 codified the California Integrated Waste Management Act of 1989 in the Public Resources Code and established a hierarchy to help the California Integrated Waste Management Board (CIWMB) and local agencies implement three major priorities under the Integrated Waste Management Act: source reductions; recycling and composting; and environmentally safe transformation and land disposal. Waste diversion mandates are included under these priorities. The duties and responsibilities of the CIWMB have since been transferred to the California Department of Resources Recycling and Recovery (CalRecycle) after the abolishment of the CIWMB in 2010, but all other aspects of the Act remain unchanged.

The Act requires all local and county governments to adopt a waste reduction measure designed to manage and reduce the amount of solid waste sent to landfills. This Act established reduction goals of 25 percent by the year 1995 and 50 percent by the year 2000. Senate Bill 1016 (2007) streamlines the process of goal measurement related to Assembly Bill 939 by using a disposal-based indicator: the per capita disposal rate. The per capita disposal rate uses only two factors: the jurisdiction's population (employment can be considered in place of population in certain circumstances) and the jurisdiction's disposal as reported by disposal facilities. CalRecycle encourages reduction measures through the continued implementation of reduction measures, legislation, infrastructure, and support of local requirements for new developments to include areas for waste disposal and recycling on site.

California Code of Regulations (Title 27). Title 27 (Environmental Protection) of the California Code of Regulations defines regulations and minimum standards for the treatment, storage, processing, and disposal of solid waste at disposal sites. The State Water Resources Control Board maintains and regulates compliance with Title 27 (Environmental Protection) of the California Code of Regulations by establishing waste and site classifications and waste management requirements for solid waste treatment, storage, or disposal in landfills, surface impoundments, waste piles, and land treatment units. The compliance of the proposed Project would be enforced by the Colorado River RWQCB Region 7 and the California Department of Resources Recycling and Recovery (CalRecycle) (formerly the California Integrated Waste Management Board). Compost facilities are regulated under CCR Title 14, Division 7, Chapter 3.1 Section 17850 through 17895, by CalRecycle. Permit requests, Reports of Waste Discharge, and Reports and

Disposal Site Information are submitted to the RWQCB and CalRecycle, and are used by the two agencies to review, permit, and monitor these facilities.

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California Fire Code (CFC). Chapter 12 of the CFC provides provisions related to the installation, operation and maintenance of energy systems used for generating or storing energy to safeguard the public health, safety and general welfare from the hazards of fire, explosion or dangerous conditions in new and existing buildings, structures and premises, and to provide safety and assistance to fire fighters and emergency responders during emergency operations. Section 1207 of the 2022 CFC provides requirements for Electrical ESS. Battery Energy Storage Systems (BESS) greater than 600 kWh are required by the CFC to be UL (Underwriter's Laboratory) listed and have full-scale testing using the testing standard UL9540A. UL9540A tests a variety of fire and life safety features on the battery including thermal runaway, gas venting, and fire propagation.

3.16.3. Methodology for Analysis

This section considers the potential impact to and disruption of public services and utilities in the Desert Center area during Project construction and operation. Many public services and utilities would experience minor impacts. However, because of the potential need to disrupt services for extended periods of time during construction, some of the impacts may be moderate. The metrics used to compare alternatives would be the length of time required for construction of the different alternatives and whether that would result in a longer disruption time. If an alternative required a substantially longer construction timeframe than others or required substantially more services than others, this would also be used to compare impacts to public services.

3.16.4. CEQA Significance Criteria

The criteria used to determine the significance of potential public services and utilities impacts are based on Appendix G of the State CEQA Guidelines. The proposed Project would result in a significant impact under CEQA related to public services and utilities if the Project would:

- Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities; and/or result in the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services, which include (see Impact PSU-1):
 - Fire Protection;
 - Police Protection;
 - Schools;
 - Parks; and
 - Other Public Facilities.
- Require or result in the relocation or construction of new or expanded water, wastewater treatment, or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental issues (see Impact PSU-2).
- Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years (see Impact PSU-3).
- Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals (see Impact PSU-4).

• Not comply with federal, state, and local management and reduction statutes and regulations related to solid waste (see Impact PSU-4).

The County of Riverside's Environmental Assessment Form includes additional significance criteria, which were also used in the analysis. The additional criteria indicate that a project could have potentially significant impacts if it would:

- Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities; and/or result in the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services, which include (See Impact PSU-1):
 - Sheriff Services;
 - Libraries; or
 - Health Services.
- Not comply with federal, state and local statues and regulations related to solid wastes including the County Integrated Waste Management Plan (CIWMP) (see Impact PSU-4).

The following CEQA significance criteria from Appendix G were not included in the analysis and are not discussed further beyond this summary:

- Result in construction of new facilities or the expansion of the existing following facilities:
 - Electricity;
 - Natural gas;
 - Communications systems;
 - Storm water drainage;
 - Street lighting;
 - Maintenance of public facilities, including roads; or
 - Other governmental services.

The proposed Project would generate renewable energy that would have an overall beneficial effect on the electricity supply. The Project would not use any sources of natural gas. The Project would not require expansion of existing or new street lighting, storm water drainage, or other public facilities, including roads.

• Conflict with any adopted energy conservation plans.

The proposed Project would further the goals of the California Renewable Portfolio Standard (RPS) and other similar renewable programs in the state. The Project operation would have an overall beneficial effect on the electricity supply to the grid and would help decrease reliance on coal power. No conflicts with adopted energy conservation plans would occur.

3.16.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to public services and utilities. Public concerns related to public services and utilities that were identified in the scoping process involved the waste that batteries cause when they are no longer useful, and the potential for an increased need for law enforcement. <u>Waste caused by batteries would be handled appropriately, as discussed in Section 3.10, Hazards and Hazardous Materials, and in Appendix W, Hazardous Materials Management Plan (HMMP).</u>

A commenter noted that the Lake Tamarisk sewage settlement ponds are on BLM-administered land within the perimeter of the proposed Project and suggested the sewage pond land needs to be assigned to Riverside County in care of County Service Area (CSA) 51. The sewage ponds referenced in this comment are located on BLM-administered land within the Easley Project boundaries (APN 808-230-005). Water and sewer services are provided to Lake Tamarisk by the County. The sewage ponds are part of a County facility that contains wastewater evaporation ponds with underground pipes to service Lake Tamarisk. Currently, the ponds and the facility are not fully used, and the County has no plans to expand the ponds/ facility. The Easley Project would not impact the sewage settlement pond facility. Ingress/egress to the facility and access to the underground sewer lines would be maintained. Assignment of the ponds to CSA 51 would be a matter between BLM and Riverside County that is outside of the scope of the Easley Project.

Impact PSU-1. The Project would result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities; and/or result in the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for public services.

LESS THAN SIGNIFICANT. Construction is anticipated to occur over a 20-month-period and require an average construction-related on-site workforce of 320 individuals, with the peak workforce reaching approximately 530 individuals. As discussed in Section 3.15, Population and Housing, it is anticipated that the construction workforce would be drawn from communities within Riverside County and San Bernardino County and would not induce substantial permanent growth to the regional population levels.

After the construction phase, up to 10 permanent staff could be on the site at any one time for ongoing facility maintenance and repairs. These 10 operation personnel would also come from local communities and would not contribute to a significant population increase.

Decommissioning is anticipated to require a workforce similar to or slightly less than that required for construction. The workforce would be drawn from communities within Riverside County and San Bernardino County and would not induce substantial permanent population growth at the regional or local level.

Fire Protection

The Project area is not within a designated area of very high or high fire hazard, according to the CAL FIRE Fire Hazard Severity Zones Map (Riverside County, 2021). In addition, no structures would be retained as residences or would be constructed as residences as part of the proposed Project.

During construction, there is the potential for both small fires and major structural fires. Electrical sparks, combustion of fuel oil, hydraulic fluid, mineral oil, or insulating fluid at substations, or flammable liquids, explosions, and over-heated equipment may cause small fires. The proposed Project could result in an increase in demand for fire protection services over existing levels during construction. However, local fire protection services, along with the provisions in the Fire Protection Plan, are anticipated to be adequate enough to handle this potential increase in demand for fire services, and no construction of new fire protection facilities is proposed.

Construction of the proposed Project would not cause population growth sufficient to generate a need for new or expanded fire protection facilities. Impacts would be less than significant, and no mitigation would be required.

To further reduce this less than significant impact, the Fire Management and Prevention Plan for the Project, developed as part of the BLM Plan of Development (POD) and reviewed by Riverside County Fire Department (RCFD), will identify potential hazards and accident scenarios that would exist at the facility during

construction. The Fire <u>Management and</u> Prevention Plan would decrease the risk of fires and include fire response measures that employees would implement before emergency responders arrive on site.

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Increases in long-term demand for fire protection services typically are associated with substantial permanent increases in population. Approximately 320 to 530 daily workers would be present on site during the 20-month construction period. As discussed in Section 3.15, Population and Housing, it is anticipated that the construction workforce will be drawn from communities within Riverside County and San Bernardino County, and therefore would not induce substantial growth even during the construction period such that the demand for fire protection services, aside from that mentioned for activities taking place at the construction project itself, would increase. After the construction phase, up to 10 permanent staff could be on the site at any one time for ongoing facility maintenance and repairs. These 10 operation personnel would not contribute to a significant population increase, resulting in an increase to the demand for fire protection services, or require new or altered facilities. Additionally, the proposed Project would include emergency access and other safety features and plans for fire protection, and impacts would be less than significant. No new public facilities would be needed to maintain acceptable service ratios, response times, or other performance objectives for fire protection. Overall, the Project's impact on the RCFD's ability to maintain acceptable service ratios, response times, or other performance objectives relating to technical rescue services would be less than significant.

Police Protection and Sheriff Services

The temporary increase of construction workers could increase demands on police services. Although an addition of up to 530 construction personnel would alter the current protection service ratio, because Project construction is not anticipated to permanently increase the local population, no new or expanded law enforcement facilities or increased staff levels within the Project regional or local study area would be required. In addition, during construction, on-site security would include trained, uniformed, and unarmed personnel whose primary responsibility would be to control ingress and egress of personnel and vehicles, perform fire and security watch during off hours, and perform security badge administration, all of which would minimize the potential need for assistance from the Riverside County Sheriff's Department or the CHP.

Construction of the proposed Project would generate truck and employee traffic along haul routes and at the Project area, which could temporarily increase the accident potential in these areas or affect response times or other service performance over the approximate 20-month construction period. The additional volume of traffic associated with workers commuting to the sites during construction would be temporary and it is anticipated that personnel and equipment from the Riverside County Sheriff's Department or the CHP would suffice to respond to incidents in the Project area. In addition, Project construction is not expected to adversely affect the CHP's ability to patrol the highways. Once operational, the Project area would include perimeter fencing, controlled access gates, and security cameras and lighting, which would minimize the potential need for the police assistance. The Project may also include infrared lighting on the tallest gen-tie structures at one crossing to ensure military low-level aircraft safety. Project decommissioning impacts would be the same as those described for Project construction.

Overall, Project construction, operations, and decommissioning would not result in the need for new or physically altered police or sheriff protection facilities to maintain acceptable service ratios, response times, or other performance objectives. Impacts would be less than significant.

Schools

As described above and in Section 3.15, Population and Housing, there are sufficient vacant housing units within the nearby communities to support the number of construction workers and the proposed Project would not trigger the need for new housing. Up to 10 permanent staff could be on the site at any one

time for ongoing facility maintenance and repairs. These 10 operation personnel would come from the local labor force and would not contribute to a significant population increase. The Project would not displace populations or existing housing, and it would not necessitate construction of replacement housing elsewhere. Therefore, the temporary addition of construction and decommissioning workers and the long-term addition of operational personnel to the Project area's population is not anticipated to increase school enrollment sufficiently to require new schools to be constructed or existing schools to be physically altered to allow for a Project-related increase in enrollment, where the physical alteration of the school could result in adverse environmental impacts. Impacts would be less than significant.

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Parks

As discussed above, no local parks or Riverside County regional parks are in or near the vicinity of the Project area near Desert Center. The required construction and decommissioning workforce of the Project would be hired from the available regional workforce. There would be temporary in-migration that would increase the local population during construction; however, it would not warrant the need for new or expanded parks and recreational facilities within the Project regional or local study area. It is anticipated that some or most of the workforce would temporarily relocate to near the Project site and would commute home on the weekends so are unlikely to use the recreation facilities. Although some workers may use recreational areas during Project construction and operation, increased use would be minimal and/or temporary and would not contribute substantially to the physical deterioration of existing facilities. Less than significant impacts would occur. Park and other recreational facilities are discussed in detail in Section 3.17, Recreation.

Other Public Facilities

Health Services

The RCFD would provide first responder emergency medical care. The nearest RCFD fire stations are staffed full-time, 24 hours, 7 days a week, with a minimum three-person crew, including paramedics. Once a patient is transported, local area hospitals are available to provide emergency medical care.

While a high number of construction and decommissioning employees would be located on site, local area emergency medical facilities are expected to adequately handle any worksite accidents requiring their attention. Minor injuries could be treated at Palo Verde Hospital in Blythe. Injuries resulting in significant trauma would be treated at the Desert Regional Medical Center in Palm Springs. Project construction and operation would therefore not require new or physically altered hospital facilities or personnel or result in the increase in emergency responder staff levels within the Project regional or local study area; impacts would be less than significant.

Libraries

Consistent with the impacts previously discussed for other public facilities, although Project construction and decommissioning would temporarily increase the number of people within the Palo Verde Valley, it would not substantially increase the population. The permanent addition of 10 full-time staff and the operation- and maintenance-related demands of the Project would also not substantially increase the population. New or expanded library facilities within the area are not required and impacts would be less than significant.

Mitigation Measures for Impact PSU-1

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

Impact PSU-2. The Project would require or result in the relocation or construction of new or expanded water, wastewater treatment, storm water drainage, electric power, natural gas, or telecommunications facilities, which could cause significant environmental effects.

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LESS THAN SIGNIFICANT. The Project would not require or result in the relocation or construction of new water, wastewater treatment, or natural gas facilities during construction, operation, maintenance, or decommissioning because the Project would not be connected to a public water or sewer system and would not use natural gas.

The Project would construct a new electric solar power facility that includes a BESS, SCADA, and telecommunications system. The construction of the Project would cause potentially significant environmental effects as described in detail in Sections 3.2 through 3.19 of this Environmental Impact Report. The EIR includes mitigation measures to reduce the effects to the extent feasible and complies in accordance with CEQA.

Construction of the proposed Project would require ground-disturbing activities, including solar array installation, substation yards and O&M building construction, construction of access roads, and construction of the gen-tie, medium voltage collector, and distribution lines. Since most of the site has nearly level to gently sloping topography, no mass grading would be required; however, much of the solar and energy storage facility would be impacted by some form of ground disturbance, either from compaction, micrograding, or disc-and-roll grading. Grading could alter naturally occurring drainage patterns and result in soil erosion, sedimentation, long-term siltation, and increased storm water runoff. Vegetation removal for road clearance and construction areas decreases the ability of the soil to absorb water, which also increases storm water runoff from such disturbed areas. Vegetation would be cleared for construction of the drainage controls, including berms if needed. Site preparation also would include construction of drainage components to capture and direct stormwater flow around the BESS facility.

As part of the Project, a Storm-water Pollution Prevention Plan (SWPPP) or SWPPP-equivalent document would be prepared by a qualified engineer or erosion control specialist and would be implemented before and during construction. The SWPPP would be designed to reduce potential impacts from storm water runoff and existing drainage patterns. In addition, the SWPPP would include best management practices (BMPs) for controlling runoff and reducing erosion. The BMPs would include storm water runoff quality control measures, concrete waste management, storm water detention, watering for dust control, and construction of perimeter silt fences, as needed. The SWPPP and associated BMPs are a regulatory requirement, thus, not considered to be a mitigation measure necessary to reduce the impact significance for Impact PSU-2. However, the implementation of the BMPs included in the SWPPP or a SWPPP-equivalent document would ensure that the proposed Project would not require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause potentially significant environmental effects, and impacts would be less than significant.

Mitigation Measures for Impact PSU-2

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

Impact PSU-3. The Project would have insufficient water supplies available to serve the Project and reasonably foreseeable future development during normal, dry and multiple dry years.

LESS THAN SIGNIFICANT. During the construction phase of both the solar facility and generation-tie line, it is anticipated that a total of up to 1,000 acre-feet would be used over the 20-month construction timeframe for dust suppression, truck wheel washing, and other purposes. Restroom facilities for the construction workforce would be provided by portable units to be serviced by licensed providers.

During operation, water would be required for panel washing, maintenance, the BESS facility, and for substation restroom facilities. The proposed Project would require water for panel washing up to four times per year and other uses resulting in the use of approximately 50 acre-feet annually. Water used during panel washing would be absorbed into the surrounding soil or would evaporate. Water would also be used for fire safety and the implementation of BMPs and mitigation measures.

Water for operations, construction needs, and related dust control would be obtained from either an onsite groundwater well or purchased off site. Water tanks would likely be set up by any groundwater wells and near the O&M building. These water sources would tap into the Chuckwalla Valley Groundwater Basin (CVGB).

A Water Supply Assessment (EIR Appendix G, Water Supply Assessment) was conducted for the Project and concluded that the CVGB's current annual groundwater recharge and outflows are almost balanced, and all estimated groundwater demand for the Project may be sourced from the CVGB without resulting in a cumulative groundwater deficit under average climatic conditions using conservative groundwater recharge estimates.

During a normal year, the baseline groundwater budget for the CVGB indicates an annual groundwater surplus of 100 AF. There would be an initial groundwater deficit during the construction phase of the project, because the estimated water use for construction is greater than 100 AF, however, there would be a recovery of groundwater levels during the operational phase, because this phase uses less water.

For dry and multiple dry years, the Water Supply Assessment concluded that, including all cumulative projects, there would be a total groundwater deficit of approximately 102,900 AF. The Project would contribute 1,500 AF, approximately 1 percent to this deficit. At the end of the projected 37-year period analyzed in the water supply assessment, there would be some recovery of groundwater levels, but overall, there would be a deficit of approximately 126,500 AF.

As stated in Section 3.11, Hydrology and Water Quality, assuming normal recharge data and the available water supplies during normal, single, dry, and multiple dry water years from the CVGB, would meet the projected water demands of the Project, in addition to existing uses. Additionally, the water budget indicates the CVGB water balance would be in a state of surplus after the 52-year period under normal conditions with the Project in place. -Based on the adopted water budget components (primarily based on Fang et al. [2021]), the CVGB is not in overdraft. CVGB also is a very low priority basin. Additionally, DWR (2004) estimated the total groundwater storage capacity of the CVGB is 9,100,000 to 15,000,000 AF. Therefore, based on available historical data, storage capacity and hydrogeologic properties of the CVGB, the presented CVGB water budget, the modeled cone of depression from Project pumping, and the assumed water use of 3,500 AF (approximately 0.0004 percent of an assumed 10,000,000 AF CVGB groundwater storage capacity) over the life of the Project (52 years), the Project is not anticipated to negatively impact groundwater storage, nor cause substantial impact to the available quantity of groundwater in the CVGB that affects beneficial uses. Therefore, the available water supplies during normal, single dry, and multiple dry water years from the CVGB would meet the projected water demands of the Project, in addition to existing uses and foreseeable future development.

Although there would be a groundwater deficit, sufficient water supplies are available to serve the Project's needs. The CVGB would have sufficient water supplies for construction, operation, and decommissioning of the Project, along with future foreseeable development. Impacts would be less than significant.

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Mitigation Measures for Impact PSU-3

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

Impact PSU-4. The Project would generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals.

Less THAN SIGNIFICANT. The Project would generate solid waste during construction, operation, maintenance, and decommissioning. Riverside County must comply with the California Green Building Standards Code which includes mandatory recycling. Section 5.408 of the Code requires that 65 percent of the nonhazardous waste be recycled or salvaged for reuse. Section 5.408.3 (Excavated soil and land clearing debris) requires that 100 percent of trees, stumps, rocks, and associated vegetation and soils resulting from land clearing shall be reused or recycled.

The Project site consists of relatively flat topography. All required cut and fill soils associated with construction-related grading activities is anticipated to be approximately balanced; minimal import and export (to a landfill) would be necessary. Construction materials would be sorted on site throughout construction and transported to appropriate waste management facilities. Recyclable materials would be separated from non-recyclable items and stored until they could be transported to a designated recycling facility. It is anticipated that at least 20 percent of construction waste would be recyclable, and 50 percent of those materials would be recycled. Additionally, wooden construction waste (such as wood from wood pallets) would be sold, recycled, or chipped and composted.

Non-hazardous construction materials that cannot be reused or recycled would likely be disposed of at the county landfills. Hazardous waste and electronic waste would not be placed in a landfill, but rather would be transported to a hazardous waste handling facility (e.g., electronic-waste recycling). All contractors and workers would be educated about waste sorting, appropriate recycling storage areas, and how to reduce landfill waste.

Non-hazardous waste generated during Project operations would be limited to office uses associated with the proposed O&M building and include paper, aluminum, food, and plastic and would be managed similarly to during construction with non-hazardous items being recycled where possible or otherwise disposed of at the municipal county landfills.

The closest landfill to the Project area is the Desert Center Sanitary Landfill, with a remaining capacity of 127,414 cubic yards. It is estimated to operate until year 2041 (CalRecycle, 2023b). The other nearest landfill: Blythe Sanitary Landfill has over 3.8 million cubic yards of capacity remaining. The Project would comply with applicable federal, State, and local regulations related to solid waste and sufficient capacity is anticipated at the three nearest waste disposal sites. The Project would not generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. Overall, impacts related to solid waste would be less than significant and no mitigation would be required.

Mitigation Measures for Impact PSU-4

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

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3.16.6. Cumulative Impacts

Geographic Scope

The geographic scope of the cumulative impacts analysis includes the service areas of each of the providers serving the proposed Project. This geographic scope would include all projects listed in Tables 3.1-1 and 3.1-2. The proposed Project and other development projects in the cumulative scenario, together, could increase demand for public services and utilities in eastern Riverside County due to increases in workers within the area during construction; this has the potential to result in a significant-cumulative impacts to public services and utilities. If adopted, the proposed expansion of Joshua Tree National Park and creation of Chuckwalla National Monument would re-designate existing federal lands in the Project vicinity but would not create physical changes in the environment that would affect public services and utilities or contribute to cumulative impacts.

Fire Protection, Law Enforcement, and Health Services

Construction of present and reasonably foreseeable future projects may overlap with construction of the Project. The other present and reasonably foreseeable cumulative projects that fall within the geographic scope for fire and law enforcement services are primarily made up of energy projects, including utilityscale solar and electric transmission projects. The greatest potential for fires and fire hazards would exist at these sites during construction because the on-site workforce would be at its peak, which would create human presence-related hazards, including with the variety of equipment used that could create sparks or other potential fire hazards. The combined effects of the increased cumulative demand for fire, law enforcement, and emergency medical services from the cumulative projects within the geographic scope of analysis could result in a significant cumulative impact. However, T the implementation of the Projectspecific Fire Management and Prevention Plan would reduce the Project-related demand for fire, law enforcement, and emergency medical services from construction, such that the residual demand would not exceed established service ratios or require new or physically altered facilities, the construction of which could cause environmental impacts. Other projects would be required to comply with similar standards and regulations to reduce the potential for fire risks. The incremental effects of the Project and cumulative projects would therefore be reduced to a less-than-significant level. The incremental effects of the proposed Project from up to 10 permanent staff during operations would also not be cumulatively considerable because the very low number of workers would also not lead to the exceedance of established service ratios or require new or physically altered facilities. Therefore, cumulative construction-related impacts would be less than significant, and Project construction would not make a considerable contribution to cumulative impacts on fire, law enforcement, and emergency medical services.

Cumulative operational and maintenance-related impacts to public services including fire, hazardous materials handling, and medical resources and facilities related to the Project-would be less than related demands during construction and would not result in a considerable contribution to significant cumulative impacts due to the low number of employees required to support projects in the cumulative scenario.

At the end of the 30 to 50-year operational period of the proposed Project, the components would be decommissioned and deconstructed; the site would be restored to its pre-solar facility conditions and made available for agricultural use. Similar to construction (but to a lesser degree), the greatest potential need for public services would be associated with fire hazards. Fire hazards would be greatest during this time because the on-site workforce would be at its peak which could create a potential demand for fire and police services. Under cumulative conditions, implementation of the Project in the context of past projects and in conjunction with development of projects listed in Tables 3.1-1 and 3.1-2 are not anticipated to cause a demand on public services or utilities such that the construction of new or physical alteration of existing facilities would be required because the payment of development fees now and into the future is expected to substantially offset the public service-related demands of currently proposed and reasonably foreseeable future projects. Therefore, no significant adverse cumulative impact would result.

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Schools and Libraries

Due to the temporary nature of construction, it is not likely that any of the workers and their families for any of the cumulative projects would relocate to the area. Any potential impact to schools and libraries from the minimal number of operations personnel for each solar project would be negligible especially as the workers would be sourced from local communities and would likely commute. There would be no significant cumulative impact to schools or public libraries.

Utilities

Cumulative operational impacts to utilities would not be <u>cumulatively considerablesignificant</u>. The proposed Project would utilize an on-site or off-site groundwater well or water trucked from an offsite water purveyor and would not generate wastewater. <u>See Section 3.11.6 regarding cumulative groundwater impacts.</u> There is no potential for the Project to contribute to cumulative impacts to water or wastewater systems. In addition, due to the existing and remaining capacity at existing landfills, the Project's incremental solid waste-related impact during construction and operation, when combined with the contributions of past, other present, and reasonably foreseeable future projects would not <u>be cumulatively considerableresult in significant cumulative impacts</u>.

Mitigation Measures for Cumulative Impacts

No mitigation would be required.

Significance After Mitigation

<u>Cumulative impacts would be less than significant.</u> The Project's incremental contribution to impacts to public services and utilities would not be cumulatively considerable.

3.16.7. Mitigation Measures

No mitigation measures are required.

3.17. Recreation

This section describes the environmental setting and regulatory framework for recreational resources near the proposed Project. The study area for the recreation includes recreational areas and opportunities within 20 miles of the Project site. This is an appropriate study area for recreation because it captures all major recreation resources that contribute to baseline conditions and could be affected by activities related to the Project. An impact analysis and comparison of project alternatives is included in Section 5.

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3.17.1. Environmental Setting

The Project site consists of both private and BLM land. The site is in eastern Riverside County surrounded primarily by BLM land with some scattered rural residences and farms. In the Desert Renewable Energy Conservation Plan (DRECP) Land Use Plan Amendment, the BLM-administered portions of the site are designated as a Development Focus Area (DFA), which is an area suitable for renewable energy project development. BLM land has traditionally been used for a range of recreation activities such as hiking, horseback riding, rockhounding, noncompetitive vehicle touring, and other events on "designated open" routes of travel. Additionally, the Project is near the Joshua Tree National Park.

3.17.1.1. Regional Recreation Areas and Opportunities

The Project is in the Desert Center area in the Chuckwalla Valley. Desert Center has no community parks and there are no regional or State parks in the Chuckwalla Valley. Lake Tamarisk Desert Resort (LTDR), located 2 miles north of Desert Center and immediately south and west of the Project, is a 55 member-owned community for active seniors with 150 mobile homes spaces, mobile home rentals, heated pool, and club house. LTDR has a 9-hole county golf course as well. The Chuckwalla Valley Raceway is located approximately 1 mile east of the Project and State Route 177 (SR-177) on private land. It was built in 2010 on over 1,100 acres, and has a 17-turn, 2.68-mile track for beginner to experienced racers. It also includes an area for camping and has 40 cabins and a private airport.

Locally, residents and visitors use the public and private lands around the LTDR community for informal recreation, including wildlife viewing, hiking, and all-terrain vehicle (ATV) use. The land around and near LTDR is mostly under BLM administration. Much of the BLM-administered land west of Kaiser Road and LTDR is protected desert tortoise habitat and is open land. East of Kaiser Road, extensive tracts of BLM lands have been designated as Development Focus Areas (DFAs) and are suitable for development of renewable energy projects. Certain conservation and management actions (CMAs) apply to projects in DFAs in order to protect valued resources. Implementation of CMAs results in portions of a Project site remaining open and accessible; areas with solar arrays and other Project facilities are fenced.

Within a 20-mile radius around the Project, the BLM administers wilderness areas; campgrounds, including long-term visitor areas; trails; interpretive sites; and an extensive network of backcountry-approved travel and off-highway vehicle (OHV) routes near the Project.

A coalition of environmental and community groups known as the Protect California Deserts campaign is proposing a new national monument south of Joshua Tree National Park, and south and west of the Project area outside of the DRECP DFA lands. While early in the process, if approved, the proposed "Chuckwalla National Monument" would recognize the area's recreational and cultural significance and would encompass nearly 700,000 acres in both Riverside and Imperial counties. National monument status would require either a vote by Congress or a presidential designation under the Antiquities Act (Rode, 2023).

Much of the recreation activity occurs in the Chuckwalla Special Recreation Management Area (SRMA) located immediately south of Interstate 10 (I-10), which is its northern boundary. The SRMA extends approximately 15 miles south from I-10 and approximately 10 miles west and 22 miles east of Desert Center. The SRMA includes large sections of the Chuckwalla Mountains and Chuckwalla Valley. BLMadministered Areas of Critical Environmental Concern (ACECs) and BLM and NPS wilderness areas provide dispersed recreation opportunities in the region. In general, recreation use on BLM lands in the California desert is limited to the cooler months of September through May, with little use in the summer.

7-9

According to the BLM Recreation Management Information System (RMiS) Report 23(c) for the Palm Springs-South Coast Field Office, for the year October 1, 2019, through September 30, 2020, the Eastern Riverside County Recreation Management Area had 402,313 visitor days,³⁷ with most occurring as dispersed use. The Corn Springs campground (approximately 8 miles south of the Project) saw 6,946 visitor days, while the Desert Lily Preserve (approximately 3.3 miles east of the nearest Project elements) had 1,917 visitor days (BLM 2020). The most attractive recreational area in the region is Joshua Tree National Park, with the closest boundary approximately 4 miles from the Project site. The main recreational users of the Project Area and vicinity are local residents from Desert Center and Blythe, or visitors stopping for short periods while traveling on I-10 (BLM, 2018).

Recreation areas within 20 miles of the Project site are identified in Table 3.17-1 and discussed below. This information was adapted from the Palen Solar Project environmental review (BLM, 2018, updated with information on the BLM home website, visit menu (BLM 2023).

Recreation Area	Direction from Project Site	Approx. Distance from Project Site (miles)	Approximate Size (acres)	Status		
Chuckwalla Special Recreation Management Area	south	2	228,480	Designated in the DRECP		
Palen-Ford Playa Dunes ACEC	east	3	41,370	Designated in the DRECP		
Chuckwalla Desert Wildlife Management Area ACEC	south	2	514,400	Expanded under the DRECP		
Palen Dry Lake ACEC	southeast	11	3,630	Designated		
Chuckwalla Mountains Wilderness	south	3	112,326	Designated		
Palen-McCoy Wilderness	east	12	259,009	Designated		
Corn Springs ACEC	south	7	2,470	Designated		
Alligator Rock ACEC	south	1.5	7,750	Designated		
Desert Lily Preserve ACEC	east	2	2,060	Designated		
Joshua Tree National Park	northeast	3	1,017,750	Designated		
Joshua Tree Wilderness	northeast	3	549,500	Designated		
Corn Springs Campground	southeast	7.6	9 camping units	Designated		
Bradshaw Trail Back Country Byway	south	17	65 miles	Designated		
Source: BLM, 2018, BLM 2023.						

Table 3.17-1.	Recreation Areas and Special D	esignations with Recreational	Opportunities
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Source: Blivi, 2018, Blivi 2023.

³⁷ A visitor day is defined as 12 visitor hours. A visitor hour is a unit of measure of the presence of one or more persons in an area for continuous, intermittent, or simultaneous periods totaling one hour (i.e., one person for one hour, two people for 30 minutes each; or 10 people for 6 minutes each).

Joshua Tree National Park

The National Park Service administers the Joshua Tree National Park (Park). The southeast end of the Park is located about 3 miles northeast of the Project. The Park comprises nearly 800,00 acres, mostly federally administered, and is used for hiking, mountain biking, and rock climbing, and includes nine campgrounds. Other recreational activities include wildflower viewing and birdwatching. The eastern part of the park, closest to the Project, is noted for its dark skies that draw stargazers and amateur astronomers, and the Park has been designated as an International Dark Sky Park by the International Dark Sky Association. The Park is open year-round, with peak visitation occurring from October through May. Over 3 million people visited the Park in 2021 (NPS, 2023).

7-9

Wilderness Areas

The Wilderness Act limits recreation on wilderness lands to those that are primitive and unconfined, depend on a wilderness setting, and do not degrade the wilderness character of the area. Motorized or mechanized vehicles or equipment for recreational purposes are not permitted in wilderness (916 USC 1133(c)). The BLM regulates such recreation on lands within its jurisdiction in accordance with the policies, procedures and technologies set forth in the Code of Federal Regulations (43 CFR 6300), BLM Manual 6340 (*Management of Designated Wilderness Areas*), and BLM's Principles for Wilderness Management in the California Desert.

Four wilderness areas are located within 20 miles of the Project site: the Chuckwalla Mountains Wilderness, Palen-McCoy Wilderness, Joshua Tree Wilderness, and Little Chuckwalla Mountains Wilderness. They have no developed trails, parking/trailheads, or other visitor use facilities. These areas are generally steep, rugged mountains, with no permanent natural water sources, thus limiting extensive hiking or backpacking opportunities. Visitor use within the wilderness areas is very light although the BLM has no visitor use counts. Five nearby mountain peaks are occasionally used by the Desert Peaks Section of the Sierra Club's Angeles Chapter (BLM, 2018). None of the peaks directly overlook the Project site, although the site may be visible from certain peaks, depending on elevation and topography.

Observations by staff and Law Enforcement Rangers indicate only 100 to 200 hikers per year within all the wilderness areas near the Project site. More popular is vehicle camping along roads that are adjacent to the wilderness areas. RV camping near wilderness areas, with associated hiking, OHV use, photography, sightseeing, etc., accounts for up to 2,000 visitors per year (BLM, 2018).

Areas of Critical Environmental Concern

Seven ACECs are located near the Project site: Chuckwalla Desert Wildlife Management Area ACEC, Palen Dry Lake ACEC, Corn Springs ACEC, Alligator Rock ACEC, Desert Lily Preserve ACEC, and Chuckwalla Valley Dune Thicket ACEC. The Palen-Ford Playa Dunes ACEC was most recently designated in the DRECP. Recreation activities allowed in ACECs are determined by the resources and values for which the ACECs were established, and by the associated ACEC Management Plan. Most ACECs allow low-intensity recreation that is compatible with protection of the relevant values (BLM, 2015).

The Alligator Rock ACEC and the Corn Springs ACEC primarily protect cultural resources. The Chuckwalla Desert Wildlife Management Area (DWMA) and Desert Lily ACEC protect sensitive wildlife and plant species, while Chuckwalla Valley Dune Thicket and Palen Dry Lake ACECs protect both natural and cultural resources. The Palen-Ford Playa Dunes ACEC maintains the integrity of essential fringe-toed lizard habitat and essential ecological processes. Only the Corn Springs and the Palen-Ford Playa Dunes ACECs have recreation use facilities; however, they are signed to inform visitors of the special values of the areas and associated protection measures.

Long Term Visitor Areas

The BLM manages seven Long Term Visitor Areas (LTVAs), where camping is available from September 15 to April 15. A seasonal individual special recreation permit is required allowing visitors to stay in any of the six LTVAs in California or two LTVAs in Arizona: Imperial Dam LTVA near Yuma and La Posa LTVA near Quartzsite. In California, camping is allowed in the LTVA between April 16 and September 14 at no cost with the standard 14-day camping limit. Mule Mountains LTVA is 2,805 acres, an estimated 35 miles east of the Project, and includes the Wiley's Well and Coon Hollow campgrounds. Mule Mountains LTVA received 20,537 visits in 2015-2016 (BLM, 2018). Midland LTVA is 135 acres, an estimated 47 miles east of the Project site, and received 17,964 visits in 2015-2016 (BLM, 2018).

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Special Recreation Management Areas

A SRMA is an administrative unit where the existing or proposed recreation opportunities and recreation setting characteristics are recognized for their unique value, importance, or distinctiveness, especially compared to other areas used for recreation. SRMAs are units of public land identified for directing available recreation funding and personnel to specific, structured recreation opportunities. They are managed to protect and enhance a targeted set of activities, experiences, benefits, and desired recreation.

The DRECP LUPA has designated one SRMA south of the Project site on the south side of the I-10, the Chuckwalla SRMA. This area is to provide opportunities for area residents, visitors, and commercial recreation providers to engage in motorized and non-motorized recreation activities that are compatible with recovery efforts for the desert tortoise and other resource values. The primary activities for the Chuckwalla SRMA are motorized recreation touring and other recreational activities that rely on motorized vehicles to access public lands.

The Bradshaw Trail

The Bradshaw Trail is a 70-mile Back Country Byway in southeastern Riverside County, with a small segment in Imperial County. This east-west trail is located about 18 miles south of the Project site and extends from about 12 miles east of the community of North Shore near the Salton Sea State Recreation Area to about 14 miles southwest of Blythe near the Colorado River.

The Bradshaw Trail was the first road through Riverside County, blazed by William Bradshaw in 1862 as an overland stage route beginning in San Bernardino, California, and ending at Ehrenberg, Arizona. The trail was used extensively between 1862 and 1877 to transport miners and passengers. The trail is a dirt road that traverses mostly public land between the Chuckwalla Mountains and the Chocolate Mountain Aerial Gunnery Range. Four-wheel-drive vehicles are recommended due to stretches of soft sand. Recreational opportunities along the Bradshaw Trail include four-wheel driving, wildlife viewing, plant viewing, birdwatching, and scenic drives. All commercial activities require a land use or special recreation permit from the BLM. Fourteen-day camping limits apply on public lands.

Off-Highway Vehicle Routes

The California Desert Conservation Area (CDCA) Plan and Northern and Eastern Colorado Desert Coordinated Management (NECO) Plan Amendment state that vehicle access is among the most important recreation issues in the desert. A primary consideration of the recreation program is to ensure that access routes necessary for recreation enjoyment are provided. Under the CDCA Plan, as amended, BLM-administered public lands within the CDCA are designated as Open, Limited, or Closed. Within Open areas, motorized vehicles may travel anywhere; in Closed areas, such travel is prohibited. While there are no BLM-designated Open OHV areas in Riverside County, there are Open Routes suitable for OHV travel. In Limited areas, motorized-vehicle access is allowed only on certain routes of travel, defined to include roads, ways, trails, and washes. The DRECP LUPA does not change the status of the routes within the Project area (BLM, 2015).

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The BLM defines OHV routes as follows (BLM, 2018):

- Open Route: Access by all types of motorized vehicles is allowed generally without restriction.
- *Limited Route:* Access by motorized vehicles is allowed, subject to limitations on the number and types of vehicles allowed and restrictions on time or season and speed limits.
- Closed Route: Access by motorized vehicles is prohibited except for certain official, emergency, or otherwise authorized vehicles.

A route has high significance if it provides access to other routes, historical sites, or recreational areas such as the backcountry driving, photography, camping, rock hounding, and hiking opportunities in eastern Riverside County.

The Desert Center region has several OHV Open Routes. The BLM has no traffic counters or other means to determine accurate usership numbers of routes in the vicinity of the Project. Observations by BLM staff and Law Enforcement Rangers report that use is relatively low on routes within the vicinity of the Project site, not exceeding 300 visits per year (BLM, 2018). Recreation and vehicle use generally is limited to the cooler months of September through May. Use is nearly non-existent during the summer.

Washes Open Zones

Under the NECO Plan, all Multiple-use Class – Moderate Use (MUC-M) areas are considered "washes open zones" unless specifically designated Limited or Closed. The use of washes within "washes open zones" is restricted to those considered "navigable," unless it is determined that vehicle use must be further limited. Navigable washes in "washes open zones" are designated "Open" as a class, that is, washes are not individually designated unless they are identified as specific routes in the NECO route inventory. In this context, the term "wash" is defined as a watercourse, either dry or with running or standing water, which by its physical nature, width, soil, slope, topography, vegetative cover, etc., permits the passage of motorized vehicles, thereby establishing its navigability (BLM, 2018).

The BLM has not inventoried or analyzed specific washes in the Project area as to their navigability, but by the above definition, all or portions of washes in the Desert Center area may be considered navigable. As is the case with designated routes, the BLM has no means to determine accurate use of "open wash zones" in the vicinity of the Project.

3.17.1.2. Solar Facility

None of the existing solar facility sites are used for recreation as they are all previously farmed parcels or undeveloped desert. However, much of the surrounding region is used for recreation as described above.

OHV routes cannot be officially designated on private land, but some routes cross private land and may be used by recreationists. Four designated BLM Open Routes are on or near the Project site: DC322; DC533; DC536-1; and DC540.

3.17.1.3. 500 kV Generation-Tie Line

The gen-tie line would be located on almost entirely BLM-administered land through the Oberon Renewable Energy Project site, which began commercial operation in fall 2023. The land is designated as a DFA (meaning not designated for recreation). The gen-tie line would connect to the Oberon substation <u>Switchyard</u> within the Oberon Renewable Energy Project site.

3.17.2. Regulatory Framework

3.17.2.1. Federal Laws, Regulations, and Policies

Wilderness Act of 1964. The Wilderness Act, signed into law in 1964, created the National Wilderness Preservation System and defined wilderness as "an area of undeveloped Federal land retaining its primeval character and influence without permanent improvements or human habitation, which is protected and managed so as to preserve its natural conditions...."

Designated wilderness is the highest level of conservation protection for federal lands. Only Congress may designate wilderness or change the status of wilderness areas. Wilderness areas are designated within existing federal public land. Congress has directed four federal land management agencies — U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service, and National Park Service — to manage wilderness areas to preserve and, where possible, to restore their wilderness character.

The Wilderness Act prohibits permanent roads and commercial enterprises, except commercial services that may provide for recreational or other purposes of the Wilderness Act. Wilderness areas generally do not allow motorized equipment, motor vehicles, mechanical transport, temporary roads, permanent structures or installations (with exceptions in Alaska). Wilderness areas are to be primarily affected by the forces of nature, though the Wilderness Act does acknowledge the need to provide for human health and safety, protect private property, control insect infestations, and fight fires within the area. Wilderness areas are managed under the direction of the Wilderness Act, subsequent legislation (such as the Alaska National Interest Lands Conservation Act), and agency policy.

Federal Land Policy and Management Act (FLPMA). FLPMA recognizes the value of public lands and includes the multiple use/sustained yield framework for management to provide for outdoor recreation for future generations. Title VI of FLPMA, *Designated Management Areas, California Desert Conservation Area,* acknowledges the recreational resources contained within the California desert environment and directs the BLM to develop a multiple use and sustained yield management plan to conserve the desert's resources, particularly recreational use. The solar facility site is governed by these pieces of legislation, and its various alternatives would impact the recreational opportunities available in the vicinity.

California Desert Conservation Area (CDCA) Plan. The CDCA Plan establishes goals for management of recreation in the California Desert (BLM, 1999). As with the FLPMA, recreational opportunities in the study area are framed by the CDCA Plan. The goals are to provide for the use of the public lands and resources of the CDCA, including recreational uses, in a manner that enhances wherever possible — and that does not diminish — the environmental, cultural, and aesthetic values of the desert (BLM, 1999). The goals of the Recreation Element of the plan are to:

- Provide for a wide range of quality recreation opportunities and experiences emphasizing dispersed undeveloped use;
- Provide a minimum of recreation facilities. Those facilities should emphasize resource protection and visitor safety;
- Manage recreation use to minimize user conflicts, provide a safe recreation environment, and protect desert resources;
- Emphasize the use of public information and education techniques to increase public awareness, enjoyment, and sensitivity to desert resources;
- Adjust management approach to accommodate changing visitor use patterns and preferences;
- Encourage the use and enjoyment of desert recreation opportunities by special populations, and provide facilities to meet the needs of those groups; and

 Provide for off-road vehicle recreation use where appropriate in conformance with FLPMA, Section 601, and Executive Orders 11644 and 11989.

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ACECs are also identified as special management areas in the CDCA Plan. These include areas where special management attention is required to protect important historic, cultural, scenic, biological, or other natural resources.

The CDCA Plan also contains a motorized-vehicle access element, which provides a system and a set of rules that governs access to the CDCA by motor vehicles. The rules include providing for constrained motor-vehicle access, while protecting desert resources (BLM, 1999). When the CDCA Plan was first adopted, the BLM designated a network of motorized vehicle routes on public lands within the northern and eastern Mojave Desert. The BLM designated routes for north-central and southern portions of the CDCA. The BLM manages OHV use so that the conditions of special-status species and other natural and cultural resources are maintained.

Northern and Eastern Colorado Desert Coordinated Management Plan. The NECO Plan, an amendment to the CDCA Plan, provides for management of recreation within the California Desert area of El Centro, Blythe, Needles, and cities in the Coachella Valley (BLM, 2002). The NECO Plan specifies the types of recreational activities allowed in Multiple-Use Classes on BLM-administered land. Under this plan, all routes outside closed and OHV open areas are designated as Open, Closed, or Limited. The NECO plan includes an off-highway vehicles (OHV) route inventory and designated routes of travel (approximately 95 percent of existing routes remained available for vehicle access under the plan). Open Routes through the solar facility area include DC 322, 533, 536-1, and 540. Special Recreation Permits (SRPs) are authorizations that allow for recreational uses of the public lands and related waters. They are issued as a means to control visitor use, protect recreational and natural resources, and provide for the health and safety of visitors.

Desert Renewable Energy Conservation Plan. The BLM published the Land Use Plan Amendment (LUPA) and Final EIS for the DRECP in November 2015. The DRECP amended the CDCA Plan with the signing of the Record of Decision in September of 2016. It designates SRMAs and Extensive Recreation Management Areas within the California Desert, including the study area (BLM, 2015). The DRECP includes additional conservation management actions for recreation that dictate the types of activities allowed near certain recreational features.

Off-Road Vehicles (43 CFR § 8340, et seq.) This regulation establishes criteria for designating public lands as open, limited, or closed to the use of OHVs and for establishing controls governing the use and operation of OHVs in such areas, while protecting resources, promoting safety, and minimizing user conflicts. Recreational use under Title VI "includes the use, where appropriate, of off-road recreational vehicles."

3.17.2.2. State Laws, Regulations, and Policies

No State law, regulations, or policies were identified pertaining to recreation at or near the Project site.

3.17.2.3. Local Laws, Regulations, and Policies

Riverside County General Plan, and Desert Center Area Plan (DCAP). The Riverside County General Plan includes policy area locations, such as for Desert Center, that have a separate Area Plan for future development and growth. The Project falls within the DCAP, which is part of the General Plan. Under the DCAP, the Open Space Recreation designation is applied to the golf course at Lake Tamarisk. No other land under County jurisdiction in the Project area is designated for recreation. Local land use designations do not apply to the BLM land, but FLPMA requires the BLM to coordinate with local governments in land use planning in Title II, Section 202, (b)(9).

3.17.3. Methodology for Analysis

This section analyzes potential effects of the proposed Project related to recreation and assesses the impacts to known recreational uses. For the Project, this includes the use of Open Routes on or near the Project site. The CDCA Plan and NECO Plan Amendment, which includes a detailed inventory and designation of Open Routes for motorized-vehicle use, were reviewed to determine impacts to Open Routes.

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3.17.4. CEQA Significance Criteria

The criteria used to determine the significance of potential recreation impacts are based on Appendix G of the State CEQA Guidelines. The proposed Project would result in a significant impact under CEQA related to recreation if the Project would:

Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated (see Impact REC-1).

The following CEQA significance criterion from Appendix G was not included in the analysis:

 Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment.

The proposed Project does not include recreational facilities nor require the construction or expansion of recreational facilities.

The County of Riverside's Environmental Assessment Form includes two additional significance criteria not in the CEQA Guidelines. They are:

- Located within a Community Service Area (CSA) or recreation and park district with a Community Parks and Recreation Plan (Quimby fees).
- Include the construction or expansion of a trail system.

The proposed Project site is located in unincorporated Riverside County and is adjacent to but not within Community Service Area No. 51. County CSAs collect special taxes and assessments to provide services to specific areas of the County. CSA 51 maintains the Lake Tamarisk Golf Course as well as a tot lot. The Project would not be located in a recreation and park district with a Community Parks and Recreation Plan. The Project would not include construction or expansion of a trail system. Therefore, the two above criteria related to recreation in the County's Environmental Assessment Form were not included in the analysis.

3.17.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to recreation. Public concerns regarding recreation identified during the scoping process included concerns about the lower quality and decrease in availability of recreation due to: heat and wind and the presence of solar developments; preventing access for OHVs, hiking, or other recreational activities; and a decrease in the scenic value of the region.

Several commentors have stated that the Lake Tamarisk community has invested in equipment for recreational use in the desert, such as OHVs. Some commentors suggested allowing passages through Project to allow for easier access to recreational areas for OHV use and hiking. These comments are addressed within the impact analysis provided below.

Impact REC-1. Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated.

Solar and BESS Facility

LESS THAN SIGNIFICANT. The solar and energy storage facility is on BLM-administered land and on private land that was previously used for agriculture or undeveloped desert. Except for BLM Open Routes, there are no designated recreational uses of the land. However, the land is largely open and unoccupied and may be visited by hikers, birdwatchers, and others. Except as explained below for BLM Open Routes, the Project would have no direct impact that would result in the loss of designated recreational space or increase in the use of other recreational facilities.

BLM Open Route DC322 extends northwest through the Project site beginning at the west side of SR-177. It crosses both BLM and private land and continues northwest of the Project. Fenced solar panel arrays would be installed north and south of this route as it traverses the Project site, but it would remain open. It continues north and west from the Project site.

BLM Open Route DC533 is just north of the Project that extends east from BLM Open Route DC322 and would not be affected by the Project.

BLM Open Route DC540 extends from SR-177 east to the Chuckwalla Valley Raceway and airport and is adjacent to the easternmost array of solar panels near SR-177 but would be outside the fence line and remain open.

BLM Open Route DC536-1 extends northwest from SR-177 to BLM Open Route DC322, where it terminates. It traverses the Project site and is parallel to and approximately 0.8 miles north of BLM Open Route DC322. BLM Open Route DC536-1 is only partially on BLM-administered land. It would be blocked by fenced solar arrays in two locations. However, existing undesignated routes outside of the Project fence connect BLM Open Route DC 536-1 to DC322.

BLM Open Route DC536-1 is the only Open Route that would be blocked by the Project, which would install solar arrays within a fenced area across the route. However, BLM Open Route DC322, which parallels BLM Open Route DC536-1 would remain open, providing OHV access from SR-177 to BLM-administered lands west and north of the Project.

BLM Open Route DC536-1 is a short route (approximately 2.5 miles) that connects SR-177 and BLM Open Route DC533, as does the unaffected parallel route BLM Open Route DC322 to the south. Based on aerial imagery, BLM Open Route DC536-1 does not appear to be frequently used as it is difficult to find on the images. The route does not lead to a specific recreation destination, is not heavily used, is in an area with an alternative route (BLM Open Route DC322) nearby. BLM Open Route DC536-1 could remain accessible via an undesignated route visible on aerial imagery extending north from BLM Open Route DC322 outside the Project fence. The loss of approximately 1.2 miles of BLM Open Route DC536-1 would not be expected to result in a substantial use of other routes compared with current practice. The impact would be less than significant.

Indirect effects to recreational users of specially designated lands (including the Special Recreation Management Area, wilderness areas and ACECs, the Joshua Tree National Park) could occur due to the distant views of the construction work and dust. The wilderness areas and ACECs do not have maintained trails or trailheads and have a low number of public visitors. While the Joshua Tree National Park receives hundreds of thousands of visitors annually, the location closest to the Project is less heavily visited because of the difficulties in reaching that area. Recreational users could be affected by construction, operation and decommissioning activities of the Project such as construction noise, fugitive dust, vehicle movement, and other "non-natural" construction activities. During operation, the visual change at the site could affect visitors seeking experiences in a natural setting. Night lighting for the solar PV Project is expected to be minimal, so little detrimental effect to night skies and star gazing would be anticipated. The area is used for military training flights. If aviation safety lighting is installed on any gen-tie line poles, the lighting would be infrared, and thus, would not be visible to the human eye and would not detract from the dark night sky for which the region is noted. Project decommissioning impacts would be the same as those described for Project construction. Upon the completion of decommissioning, the site would be returned to its pre-Project conditions or as agreed to by the landowner, and BLM may choose to reopen the affected BLM Open Routes across public lands.

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Overall, these impacts could affect users' perception of solitude, naturalness, and unconfined recreation. While the Project would result in indirect impacts to recreation, it is not anticipated that the Project would result in a significant change in use of the nearby recreation facilities that would increase the use of other regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated. Therefore, the impact would be less than significant. The associated indirect impacts are addressed in Sections 3.13 (Noise and Vibration), 3.4 (Air Quality), 3.18 (Traffic), and 3.2 (Aesthetics).

500 kV Generation-Tie Line

LESS THAN SIGNIFICANT. The gen-tie line would be on BLM-administered land designated as a Development Focus Area and would traverse the adjacent Oberon Renewable Energy Project in an existing transmission corridor not designated for recreation. The gen-tie line would not result in direct loss of recreation, nor would it result in permanent impacts to designated OHV routes. While it would introduce a new 500 kV transmission line and may temporarily close BLM Open Route DC379 in the corridor, the associated construction would be of short duration. Impacts to recreation due to the gen-tie line would be less than significant.

Mitigation Measures for Impact REC-1

No mitigation would be required.

Significance After Mitigation

This impact would be less than significant.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.17.6. Cumulative Impacts

Geographic Scope

The cumulative geographic scope for recreation is the Desert Center region because the direct and indirect impacts to recreation would be additive within this area in that they could result in direct loss of recreation and indirect impacts to the same resources. Within this area there are existing utility-scale solar facilities (Desert Sunlight, Desert Harvest, Athos, Palen, and Oberon) as well as projects under construction (Victory Pass and Arica). Additional projects are under review (Sapphire, Eagle Mountain Pumped Storage, Redonda Solar, and Skybridge). See Tables 3.11 and 3.12. While other existing or proposed projects would add to the cumulative recreation impacts, the solar facilities would be the largest contributors.

Cumulative Impact Analysis

The cumulative solar projects would result in similar impacts to recreation as those described for the proposed Project in that they would affect Open Routes available to OHV users. However, each project is located either on private land or on BLM-administered land designated as development focus area under the DRECP LUPA. While some of the BLM-administered land may be used for recreation, the direct loss of recreational lands would be minimal compared with the land available for recreation in the region, most notably south of I-10.

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If adopted, the proposed expansion of Joshua Tree National Park and creation of Chuckwalla National Monument would re-designate existing federal lands in the Project vicinity but could increase recreational visitation in these areas. Such visitation could create physical changes in the environment that would contribute to potential cumulative impacts; however, such impacts would be less than those that would be associated with potential development that is avoided.

If all the solar projects were developed, loss of the local Desert Center OHV routes would be significant substantial because many routes would be closed. However, extensive OHV recreational opportunities would continue to exist in the surrounding area, including within the SRMA south of I-10, thus ensuring that cumulative impacts related to the loss of OHV routes would not be significant. Tthe Easley Project's contribution to the cumulative loss of OHV routes this less-than-significant impact would not be cumulatively considerable because the Project would only result in the partial closure of only one route, would be partially closed and would-be users of that trail would have alternative access to a nearby Open Route. None of the routes in the Project site connect to specific recreation areas.

If all the solar projects were developed in the Chuckwalla Valley area, they would substantially change the region and the vistas from nearby recreational facilities that are prized for their isolation, especially wilderness areas. Recreationists looking for solitary experiences would potentially look for other areas to recreate which would increase, thereby increasing the use of these parks or wilderness areas. However, because of the large amount of wilderness and solitary recreational areas in Eastern Riverside County and in the California desert and the limited use of the recreational areas near the Project, it is unlikely that recreationists who leave the Desert Center area for elsewhere in California would <u>noticeably</u> increase the use of such other areas such that substantial physical deterioration of the region would occur or be accelerated. The recreational users in the Project vicinity are likely to visit nearby extensive recreational areas such as the BLM lands south of I-10. Therefore, there would not be a significant cumulative impact in the region and the proposed Project would not make a considerable contribution to cumulative impacts.

Mitigation Measures for Cumulative Impacts

No mitigation would be required.

Significance After Mitigation

This impact<u>Cumulative impacts</u> would be less than significant. <u>The Project's incremental contribution to</u> recreation impacts would not be cumulatively considerable.

3.17.7. Mitigation Measures

Impacts would be less than significant, and no mitigation would be required.

3.18. Traffic and Transportation

This section describes the environmental setting and regulatory framework with respect to traffic and transportation for the proposed Project, including applicable plans, policies, and regulations. Because the Project site is in a remote area, materials would have to be brought to the site from long distances and many workers would have to commute from communities elsewhere in Riverside County and nearby counties. An impact analysis and comparison of project alternatives is included in Section 5.

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All Project-related traffic would use Interstate 10 (I-10) and State Route 177 (SR-177) for regional travel. The "Project area" or "study area" for the traffic and transportation analysis would be the existing roadways and intersections with the potential to experience a discernable increase in traffic volume during Project construction. Therefore, the study area for this analysis of traffic and transportation includes I-10, SR-177, and local roadways in the vicinity of the Project site.

A Transportation Impact Analysis for the Easley Project (David Evans and Associates, 2023) was prepared by David Evans and Associates to evaluate the potential transportation and traffic impacts of the Project with regard to congestion and is provided as Appendix H of this EIR.

3.18.1. Environmental Setting

The Project site is approximately 2 miles north of Desert Center in eastern Riverside County (refer to Figure 2-2). This site is north of I-10 and is situated primarily between SR-177 (Rice Road) on the east and County Route R2 (Kaiser Road) on the west. A small portion of the Project is east of SR-177, as is the Project's gentie line. It is anticipated that most construction workers would be drawn from the Blythe/Palo Verde Valley region, with additional workers coming from the Imperial Valley and the greater Riverside County region. Workers and delivery trucks would access the Project site using entrances from SR-177 (Rice Road) approved by the California Department of Transportation (Caltrans) from Kaiser Road (County Road R2) approved by and Riverside County. It is anticipated that the I-10 interchange with SR-177 at Desert Center (Exit 192) would experience a substantial increase in traffic volume during AM and PM peak hours, when vehicles would be using SR-177 and Kaiser Road to reach Project access points.

3.18.1.1. Regional and Local Roadway Facilities

Roads in the vicinity of the Project site are shown in Figure 3.18-1. Easley Project Roads and Access. In addition to the principal through roads (I-10, SR-177/Rice Road, and Kaiser Road) local roads potentially affected by traffic include Ragsdale Road, Oasis Road, and Orion Road. Site access would be from both Rice Road and Kaiser Road, as indicated in Figure 3.18-1 (located at the end of the Traffic and Transportation section). The final location and design of Project access driveways would be determined in consultation with Caltrans and Riverside County, respectively, which have jurisdiction over these roads.

Regional roadway facilities in the Project area include:

Interstate 10: 110 is a major east/west interstate freeway connecting Southern California to Phoenix, Arizona and destinations further east. 110 is a four-lane freeway with a Desert Center interchange near the Project site at SR177 (Rice Road). The posted speed limit on 110 is 70 mph. In 2020 110 carried roughly 28,000 average daily trips (ADT) with a peak hour ADT of approximately 3,400 at the I-10/SR-177 interchange.

State Route 177: SR-177 (Rice Road) is a north/south highway between Desert Center/I-10 and SR-62, approximately 25 miles northeast of Desert Center. SR-177 is a two-lane road, and the posted speed limit is 65 mph. In 2020, at its junction with I-10, Rice Road carried had approximately 2,900 ADT with a peak hour ADT of 470.

Local roadways in the Project area include:

 Ragsdale Road: Ragsdale Road parallels the north side of I-10 in Desert Center and intersects with SR-177 (Rice Road) approximately 1,000 feet north of the freeway.

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- Kaiser Road (County R2): Kaiser Road is a local county road that extends north for its intersection with SR-177 (Rice Road) approximately 400 feet north of Ragsdale Road. Kaiser Road provides access the Lake Tamarisk community and continues north along the western boundary of the Project site. The road continues northwest to the community of Eagle Mountain, where it terminates.
- Oasis Road: Oasis Road is a short local road connecting Kaiser Road and Rice Road along the south side of the community of Lake Tamarisk.
- Orion Road: Orion Road is a local road extending west from Rice Road and provides access to properties east of Rice Road.

There are no signalized intersections in the Project vicinity. Except for a stop sign on Kaiser Road southbound at SR-177, neither Kaiser Road nor SR-177 (Rice Road) have stop signs in the Project vicinity. The other local roads have stop signs where they intersect with Rice Road and Kaiser Road. Some movements on local intersecting roads, including crossing the major roadway or turns onto the major road, can be subject to delays, depend on the amount of through traffic on the main roadway; however, on the major roads through traffic and right turns would not experience any delays at these intersections.

As noted, SR-177 and Kaiser Road each provide access to the Project site.

SR-177 (Rice Road). In the Project vicinity, northbound and southbound traffic on SR-177 is free flowing with no stop signs between the I-10 freeway and the Project site. Traffic exiting the I-10 freeway at the I-10/SR-177 interchange has stop signs at the top of the eastbound and westbound I-10 offramps; eastbound and westbound traffic from SR-177 onto the freeway has no stops. North of the freeway, SR-177 intersects Ragsdale Road, which has stop signs controlling traffic entering or crossing SR-177. This is also the case at the T-intersections of Kaiser Road and Oasis Road, respectively, with SR-177. Traffic on the intersecting roads has stop signs while SR-177 is through traffic.

Kaiser Road (County R2). Traveling north from the I-10 interchange, Kaiser Road is reached by a left turn from northbound SR-177. There are no stop signs for northbound traffic on Kaiser Road. Near Lake Tamarisk, Oasis Road has a stop sign at its T-intersection with Kaiser Road. Southbound on Kaiser Road from the Project site toward the freeway there is one stop sign where Kaiser Road ends in a T-intersection with SR-177. Here traffic going toward the freeway would make a right turn onto southbound SR-177.

3.18.1.2. Project Site Access

Access to the Project vicinity from both the east and west is primarily via I-10. Secondary regional access from the northeast is via SR-177 (Rice Road). Most of the Project is situated between a State Highway (SR-177) and a County Road (Kaiser Road) and therefore subject to Caltrans and County requirements respectively for encroachment on these roadway rights-of-ways (ROWs). Encroachment permits would be needed for ingress/egress driveways or installation of any overhead/underground lines in or across the ROWs. Among the factors considered when permitting access points are the geometry and spacing of proposed ingress/egress points relative to each other and other existing road features and characteristics, the volume and speed of traffic on the affected road, and the ability to make safe turning movements in and out of the adjacent property.

Figure 3.18-1 shows approximate access locations. However, the final location and design features of temporary and permanent driveways between the roads and the site would be determined in consultation with the responsible agency and in compliance with their requirements. The volume of traffic to and from

a particular access point would vary during the course of construction, depending on where within the site construction activities occur and the number of workers required by those activities.

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3.18.1.3. Public Transportation within the Project Vicinity

Pedestrian and Bicycle

Pedestrian facilities include sidewalks, crosswalks, curb ramps, pedestrian signals, and streetscape amenities. Pedestrian facilities currently do not exist in the Project study area. The existing pedestrian network does not currently provide sidewalks connecting adjoining land uses along SR-177 (Rice Road). No bicycle facilities (e.g., bicycle paths, lanes, or routes) currently exist in the area.

Public Transportation Service

The nearest public bus service is offered by the Palo Verde Valley Transit Agency, which serves the Blythe Area. Bus Route 6 travels along I-10 and serves the Desert Center Post Office once daily westbound and eastbound on Monday, Wednesday, and Friday (Palo Verde Valley Transit Agency, 2023).

Rail Service

There is no rail service in the vicinity of the Project. The Arizona and California Railroad runs from Cadiz, CA to Parker, AZ. A branch line that once served Blythe, California, has been abandoned.

Airports

Blythe Airport is the nearest public airport located approximately 40 miles east of the Project, serving Riverside County. The airport has two runways and is mostly used for general aviation, with an average 37 flights a day (AirNav, 2023a). Desert Center Airport is a private use airport owned by Chuckwalla Valley Associates. It is located approximately 1 mile east of SR-177 and the Project. Desert Center Airport has one runway and averaged less than 150 general aviation operations per year in 2006. Permission is required to land at this private use facility (AirNav, 2023b).

The Project site was compared to the military flight paths and airspace designations of the California Military Land Use Compatibility Analysis (CMLUCA) database. The site location is not within 4,000 feet of a military installation, within military special-use airspace, or beneath a military designated low-level flight path. Based on the CMLUCA, the Project site is located within military Visual Route (VR) flight paths (CMLUCA, 2023).

Impacts related to airports and aviation are addressed in Section 3.10, Hazards and Hazardous Materials.

3.18.2. Regulatory Framework

3.18.2.1. Federal Laws, Regulations, and Policies

CFR, Title 49, Subtitle B

This regulation includes procedures and regulations pertaining to interstate and intrastate transport (including hazardous materials program procedures) and provides safety measures for motor carriers and motor vehicles that operate on public highways.

3.18.2.2. State Laws, Regulations, and Policies

California Vehicle Code (CVC)

The CVC includes regulations pertaining to licensing, size, weight, and load of vehicles operated on highways; safe operation of vehicles; and the transportation of hazardous materials.

California Government Code

Sections 65352, 65404, 65940, and 65944, amended by Senate Bill 1462, requires local planning agencies to notify the military whenever a proposed development project or general plan amendment is located within 1,000 feet of a military installation, located within special use airspace, or is located beneath a low-level flight path.

California Department of Transportation

Local Development – Intergovernmental Review (LD-IGR). The Caltrans LD-IGR program uses the Transportation Impact Study Guide (TISG) during environmental review of land use projects and plans (Caltrans, 2020). The Caltrans LD-IGR program works with local jurisdictions early and throughout their land use planning and decision-making processes, consistent with the requirements of CEQA and state planning law. Caltrans seeks to reduce single occupancy vehicle trips, provide a safe transportation system, reduce per capita VMT (vehicle miles travelled), increase accessibility to destinations via cycling, walking, carpooling, and transit, and reduce GHG emissions. Those goals along with standard CEQA practice create the foundation of Caltrans review of proposed new land use projects.

The TISG replaces Caltrans' previous Traffic Impact Study Guidelines from 2002, which were based on vehicle delay and congestion. Based on the May 2020 TISG, for land use projects and plans, automobile delay is no longer considered a significant impact on the environment under CEQA per Senate Bill 743. Caltrans review of land use projects and plans is now based on a VMT metric, consistent with changes to the CEQA Guidelines (Cal. Code Regs. § 15064.3(b)(1)). This 2020 VMT-focused TISG provides a foundation for review of how lead agencies apply the VMT metric to CEQA project analysis.

As discussed later in Sections 3.18.5 through 3.18.8, the proposed Project would generate a large number of peak hour trips during construction. Most of these are worker vehicle trips. EIR Appendix H provides a transportation impact analysis prepared for the proposed Project. The analysis provided in Sections 3.18.5 through 3.18.8 compares the worst-case daily construction and operational trips against the existing volumes and capacities of study area roadways, including traffic volumes from other projects with construction and operation timelines overlapping that of the proposed Project.

3.18.2.3. Local Laws, Regulations, and Policies

Southern California Association of Governments

Connect SoCal – Regional Transportation Plan and Sustainable Communities Strategy (RTP/SCS). The 2020-2045 RTP/SCS Plan charts a path toward a more mobile, sustainable and prosperous region by making key connections: between transportation networks, between planning strategies and between the people. As part of the development of Connect SoCal, a set of ten high level goals were adopted. As requested by SCAG, the following presents a consistency analysis of the proposed Project with the ten Connect SoCal goals and demonstrates that the proposed Project would be consistent with the RTP/SCS Plan.³⁸

³⁸ Adopted Final Connect SoCal Plan Performance Measures. <u>https://scag.ca.gov/sites/main/files/file-attachments/fconnect socal performance-measures.pdf</u>.

1. Encourage regional economic prosperity and global competitiveness.

Consistency Analysis: Economic benefits, from the procurement of goods and services and worker wages, would occur both locally and regionally during Project construction and operation.

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2. Improve mobility, accessibility, reliability, and travel safety for people and goods.

Consistency Analysis: The proposed Project would have no effect on the mobility, accessibility, or reliability of the transportation network. With respect to safety, Mitigation Measure TRA-2 (Repair Roadways and Transportation Facilities Damaged by Construction Activities) is proposed to ensure any damage and deterioration attributed to the Project would be repaired.

3. Enhance the preservation, security, and resilience of the regional transportation system.

Consistency Analysis: The proposed Project would have no effect on security of the transportation network. With respect to preservation and resilience, Mitigation Measure TRA-2 (Repair Roadways and Transportation Facilities Damaged by Construction Activities) is proposed to ensure any damage and deterioration attributed to the Project would be repaired.

4. Increase person and goods throughput and travel choices within the transportation system.

Consistency Analysis: While the Project would not be transit-friendly, it would include Mitigation Measure TRA-1 (Construction Traffic Carpool and Trip Reduction Plan), which would encourage carpooling of construction workers. During operation of the proposed Project, up to 10 permanent staff periodically could be on the site for ongoing facility maintenance and repairs, which would not affect the transportation system.

5. Reduce greenhouse gas emissions and improve air quality.

Consistency Analysis: The proposed Project is a solar generation and energy storage facility, which would reduce greenhouse gas emissions and improve air quality by offsetting the need for conventional power generation.

6. Support healthy and equitable communities.

Consistency Analysis: The proposed Project is a solar generation and energy storage facility, which would reduce greenhouse gas emissions and improve air quality by offsetting the need for conventional power generation. Economic benefits, from the procurement of goods and services and worker wages, would occur both locally and regionally during Project construction and operation.

7. Adapt to a changing climate and support an integrated regional development pattern and transportation network.

Consistency Analysis: The proposed Project would have no effect on regional development patterns of the transportation network. The proposed Project is a solar energy facility, which would reduce greenhouse gas emissions and improve air quality by offsetting the need for conventional power generation.

8. Leverage new transportation technologies and data-driven solutions that result in more efficient travel.

Consistency Analysis: While the Project would not be transit-friendly, it would include Mitigation Measure TRA-1 (Construction Traffic Carpool and Trip Reduction Plan), which would encourage carpooling of construction workers.

9. Encourage development of diverse housing types in areas well supported by multiple transportation options.

Consistency Analysis: The proposed Project would have no effect on housing and transportation networks supporting them (see Section 3.14, Population and Housing).

10. Promote conservation of natural and agricultural lands and restoration of critical habitats.

Consistency Analysis: The proposed Project would have no effect on designated critical habitat or active/operational agricultural lands. The Project does affect undeveloped private lands that are disturbed from past agricultural operations and impacts to Agricultural Resources are discussed in Section 3.3. Potential impacts to habitat are discussed in Section 3.4 (Biological Resources).

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County of Riverside Congestion Management Plan

Riverside County's Congestion Management Plan (CMP) is part of the Riverside County Transportation Commission's (<u>RCTC</u>) Long Range Transportation Plan published in 2019. All state highways and principal arterials are CMP roadways. I-10 and SR177 are the only CMP roadways in the Project study area. Under the CMP all CMP roadways operate at a Level of Service (LOS) of "E" or better.

The <u>RCTCCMP</u>'s adopted minimum LOS threshold is LOS "E." Therefore, when a CMP street or highway segment falls to "F," a deficiency plan must be required. Preparation of a deficiency plan will be the responsibility of the local agency where the deficiency is located. Other agencies identified as contributors to the deficiency will also be required to coordinate with the development of the plan. The plan must contain <u>mitigation</u> measures, including consideration of Transportation Demand Management (TDM) strategies and transit alternatives, and a schedule for <u>mitigating eliminating</u> the deficiency.

Riverside County General Plan – Circulation Element & Land Use Element

The Riverside County General Plan is applicable to all unincorporated lands within Riverside County. Countywide policies that address traffic and transportation within the County boundaries are found in the Circulation Element (2020) and Land Use Element (2021) of the County General Plan, and include:

Circulation Element:

...

- Policy C1.8: Ensure that all development applications comply with the California Complete Streets Act of 2008 as set forth in California Government Code Sections 65040.2 and 65302.
- Policy C2.1: The following minimum target levels of service have been designated for the review of development proposals in the unincorporated areas of Riverside County with respect to transportation impacts on roadways designated in the Riverside County Circulation Plan (Figure C-1), which are currently County maintained, or are intended to be accepted into the County maintained roadway system:

LOS C shall apply to all development proposals in any area of the Riverside County not located within the boundaries of an Area Plan, as well those areas located within the following Area Plans: REMAP, Eastern Coachella Valley, Desert Center, Palo Verde Valley, and those non-Community Development areas of the Elsinore, Lake Mathews/Woodcrest, Mead Valley and Temescal Canyon Area Plans

Notwithstanding the forgoing minimum LOS targets, the Board of Supervisors may, on occasion by virtue of their discretionary powers, approve a project that fails to meet these LOS targets in order to balance congestion management considerations in relation to benefits, environmental impacts and costs, provided an Environmental Impact Report, or equivalent, has been completed to fully evaluate the impacts of such approval. Any such approval must incorporate all feasible mitigation measures, make specific findings to support the decision, and adopt a statement of overriding considerations.

Policy C2.2: Require that new development prepare a traffic impact analysis as warranted by the Riverside County Traffic Impact Analysis Preparation Guidelines or as approved by the Director of Transportation. Apply level of service targets to new development per the Riverside County Traffic Impact

Analysis Preparation Guidelines to evaluate traffic impacts and identify appropriate mitigation measures for new development.

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- Policy C2.3: Traffic studies prepared for development entitlements (tracts, plot plans, public use permits, conditional use permits, etc.) Shall identify project-related traffic impacts and determine the significance of such impacts in compliance with CEQA and the Riverside County Congestion Management Program Requirements.
- Policy C2.4: The direct project-related traffic impacts of new development proposals shall be mitigated via conditions of approval requiring the construction of any improvements identified as necessary to meet level of service targets.
- Policy C2.8: Riverside County shall coordinate with Caltrans, RCTC and adjacent local jurisdictions in conformance with the Riverside County Congestion Management Program to determine the appropriate LOS threshold for determining significance when reviewing development proposals that directly impact nearby State Highway facilities or city streets.
- Policy C3.6: Require private developers to be primarily responsible for the improvement of streets and highways that serve as access to developing commercial, industrial, and residential areas. These may include road construction or widening, installation of turning lanes and traffic signals, and the improvement of any drainage facility or other auxiliary facility necessary for the safe and efficient movement of traffic or the protection of road facilities.
- Policy C3.8: Restrict heavy duty truck through-traffic in residential and community center areas and plan land uses so that trucks do not need to traverse these areas.
- Policy C3.9: Design off-street loading facilities for all new commercial and industrial developments so that they do not face surrounding roadways or residential neighborhoods. Truck backing and maneuvering to access loading areas shall not be permitted on the public road system, except when specifically permitted by the Transportation Department.
- Policy C3.10: Require private and public land developments to provide all on-site auxiliary facility improvements necessary to mitigate any development-generated circulation impacts. A review of each proposed land development project shall be undertaken to identify project impacts to the circulation system and its auxiliary facilities. The Transportation Department may require developers and/or sub-dividers to provide traffic impact studies prepared by qualified professionals to identify the impacts of a development.
- Policy C6.1: Provide dedicated and recorded public access to all parcels of land, except as provided for under the statutes of the State of California.
- Policy C6.2: Require all-weather access to all new development.
- Policy C7.1: Work with incorporated cities to mitigate the cumulative impacts of incorporated and unincorporated development on the countywide transportation system.
- Policy C7.9: Review development applications in cooperation with RCTC and as appropriate, to identify the precise location of CETAP corridors and act to preserve such areas from any permanent encroachments, pending dedication or acquisition. Coordinate with RCTC to evaluate and update the CETAP corridors periodically as conditions warrant.

Land Use Element:

 Policy LU 29.6: Require that commercial projects abutting residential properties protect the residential use from the impacts of noise, light, fumes, odors, vehicular traffic, parking, and operational hazards.

Riverside County Municipal Code Title 10 Vehicles and Traffic, Chapter 10.08, Sections 10.08.010 – 10.08.180

Chapter 10.08 establishes requirements and permits for oversize and overweight vehicles.

Riverside County Ordinance No. 460

This ordinance specifies that all new access roads shall conform to the requirements of the Riverside County Transportation Department Subdivision Regulations.

Riverside County Ordinance No. 461

This ordinance specifies that all new access roads shall conform to the requirements of the Riverside County Transportation Department Road Improvement Standards and Specifications.

The proposed Project would be consistent with applicable policies and ordinances of the County related to traffic and transportation. This would be assured through Project design, requirements imposed under a CUP/PUP and Development Agreement, and County review of plans.

3.18.3. Methodology for Analysis

This analysis focuses on potential impacts related to the construction, operation and maintenance, and decommissioning of the Project on the surrounding transportation systems and roadways considering vehicle miles traveled (VMT), as required under CEQA. In addition, Riverside County has an additional impact criterion to be considered regarding congestion. However,- level of service (LOS) is no longer a metric for determining the significance of traffic impacts under. Construction is a limited duration activity that does not generate vehicle miles over the life of the project. The proposed Project would have a large number of workers arriving and departing the site during the construction period, but thereafter the amount of traffic to the site would be minimal for the operation and maintenance needs. Construction-related traffic is evaluated qualitatively, as is allowed under CEQA. However, because concerns may arise over the level of construction traffic on local roads and how it affects levels of traffic, LOS was used to evaluate traffic in the Project vicinity. The *Transportation Impact Analysis* report (David Evans and Associates, 2023) found in EIR Appendix H₂ is the basis for also evaluating impacts to local transportation systems based on level of service determinations.

This assessment of transportation-related impacts is based on evaluations and technical analyses designed to compare the existing conditions (pre-Project), construction and operation of the Project, and cumulative impacts that consider the additional effects of other projects in the region. After construction, operation of the Project would not generate a substantial or significant number of trips above those already generated by existing land uses in the Project area. However, the construction phase of the Project would include trips generated by construction workers and supplies delivered by trucks to the Project area. Decommissioning activities are anticipated to be similar to construction, but less intense. This analysis considers the effects of transportation and traffic of the Project in the context of CEQA and Riverside County requirements. Caltrans is the agency responsible for permitting and regulation of the use of stateadministered roadways within California, including I-10 and SR-177, and the County is the agency responsible for regulation of the use of roadways within its jurisdictional boundaries.

3.18.3.1. Trip Generation

Trip generation for the proposed Easley Project was developed for the construction phase of the Project using information provided by the Applicant. Another project, the Sapphire Solar Project, is proposed adjacent to the Easley Project. If approved, construction of this project could potentially overlap with the Easley Project construction period. Three projects in the vicinity of the Easley site are under construction.

They are the Oberon Renewable Energy Project (operational with site restoration underway), the Victory Pass Solar Project, and the Arica Solar Project. These are anticipated to have completed construction and be in operation prior to the start of Easley Project construction. To be conservative (and thereby identify the "worst case" scenario), traffic on roads in the vicinity during the Easley Renewable Energy Project construction period is assumed to include both Easley Project and Sapphire Solar Project construction traffic as projected at the time of the analysis (See Table 3.18-1), as well as operations-related traffic associated with the Oberon, Victory Pass, and Arica projects.

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Average daily trips (ADT) and peak hour trips generated in the Project area during the construction period of the Easley Project are shown in Table 3.181. This includes construction trips associated with both the Easley Project and the proposed Sapphire Project, as well a<u>snd</u> the O&M trips associated with operations of the three nearby solar projects.

Overall, the average number of workers on the Easley site during construction is projected to be 320, with a peak of 530. The higher number represents a "worst case" scenario and assumes 530 single occupant worker vehicles arriving and departing the construction site during the peak hours. Based on the distance between the Project and population centers where most workers live, many workers are expected to carpool from near their homes or from remote parking locations rather than drive alone to the Project site. Remote parking and carpooling would reduce the actual number of vehicles on roads in the Project vicinity during peak hours. As well, not all workers are expected to arrive/depart in a single peak AM or PM hour.

			AM Peak Hour			PN	PM Peak Hour		
Description	Quantity	ADT	In	Out	Total	In	Out	Total	
Easley Project Workers	530	1080	530	10	540	10	530	540	
Easley Project Delivery Trucks	80 <u>**</u>	160	3	3	6	3	3	6	
Daily Total Easley Project Trips		1240	533	13	546	13	533	546	
Sapphire Project Workers	322 <u>***</u>	650	322	3	355	3	322	325	
Sapphire Project Delivery Trucks	9	17	1	1	2	1	1	2	
Daily Total Sapphire Project Trip	S	667	323	4	327	4	323	327	
Nearby Solar Project O&M Workers*	30	60	30	0	30	0	30	30	
Nearby Solar Project O&M Deliveries*	9	18	6	6	12	3	3	6	
Daily Total Nearby O&M Trips	*	78	36	6	42	3	33	36	
Total Construction Period Workers	882	1790	882	13	925	43	852	895	
Total Construction Period Trucks	98	195	10	10	20	7	7	14	
Daily Total Trip	S	1985	892	23	915	20	889	909	

Table 3.18-1. Daily Construction Trip Generation During Construction Period

* For Arica Solar, Victory Pass Solar, Oberon Renewable Energy Projects

** The assumption of 80 roundtrips per day in the Easley Traffic Impact Analysis Report (EIR Appendix H) is based on a larger Project MW output, and thus conservatively analyzes a worst-case scenario. The number of truck trips has been reduced to 60 roundtrips in EIR Section 2.4.8 to reflect the current up to 400 MW project.

*** After publication of the DEIR, Sapphire Project advised that its construction worker estimate is 250 employees, 72 less than used in estimating trip generation for the combined projects. No revision has been made to the analysis based on the revised number, thereby retaining the more conservative estimate.

Source: EIR Appendix H.

3.18.3.2. Vehicle Miles Traveled

Vehicle miles traveled (VMT) is a measure used in transportation planning for a variety of purposes. It measures the amount of travel for all vehicles in a geographic region over a given period. VMT is calculated by adding up all the miles driven by all the cars and trucks on all the roadways in a region. This metric plays an integral role in the transportation planning, policy-making, and revenue estimation processes due to its ability to indicate travel demand and behavior. Per CEQA Guidelines section 15064.3, subdivision (b), a VMT analysis under CEQA may be based on the following:

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- Qualitative Analysis: If existing models or methods are not available to estimate the vehicle miles traveled for the particular project being considered, a lead agency may analyze the project's vehicle miles traveled qualitatively. Such a qualitative analysis would evaluate factors such as the availability of transit, proximity to other destinations, etc. For many projects, a qualitative analysis of construction traffic may be appropriate.
- Methodology: A lead agency has discretion to choose the most appropriate methodology to evaluate a project's vehicle miles traveled, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project's vehicle miles traveled, and may revise those estimates to reflect professional judgement based on substantial evidence. Any assumptions used to estimate vehicle miles traveled and any revisions to model outputs should be documented and explained in the environmental document prepared for the project.

While the proposed Project would generate a substantial number of trips, this would be only during construction, which is anticipated to take approximately 20-months. Therefore, a qualitative analysis for VMT has been conducted.

VMT reduction is needed to achieve State climate goals as travel per capita and passenger vehicle emissions have continued to grow despite improvements in vehicle fuel efficiency and other strategies to reduce emissions The more that travelers are able to make the same trips by walking, bicycling, using transit, or carpooling, the less VMT increases even as new development occurs.

The proposed Project would generate a large amount of traffic during the 20-month construction period but not thereafter. As the site is developed, workers and trucks would travel to and from the site. The remote location of the site limits the opportunity to improve how efficiently workers reach the site. Living locally or carpooling are two ways to reduce VMT in the region. However, there are few housing opportunities nearby. Workers could (and on other projects currently under construction workers do) carpool. Few if any alternative means to reach the Project site are available. The ability to use public transit is limited by from the distance from the nearest transit stop to the site and the very infrequent service; the same is true for walking and bicycling.

The VMT approach is useful when a project results in facilities or locations that generate trips year-in and year-out, such as office buildings and shopping centers. During construction, these and other projects generate temporary vehicle trips from workers and materials deliveries, which end with the end of construction. The principal concern during construction is the effect of worker and truck traffic on congestion in the Project vicinity. This is the case with the Easley Project. After construction, during operation, the Project would generate few trips – not enough to have a significant impact on congestion, air quality, noise, and similar concerns.

3.18.3.3. Level of Service

Level of Service (LOS) is a qualitative method to assess congestion (delay) at intersections and ranges across six levels, from LOS A to LOS F. The level of delay is measured in seconds. At unsignalized intersections, LOS A results in 10 seconds or less delay for a motorist; LOS F results in 50 seconds or greater

delay. In California, LOS is no longer a criterion for assessing project traffic impacts under CEQA. The focus has shifted from congestion, as measured by LOS, to broader traffic impacts on air quality, energy use, climate change, and other factors, as measured by Vehicle Miles Traveled (VMT). However, in addition to VMT, Riverside County planners are concerned about the effects of a project on local roads and the level of congestion that may occur. In situations such as those existing at and around the Easley Project site, LOS remains a useful tool for illustrating the construction-period congestion effects of a project on local roads and intersections. LOS is an indicator of operating conditions on a roadway or at an intersection and is defined in categories ranging from A to F. LOS A represents the best traffic flow conditions with very low delay, and LOS F represents poor conditions. LOS A indicates free-flowing traffic, and LOS F indicates substantial congestion with long delays at intersections.

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Once the Easley Project is operational, traffic attributable to the Project would be minimal; therefore, the focus of this impact analysis is on the congestion that may occur on roadways during construction, when there would be a high volume of worker vehicles and delivery trucks accessing the Project site. Based on this consideration, the analysis of traffic and transportation impacts related to the Easley Project is focused on the level of service on local roads, where LOS is measured in terms of delay for motorists that results from the number of vehicles on the roadway and at intersections.

For the proposed Project, field observations of existing intersection turning movements (counts) were completed on Wednesday, February 15, 2023. This was a midweek day with clear weather. Table 3.18-2 presents existing LOS at the five studied intersections. As illustrated in Table 3.18-2, all of the intersections within the study area of the proposed Project are operating at an acceptable level of service (LOS A or LOS B) during both the morning and afternoon peak hours when Project-related traffic would be heaviest.

	Peak Period	Existing	
Intersection		Delay	LOS
Rice Road (SR-177) / I-10 Eastbound Ramps	AM	9.5	А
	PM	9.4	А
Rice Road (SR-177) / I-10 Westbound Ramps	AM	9.3	А
	PM	9.4	А
Rice Road (SR-177) / Ragsdale Road	AM	9.7	А
	PM	11.5	В
Rice Road (SR-177) / Kaiser Road (County R2)	AM	8.9	А
	PM	9.7	А
Rice Road (SR-177) / Oasis Road	AM	8.8	А
	PM	9.5	А

Table 3.18-2. Existing Intersection Levels of Service

Source: EIR Appendix H.

The LOS shown in Table 3.18-2 shows current conditions (February 2023), which included traffic associated with projects that under construction in the area on the day traffic counts were taken. If the Easley Renewable Project were not constructed, but the proposed Sapphire Project were built and the three nearby solar projects were in their post-construction O&M stage, the LOS at the intersections would be as shown in Table 3.18-3. All levels would be acceptable.

	Peak	Existing	
Intersection	Period	Delay	LOS
Rice Road (SR-177) / I-10 Eastbound Ramps	AM	10.4	В
	PM	10.4	В
Rice Road (SR-177) / I-10 Westbound Ramps	AM	12.9	В
	PM	9.7	А
Rice Road (SR-177) / Ragsdale Road	AM	13.8	В
	PM	20.3	С
Rice Road (SR-177) / Kaiser Road (County R2)	AM	9.4	А
	PM	15.5	С
Rice Road (SR-177) / Oasis Road	AM	9.3	А
	PM	10.7	В

Table 3.18-3. Intersection Levels of Service with Sapphire Project Construction and O&M Projects

Source: EIR Appendix H.

When it is assumed that the Easley Project the proposed Sapphire Project have a simultaneous construction period and the three nearby solar projects are in their post-construction O&M stage, the LOS at intersections would be as shown in Table 3.18-4. This table includes the three driveways that are associated only with the Easley Project. Under this scenario, three intersections in the area were identified has potentially having LOS F, highlighted in bold in the table.

	Peak Period	Existing	
Intersection		Delay	LOS
Rice Road (SR-177) / I-10 Eastbound Ramps	AM	18.5	С
	PM	18.3	С
Rice Road (SR-177) / I-10 Westbound Ramps	AM	114.3	F
	PM	12.2	В
Rice Road (SR-177) / Ragsdale Road	AM	29.5	D
	РМ	72.8	F
Rice Road (SR-177) / Kaiser Road (County R2)	AM	14.4	В
	PM	271.6	F
Rice Road (SR-177) / Oasis Road	AM	10.4	В
	PM	13.2	В
Oasis Road / Kaiser Road (County R2)	AM	13.9	В
	PM	12.8	В
Rice Road (SR-177) / Project Driveway #1	AM	17.3	С
	PM	17.5	С
Rice Road (SR-177) / Project Driveway #2	AM	17.3	С
	PM	17.5	С
Kaiser Road (County R2) / Project Driveway #3	AM	11.2	В
	PM	29.3	D

Source: EIR Appendix H.

These tables show the potential temporary effect of construction traffic on LOS at various local intersections. The analysis supporting Table 3.18-4 assumed that the Easley and Sapphire Projects have simultaneous construction periods, that the traffic on a particular day is the maximum for each of the two projects, and that workers arrive/depart during the peak AM/PM hours in single occupant vehicles.

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LOS F would occur for AM Peak Hour traffic on the westbound I-10 ramp to Rice Road and PM Peak Hour traffic on Ragsdale Road at Rice Road and on Kaiser Road at Rice Road. Under this scenario, three intersections would be at LOS F. Under County standards intersections with LOS F would be unacceptable.

With the end of construction, the only traffic associate<u>d</u> with solar projects would be that required for O&M operations, estimated to involve no more than 10 workers and 3 trucks arriving and departing each day per solar project site.

3.18.3.4. Ambient Growth and Cumulative Traffic

The ambient growth is a general rate of growth in traffic from overall regional growth (assumed to be 3% annually for the analysis presented in EIR Appendix H). Over 20 projects in Eastern Riverside County were identified that are either operational or are under construction but will be operational prior to construction of the Easley Project. Eight other potential future projects in the vicinity of the Easley are under review but not approved.

The traffic impact analysis presented in EIR Appendix H considered the development of adjacent and nearby large-scale solar energy projects, where the construction of those projects is expected to overlap with construction of the proposed Easley Project. As shown in Table 3-18-4, for the Easley Project this would involve simultaneous development of the proposed adjacent Sapphire Solar Project. Three projects in the vicinity of the Easley Project – Arica Solar, Victory Pass Solar, and Oberon Solar – are expected to be in operation prior to the construction phase of the Easley Project.

During the operations and maintenance of these three projects, each would each contribute daily traffic from an estimated 10 workers and 3 truck deliveries. This would result in and estimated 42 AM peak hour trips and 36 PM peak hour trips. When operational, the Easley Project would have a similar level of traffic (10 workers, 3 truck deliveries) as the other solar projects in the vicinity.

3.18.4. CEQA Significance Criteria

The criteria used to determine the significance of potential traffic and transportation impacts are based on Appendix G of the State CEQA Guidelines. Based on the Guidelines, the proposed Project would result in a significant impact under CEQA related to traffic and transportation if the Project would:

- Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities.
- Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b).
- Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).
- Result in inadequate emergency access.

The County of Riverside's Environmental Assessment Form includes additional significance criteria. The additional criteria indicate that a project could have potentially significant impacts related to traffic and transportation if it would:

- Cause an effect, or a need for new or altered maintenance of roads (see Impact TRA-2);
- Cause an effect upon circulation during the project's construction (see Impact TRA-1);
- Result in inadequate emergency access or access to nearby uses (see Impact TRA-1).
- Include the construction of expansion of a bike system or bike lanes (omitted).

The County impact criterion regard<u>ing</u> construction or expansion of bike facilities is omitted; the Project would not construct or expand bike facilities. The other Guidelines and County criteria are addressed in Section 3.18.5.

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The County of Riverside's Environmental Assessment Form also includes significance criteria regarding airports. These are addressed in Section 3.10, Hazards and Hazardous Materials.

3.18.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to traffic and transportation, including concerns about increased disturbance, dust, and noise created by construction vehicles and trucks, as well as the speed and presence of these vehicles impacting the safety of residents. Dust, noise, and similar nuisance impacts are discussed in the relevant resource topic areas in this EIR. It is presumed that vehicles would comply with posted speed limits and obey all traffic laws on public roads. Compliance with traffic laws would reduce any potential safety risk to residents.

A commentor also expressed concerns about coordination with the Department of Defense (DoD), as the Project is in a fly zone, which the military uses for training. The Department of Defense will receive notification of the Project and of the availability of the EIR and will be invited to comment. The height of Project facilities, such as the gen-tie line, would comply with requirements of the FAA to ensure aviation safety and any DoD restrictions that may apply. <u>(See Section 3.18, Hazards and Hazardous Materials, Impact HAZ-1.)</u>

Impact TRA-1. The Project would conflict with an applicable plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities.

Solar Facility

Road Network

LESS THAN SIGNIFICANT WITH MITIGATION. The County's Congestion Management Plan (CMP) predates revisions to CEQA, which changed the focus of traffic analysis from congestion (measured as level-of-service (LOS)) to vehicle miles traveled (VMT). The CMP still requires an analysis of congestion. Table 3.18-4 presents the potential level of service (LOS) at each study area intersection where the maximum daily construction trips were to occur for the Easley Project, the proposed Sapphire Project, and the three nearby solar projects in the O&M stage of operation. This represents the "worst case" scenario, with the highest number of workers working at each site and arriving/departing during the same peak hours.

As shown in Table 3.18-4. the addition of Easley Project-related construction trips to the ambient conditions (Sapphire Project plus three projects in O&M) could result in three intersections operating at LOS F, an unacceptable level:

- I-10 westbound ramp at SR-177 LOS F (AM Peak Hour)
- Rice Road (SR-177) at Ragsdale Road LOS F (PM Peak Hour)
- Rice Road (SR-177) at Kaiser Road (County Route R2) LOS F (PM Peak Hour)

To ensure that impacts from temporary construction-related trips are reduced to a less than significant level, Mitigation Measure (MM) TRA-1 (Construction Traffic Control Plan) is proposed and would require the Applicant to prepare a Construction Traffic Control Plan for review and approval by Caltrans and Riverside County. This plan requires the Applicant to reduce construction-related trips during morning (7:00 a.m. to 9:00 a.m.) and afternoon (4:00 p.m. to 6:00 p.m.) peak hours on I-10, SR-177, and Kaiser Road. If the traffic conditions at the time of Project construction reflect the ambient conditions due to

overlapping construction, the measure requires the Applicant to install a temporary signal or use manual intersection control. The Easley Project in itself is not expected to result in an unacceptable LOS as it would generate fewer vehicle trips than the ambient conditions (which includes simultaneous construction at the Sapphire Project site). Therefore, the measure allows for adaptive management given the uncertain schedule for projects included in the ambient conditions.

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Up to 10 permanent staff could be on the site at any one time for ongoing facility maintenance and repairs. Alternatively, approximately 2 permanent staff and 8 Project operators would be located off-site and would be on call to respond to alerts generated by the monitoring equipment at the Project site. The Project site maintenance program would be largely conducted on-site during daytime hours. Equipment repairs could take place in the early morning or evening when the plant would be producing the least amount of energy. Based on these expected operational and maintenance requirements, it is estimated average daily traffic volumes associated with Project operation would be approximately 15 daily round trips (30 total trips), with the majority being passenger vehicles. The addition of 30 daily trips would have a negligible effect on performance of the study area transportation system and less than significant impacts would occur.

Transit, Bicycle, and Pedestrian Use

LESS THAN SIGNIFICANT WITH MITIGATION. The only public transit stop in the Project vicinity is at Desert Center Post Office. The service is operated by the Palo Verde Valley Transit Agency, which serves the Blythe Area. Bus Route 6 travels along I-10 and serves the Desert Center Post Office once daily westbound and east-bound on Monday, Wednesday, and Friday. The Post Office stop is west of SR-177, south of the Project near I-10 and would not be affected by Project construction. There are no designated pedestrian and bicycle paths in the Project vicinity.

Construction of the solar facility is not expected to require any temporary lane closures that could restrict the movements of vehicles or pedestrians. However, construction of the Project would require large vehicles to travel on local roadways to access the Project site. MM TRA-1 (Construction Traffic Control Plan) requires the Construction Traffic Control Plan be reviewed and approved by Caltrans and Riverside County and includes provisions for ensuring detours or safe movement of traffic through all affected areas. With the implementation of this measure, impacts during construction would be less than significant.

Once constructed, maintenance activities would occur as needed at the solar facility but are not expected to require any temporary travel lane closures that could restrict the local circulation system. Impacts would be less than significant.

500 kV Generation-Tie Line

LESS THAN SIGNIFICANT WITH MITIGATION. The construction trip generation shown in Table 3-18-4 includes trips associated with both construction of the solar energy facility and the gen-tie line. Therefore, the trip analysis presented above for construction of the solar energy facility also evaluated trips associated with gen-tie construction. As discussed, the implementation of MM TRA-1 (Construction Traffic Control Plan) would eliminate any significant impact at the three affected study area intersections.

As presented in Chapter 2 (Description of the Proposed Project and Alternatives) construction of the gentie would require overhead conductors be strung across SR-177. Overhead gen-tie construction could require the short-term temporary closure lanes on SR-177. Also, where new poles would be installed adjacent to roads and where conductor would be strung on poles adjacent to roadways, temporary travel lane disruptions may also occur.

Mitigation Measure TRA-1 (Construction Traffic Control Plan) is proposed to provide specificity regarding the means to reduce potential impacts from any temporary travel lane disruptions and requires the Construction Traffic Control Plan be reviewed and approved by Caltrans and Riverside County. With the

incorporation of MM TRA-1 (Construction Traffic Control Plan), impacts to traffic flow resulting from temporary construction-related disruptions to the affected circulation system would be less than significant.

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Once constructed, the gen-tie overhead facilities would require routine inspection via ground observation. Maintenance activities would occur as needed. Collector lines would not require routine inspection but may require some periodic maintenance over the life of the Project. Due to the limited duration and extent of these activities, minimal daily trips are necessary and would have a negligible effect on the LOS or other performance standard of the transportation system under existing conditions. Routine inspections and maintenance are not expected to require temporary lane closures. Impacts would be less than significant.

Mitigation Measures for Impact TRA-1

MM TRA-1 Construction Traffic Control Plan. See full text in Section 3.18.79 (Mitigation Measures).

Significance After Mitigation

With the implementation of MM TRA-1, potential impacts to traffic flows on the affected circulation system resulting from Project-related construction traffic trips and potential disruptions to travel lanes would be less than significant and would be consistent with applicable traffic-related plans and policies.

Impact TRA-2. Construction of the Project would conflict with or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b) regarding transportation impacts.

LESS THAN SIGNIFICANT WITH MITIGATION. The proposed Project would result in traffic trips during construction. During construction, an average of 320 workers per day would commute to the Project site with a maximum of 530 workers during peak construction. In addition, an estimated <u>worst-case scenario of</u> 80 round trips per day would be required to deliver materials and equipment to the Project site. Truck trips associated with materials and equipment deliveries would likely come from within the Palm Springs, Blythe, and/or Riverside–San Bernardino area, with some materials trips likely originating from the Ports of Long Beach and Los Angeles. Many temporary workers needed for construction of the gen-tie would reside within a 60 to 90-minute drive time of the Project area. This assumption is based on observations regarding- worker commute habits during construction monitoring efforts for recent similar renewable energy and transmission projects in the California desert. However, it is likely that some construction workers would come from outside <u>this anticipated</u>a reasonable commute area and seek temporary housing proximate to the work area.

Per State CEQA Guidelines Section 15064.3(b)(3), a qualitative VMT analysis of construction trips is appropriate, given that the construction-related trips are not ongoing once construction is completed. Due to the remote location of the Project site, many construction truck trips may require high VMT to access the site. However, all construction-related truck trips would be temporary and only in volumes necessary to deliver equipment and materials to the site. Upon completion of construction, all truck trips and construction worker commute trips would cease. At this time, no knownthere are no applicable VMT thresholds of significance for temporary construction trips that may indicate a significant impact are known. MM TRA-1 (Construction Traffic Control Plan) requires the Applicant to prepare a Construction Traffic Control Plan, with the Plan providing means to encourage or provide ridesharing opportunities for construction workers. Therefore, while the proposed Project would include temporary construction trips that may include high VMT, they would not affect existing transit uses or corridors and are presumed to cause a less than significant transportation impact. Based on construction of other solar projects in the region, workers often carpool because of the distance travelled and the cost savings.

Once constructed, operation and maintenance of the Project would generate very few vehicle trips. It is assumed operational workers would either be located in, or seek permanent residence within, a reasonable commute distance. For example, Blythe is approximately 50 miles east of Desert Center and Indio is a similar distance to the west. This would require a 45-minute commute. The estimated commute time and VMT for operational workers is considered to be within a reasonable range typical of the remote desert communities nearest to the Project. Due to the remote location of the Project site, limited residential and transit opportunities to the site, and low number of daily trips (30 daily trips), Project operation is not considered to result in high VMTs that could adversely affect transit or transportation planning for the area. MM TRA-1 requires the Applicant to prepare a Construction Traffic Control Plan to affected jurisdictions, with the Plan providing means to encourage or provide ridesharing opportunities for operational workers as well. Therefore, operational-related trips would not affect existing transit uses or corridors and are presumed to cause a less-than-significant transportation impact.

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Mitigation Measures for Impact TRA-2

MM TRA-1 Construction Traffic Control Plan. See full text in Section 3.18.9-7(Mitigation Measures).

Significance After Mitigation

This impact would be less than significant with implementation of MM TRA-1.

Impact TRA-3. Project activities would increase transportation hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).

Solar Facility and 500 kV Generation-Tie Line

LESS THAN SIGNIFICANT WITH MITIGATION. Most construction traffic would access the Project area via I-10 and SR-177, accessing private site entrances from SR-177 and Kaiser Road adjacent to the Project site. Due to the flat topography, both the freeway and local roadways accessing the site have a relatively straight horizontal alignment with good visibility in all directions. All access driveways to the site from SR-177 would comply with County and Caltrans requirements to ensure safe site ingress and egress. There would be no sharp curves or dangerous intersections. All new internal roads within the site would be private. During construction, all truck drivers would adhere to California Vehicle Code regulations pertaining to licensing, size, weight, and load of vehicles operated on highways and local roads; safe operation of vehicles; and the transport of any hazardous materials. Traffic on public freeways and roads would be of the same vehicle types (passenger vehicles and heavy trucks) that currently occur and are allowed. Construction-related traffic would be compatible with existing traffic. Therefore, no additional roadway hazards would occur from Project-related vehicle trips on transportation facilities. Additionally, MM TRA-1 (Construction Traffic Control Plan) requires the preparation of a Construction Traffic Control Plan to be reviewed and approved by Caltrans and Riverside County. This Plan includes provisions for ensuring detours or safe movement of local resident vehicles, pedestrians, and bicycles through all affected facilities. With the incorporation of this mitigation, hazard impacts from Project-related vehicle use of public roadways would be less than significant.

The movement of heavy trucks and equipment on public roads to Project work areas could potentially result in damage to road surfaces, shoulders, curbs, sidewalks, signs, and light standards. MM TRA-2 (Repair Roadways and Transportation Facilities Damaged by Construction Activities) is proposed to ensure any damage and deterioration attributed to the Project would be repaired. With the incorporation of this mitigation, hazard impacts from transportation facility damage demonstrable to the Project would be less than significant.

The 500 kV gen-tie line would cross SR-177 overhead, requiring temporary lane closures when the conduit is strung between towers east and west of the highway. Collector lines from the solar arrays located east of SR-177 would be installed under SR-177 using directional drilling. Traffic would not be affected.

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During operations and maintenance, it is estimated average daily traffic volumes associated with the Project would be approximately 15 round trips (30 total trips), with the majority being passenger vehicles. This amount of operational daily trips would have a negligible effect on public roadway safety. During public scoping, concern was raised about an increase in traffic resulting in safety hazards on local roads. It is assumed that passenger vehicle and trucks associated with development of the Project would obey traffic laws with regard to speed limits and rights of way for vehicles and pedestrians. Mitigation Measure TRA-1 would reduce the number of vehicles on local roads by encouraging carpooling.

Mitigation Measures for Impact TRA-3

MM TRA-1 Construction Traffic Control Plan. See full text in Section 3.18.9-7(Mitigation Measures).

MM TRA-2 Repair Roadways and Transportation Facilities Damaged by Construction Activities. See full text in Section 3.18.97 (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant with implementation of MMs TRA-1 and TRA-2.

Impact TRA-4. Project activities would result in inadequate emergency response access or access to nearby properties.

Solar Facility

LESS THAN SIGNIFICANT WITH MITIGATION. Construction of the solar facility is not expected to require temporary lane closures that could restrict the movements of emergency vehicles. The Project site would have controlled access points for ingress and egress at the site. These access points would allow for emergency vehicle access into and through the site. The Project would not block access to nearby properties. Therefore, impacts during construction would be less than significant.

Once constructed, maintenance activities would occur as needed at the solar facility but are not expected to require any temporary travel lane closures that could restrict emergency vehicle movements. Emergency responders would have access to any locked gates into the site. Impacts would be less than significant.

500 kV Generation-Tie Line

LESS THAN SIGNIFICANT WITH MITIGATION. As discussed under Impact TRA-1, construction of the gen-tie line may require temporary closure or disruption to travel lanes during conductor stringing. MM TRA-1 (Construction Traffic Control Plan) is proposed to provide specificity regarding the means to reduce potential impacts from any temporary travel lane disruptions during construction of the gen-tie line. Additionally, MM TRA-1 requires the Construction Traffic Control Plan be reviewed and approved by Caltrans and Riverside County and would include plans to coordinate in advance with emergency service providers to avoid restricting the movements of emergency vehicles. With the incorporation of this mitigation, impacts from temporary construction-related disruptions to the affected circulation system would be less than significant.

Typical inspections and maintenance of the gen-tie line would not require temporary road or lane closures. Therefore, normal maintenance activities are not expected to restrict emergency service access or vehicle movements. Less than significant impacts would occur.

Mitigation Measures for Impact TRA-4

MM TRA-1 Construction Traffic Control Plan. See full text in Section 3.18.97 (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant with implementation of MM TRA-1.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.18.6. Cumulative Impacts

Geographic Scope

The geographic scope of the cumulative analysis for the transportation and traffic vehicle trips analysis are the Project study area intersections identified in Table 3.18-2. This geographic area was selected because cumulative projects would increase impacts only if they used the same intersections and roads at the same time as the proposed Project. Therefore, the cumulative projects considered within the traffic and transportation geographic extent include the ambient projects, i.e., the proposed Sapphire Project and the three nearby solar projects that would be in their O&M phase.

Cumulative Impact Analysis

As discussed in Section 3.18.5, Project operations and maintenance would result in negligible daily trips to study area roadways. Therefore, the cumulative impact analysis focuses on traffic volumes generated during construction of the proposed Project. Impact TRA-1 and Impact TRA-2 consider the cumulative impacts of the Project by analyzing the effects of the Project plus the ambient conditions. Both impacts conclude that the cumulative impacts would be less than significant with implementation of MM TRA-1 (Construction Traffic Control Plan). Furthermore, Project construction and operation would not introduce trip VMT in excess of projects within the rural desert area and with implementation of MM TRA-1 would require the Applicant to ensure plans for carpooling are incorporated.

Several solar projects and associated gen-tie lines and the Eagle Mountain Project gen-tie line are located within 20,000 feet of the Desert Center Airport. As with the proposed Project, each project would check with the airport sponsor and the FAA to ensure there are no potential safety or navigational problems with a proposed solar facility, especially if it is a large facility (FAA, 2010). Each cumulative development project within 20,000 feet of Desert Center Airport would also have to be evaluated against FAA 7460 regulations pertaining to structures that may affect aviation and airspace safety. Because each project would need to comply with FAA determinations, the FAA will be able to ensure that the cumulative impacts to the Desert Center Airport are not significant.

The number of potential solar projects that could be under development at the same time would result in an increase in trips, VMT, and an increased risk of transportation hazards or damage to the roads. Cumulative impacts due to increased transportation hazards or damaged roads could be significant if simultaneous construction activities resulted in significant volumes of heavy truck trips that affected safe use of a roadway or damaged transportation facility surfaces. The Project's contribution to the potentially significant cumulative impact would be reduced to less than cumulatively considerable because MM TRA-1 (Construction Traffic Control Plan) requires the Applicant to define the methods to maintaining close coordination with Caltrans and Riverside County, prior to and during construction, to minimize cumulative impacts of multiple simultaneous construction projects affecting shared portions of the circulation system. MM TRA-1 also requires the Applicant to reduce temporary motorist hazards in a variety of ways, including ensuring the safe movement of pedestrians and bicycles through work areas. MM TRA-2 (Repair Roadways and Transportation Facilities Damaged by Construction Activities) is proposed to ensure any damage and deterioration attributed to the Project would be repaired. With the incorporation of these measures, the Project would have a less than significant contribution to cumulative hazard impacts on transportation facilities.

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Construction of gen-tie lines could result in a cumulative impact to temporary lane closures. This is because construction of the solar facilities is expected to require temporary lane closures for the stringing of gen-tie conductor across roadways. The Easley Project would only require lane closures on SR-177 during conductor installation. This is a short-term effect. Construction of the gen-tie lines for each cumulative project may require stringing the lines over local roads and the I-10, but each developer would be required to coordinate that work with Caltrans and the County to avoid any cumulative impacts.

Construction of the solar facility is not expected to require any temporary lane closures that could restrict the movements of buses. Similarly, the construction of the cumulative projects would also be unlikely to require temporary land closures because they would be built on public or private lands off of public roads. Construction of the proposed Project would require large vehicles travel on local roadways to access the site and includes MM TRA-1 (Construction Traffic Control Plan) that would include provisions for ensuring detours or safe movement of vehicles through all affected areas. The cumulative projects would also be required to abide by regulations regarding lane closures to reduce any potential impacts. Therefore, the Project would not result in a cumulative significant impact to public transportation.

If adopted, the proposed expansion of Joshua Tree National Park and creation of Chuckwalla National Monument would re-designate existing federal lands in the Project vicinity that could increase traffic from recreational uses and visitors. If this occurs, it would be after the proposed Project is constructed and in operation, when project-related traffic would be minimal. The Project's contribution to local traffic at that time would not be cumulatively considerable.

Mitigation Measures for Cumulative Impacts

Implementation of MM TRA-1 and MM TRA-2 would mitigate potential transportation and traffic impacts for the proposed Project. No additional mitigation is required.

Significance After Mitigation

With implementation of mitigation, the Project's incremental contribution to impacts from an increase in daily trips and transportation hazards would not be cumulatively considerable. There would be no cumulative impact to aviation safety, disruption of emergency response access, or public transportation.

3.18.7. Mitigation Measures

- **MM TRA-1 Construction Traffic Control Plan.** Prior to the start of construction, the Project owner shall submit a Construction Traffic Control Plan for review and approval by Caltrans and Riverside County for affected roads and intersections that would be directly affected by the construction activities and/or would require permits and approvals. The Construction Traffic Control Plan shall include, but not be limited to:
 - If multiple construction projects occur at the same time and conditions at the intersection warrant, plans for installation of a temporary signal or use of manual intersection control during the construction period at the I-10 westbound ramp at SR-177. Additionally, if conditions warrant, geometry changes shall be considered in coordination with Caltrans and Riverside County, and implemented, if necessary, in addition to signalization at the I-10 westbound ramp and SR-177. These geometry changes could include a turn pocket.

The locations and use of flaggers, warning signs, barricades, delineators, cones, arrow boards, etc., according to standard guidelines outlined in the Manual on Uniform Traffic Control Devices, the Standard Specifications for Public Works Construction, and/or the California Joint Utility Traffic Control Manual.

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- The locations of all road or traffic lane segments that would need to be temporarily closed or disrupted due to construction activities.
- The locations where guard poles, netting, or similar means to protect transportation facilities for any construction or conductor installation work requiring the crossing of a local street highway is proposed.
- The use of continuous traffic breaks operated by the California Highway Patrol on state highways (if necessary).
- Additional methods to reduce temporary traffic delays to the maximum extent feasible during morning (7:00 a.m. to 9:00 a.m.) and afternoon (4:00 p.m. to 6:00 p.m.) peak traffic periods, or as directed in writing by the affected public agency in encroachment or other permits). This should also include feasible ways to reduce construction-related trips on I-10, SR-177, and Kaiser Road during peak traffic periods.
- Plans to encourage or provide ridesharing/carpooling opportunities for construction and operational workers.
- Incorporation wildlife protection measures, as required in MM BIO-6.
- Plans to provide written notification to property owners and tenants at properties affected by access restrictions to inform them about the timing and duration of obstructions and to arrange for alternative access if necessary. The coordination shall occur at least one week prior to any blockages.
- Plans to coordinate in advance with emergency service providers to avoid restricting the movements of emergency vehicles. Police departments and fire departments shall be notified in advance by the Project owner of the proposed locations, nature, timing, and duration of any roadway disruptions, and shall be advised of any access restrictions that could impact their effectiveness. At locations where roads will be blocked, provisions shall be ready at all times to accommodate emergency vehicles, such as immediately stopping work for emergency vehicle passage, providing short detours, and developing alternate routes in conjunction with the public agencies.
- Define the method to maintaining close coordination, prior to and during construction, with Caltrans and Riverside County to minimize cumulative impacts of multiple simultaneous construction projects affecting shared portions of the circulation system. Coordination with adjacent development projects to spread work shifts into multiple hours (instead of peak hour) or the installation of additional temporary traffic signals or manual traffic control officers during peak hours to mitigate the temporary impacts.
- **MM TRA-2 Repair Roadways and Transportation Facilities Damaged by Construction Activities.** If roadways, sidewalks, medians, curbs, shoulders, or other such transportation features are damaged by Project construction activities, as determined by the affected public agency, such damage shall be repaired and restored to their pre-Project condition by the Project owner. Prior to construction, the Project owner shall confer with Caltrans and Riverside County regarding the roads within 500 feet in each direction of Project access points (where heavy vehicles will leave public roads to reach Project sites) and regarding the roads to be crossed by the proposed gen-tie line. At least 30 days prior to construction,

or as requested by Riverside County or Caltrans, the Project owner shall photograph or video record all affected roadway segments and shall provide Riverside County and Caltrans with a copy of these images, if requested.

At the end of major construction, the Project owner shall coordinate with each affected jurisdiction to confirm whether repairs are required. Any damage demonstrable to the Project is to be repaired to the pre-construction condition within 60 days from the end of all construction, or on a schedule mutually agreed to by the Project owner and the affected jurisdiction. If multiple projects are using the transportation features, the Easley Project owner shall pay its fair share of the required repairs. the Project owner shall provide Riverside County and Caltrans (as applicable) proof when any necessary repairs have been completed.

3.19. Wildfire

This section evaluates the impacts relating to wildfire hazards resulting from implementation of the Project. It describes applicable regulations, existing conditions that influence risks associated with wild-fire, the criteria used to determine the significance of environmental impacts, and the Project's potential impacts relating to wildfire. An impact analysis and comparison of project alternatives is included in Section 5.

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3.19.1. Environmental Setting

The Project site is located in the central portion of Chuckwalla Valley in the Colorado Desert, east of Joshua Tree National Park. No major urbanized areas are located within 40 miles of this area; the Project site is considered a remote location.

The site and surrounding areas consist of land at varying elevation, ranging from less than 400 feet above mean sea level (amsl) at Ford Dry Lake (approximately 20 miles southeast of the Project) to over 3,000 feet amsl in the mountains that enclose the Chuckwalla Valley. The immediate Project site is relatively flat. Vegetation communities at the Project site are generally limited to scattered creosote brush scrub and desert dry wash woodland. Land uses near the Project include agriculture, the small community of Lake Tamarisk, scattered residences, renewable energy, energy transmission, historical military operations, and recreational development and use. Several solar farms exist in the vicinity of the Project. The existing Desert Sunlight and Desert Harvest solar facilities are located north, Athos Renewable Energy Project is located to the east, and Oberon is located to the southeast of the Projects to the southeast. The Sapphire Solar Project, proposed by EDF Renewables, is adjacent to the northern area of the Easley Project.

The Riverside County General Plan Safety Element identifies areas with rugged topography and flammable vegetation as being susceptible to fire hazards. According to the California Department of Forestry and Fire Protection (CAL FIRE), the Project is located within both Local Responsibility Areas (LRAs) and Federal Responsibility Areas (FRAs) (CAL FIRE, 2023). According to the Wildfire Susceptibility Map in the Riverside County General Plan Safety Element (2019 version), Very High Fire Hazard Severity Zones (FHSZs) in Local, State, and Federal Responsibility Areas are concentrated in the western portions of Riverside County (Riverside County, 2019). The Project would be located in Moderate FHSZ in LRA and FRA. Since the Project is not located in a State Responsibility Area (SRA), CAL FIRE would not be responsible for fire management or suppression activities in this area. This responsibility falls to the U.S. Bureau of Land Management (BLM), although agencies cooperate in fire incident responses. Agencies that are likely to provide wildfire protection to the Project would be the Riverside County Fire Department (RCFD) and BLM Fire Program.

Climate change will result in a small but general increase in temperature, and higher temperatures, and droughts are likely to increase the severity, frequency, and extent of wildfires during operation, maintenance, and decommissioning of the Project (USEPA, 2023).

Riverside County Fire Department. RCFD, in cooperation with CAL FIRE, provides fire and emergency services to residents in Riverside County. There are 101 fire stations located throughout the County that serve unincorporated communities, partner cities, and the State of California under the California Master Mutual Aid Agreement (RCFD, 2023). RCFD Station 49 is the closest fire station to the Project site, located approximately 0.4 mile south at 43880 Tamarisk Drive, Desert Center.

Bureau of Land Management Fire Program. The BLM Fire Program is responsible for fire and fuels management and protection of federal lands, identified as Federal Responsibility Areas, within the United States. The Fire and Aviation program includes fire suppression, preparedness, predictive services, fuels

management, fire planning, community assistance and protection, prevention and education, and public safety (BLM, 2023a). BLM establishes fire prevention orders and restrictions to assist with wildland fire prevention efforts throughout the public lands within the California Desert District, which includes portions of Inyo, Imperial, Kern, Mono, Los Angeles, San Bernardino, San Diego, and Riverside Counties (BLM, 2023b).

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3.19.2. Regulatory Framework

3.19.2.1. Federal Laws, Regulations, and Policies

Federal Wildland Fire Management Policy. On BLM-administered lands in the California Desert, the BLM implements Federal Wildland Fire Management policies and objectives in coordination with state and other federal agencies as part of the California Desert Interagency Fire Management Organization. The Federal Wildland Fire Management Policy was developed by a federal multi-agency group that establishes consistent and coordinated fire management policy across multiple federal jurisdictions. The policy acknowledges the essential role of fire in maintaining natural ecosystems, but also prioritizes firefighter and public safety first in every fire management activity and focuses on risk management as a foundation for all fire management activities. The policy promotes basing responses to wildland fires on approved Fire Management Plans and land management plans, regardless of ignition source or the location of the ignition.

National Electric Safety Code (NESC) and American National Standards Institute (ANSI) Guidelines. A variety of line and tower clearance standards are used throughout the electric transmission industry. Nationally, most transmission line owners follow the NESC rules or ANSI guidelines, or both, when managing vegetation around transmission system equipment. The NESC deals with electric safety rules, including transmission wire clearance standards, whereas the applicable ANSI code deals with the practice of pruning and removal of vegetation.

3.19.2.2. State Laws, Regulations, and Policies

California Fire Code. The California Fire Code governs code requirements to minimize the risk of fire and life safety hazards specific to battery energy storage systems used for standby or emergency power, uninterruptable power supply, and other grid services.

California Fire Plan. The Strategic California Fire Plan was finalized in June 2010 and directs each CAL FIRE Unit to prepare a specific Fire Management Plan for their areas of responsibility. These documents assess the fire situation within each of CAL FIRE's 21 units and six contract counties. The plans include stakeholder contributions and priorities and identify strategic areas for pre-fire planning and fuel treatment, as defined by the people who live and work with the local fire problem. The plans are required to be updated annually.

3.19.2.3. Local Laws, Regulations, and Policies

Riverside County General Plan. The intent of the Safety Element of the Riverside County General Plan is to reduce death, injuries, property damage, and economic and social impact from hazards. The following policies included in the Safety Element generally relate to the proposed Project with respect to natural hazards (Riverside County, 2021a).

- Policy S 5.1. Develop and enforce construction and design standards that ensure that proposed development incorporates fire prevention features through the following:
 - All proposed development and construction within Fire Hazard Severity Zones shall be reviewed by the Riverside County Fire and Building and Safety departments.

 All proposed development and construction shall meet minimum standards for fire safety as defined in the Riverside County Building or County Fire Codes, or by County zoning, or as dictated by the Building Official or the Transportation Land Management Agency based on building type, design, occupancy, and use.

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- In addition to the standards and guidelines of the California Building Code and California Fire Code fire safety provisions, continue to implement additional standards for high-risk, high occupancy, dependent, and essential facilities where appropriate under the Riverside County Fire Code (Ordinance No. 787) Protection Ordinance. These shall include assurance that structural and nonstructural architectural elements of the building will not impede emergency egress for fire safety staffing/personnel, equipment, and apparatus; nor hinder evacuation from fire, including potential blockage of stairways or fire doors.
- Proposed development and construction in Fire Hazard Severity Zones shall provide secondary public access, in accordance with Riverside County Ordinances.
- Proposed development and construction in Fire Hazard Severity Zones shall use single loaded roads to enhance fuel modification areas, unless otherwise determined by the Riverside County Fire Chief.
- Proposed development and construction in Fire Hazard Severity Zones shall provide a defensible space or fuel modification zones to be located, designed, and constructed that provide adequate defensibility from wildfires.
- Policy S 5.4. Limit or prohibit development or activities in areas lacking water and access roads.
- Policy S 5.6. Demonstrate that the proposed development can provide fire services that meet the minimum travel times identified in RCFD Fire Protection and EMS Strategic Master Plan.
- Policy S 7.14. Regularly review and clarify emergency evacuation plans for dam failure, inundation, fire and hazardous materials releases.
- Policy S 7.15. Develop a blueprint for managing evacuation plans, including allocation of buses, designation and protection of disaster routes, and creation of traffic control contingencies.

Desert Center Area Plan. The intent of the Wildland Fire section of the Hazards section of the Desert Center Area Plan (a part of the General Plan) is to address wildland fire susceptibility for improved public safety in the Desert Center area. The following policy included in the Desert Center Area Plan generally relates to the proposed Project with respect to hazards (Riverside County, 2021b).

Policy DCAP 10.1. All proposed development located within High or Very High Fire Hazard Severity Zones shall protect life and property from wildfire hazards through adherence to policies identified in the Fire Hazards (Building Code and Performance Standards), Wind-Related Hazards and General and Long-Range Fire Safety Planning sections of the General Plan Safety Element.

Riverside County Fire Department Technical Policy (TP) 15 002. The RCFD TP 15 002, titled Solar Energy Generating System (SEGS) Fire Apparatus Access Roads, is a standard developed to assist with the design of fire apparatus access roads from public roadways to a SEGS (i.e., solar facility). It addresses secondary access road requirements, which shall be determined by the County Fire Marshal given the specific conditions of any given solar project (RCFD, 2020). Each SEGS project will be reviewed on a case-by-case basis to determine secondary fire apparatus access requirements to facilitate emergency operations and to minimize the possibility of an access point being subject to congestion or obstruction during an emergency incident. This standard states that the secondary access road shall not be less than 20 feet in width and shall have an unobstructed vertical clearance of no less than 13 feet, 6 inches. The grade of the access road shall not exceed 15 percent. The access road shall be designed, constructed, and maintained

to support the imposed load of fire apparatus weighing at least 75,000 pounds and constructed to Riverside County Transportation Standards. A registered engineer shall certify the design and construction of the access road based on the fire apparatus-imposed load of 75,000 pounds.

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The proposed Project would be consistent with County policies and regulations related to wildfire through the design and construction of the Project and its subsequent operation, which would comply with the applicable requirements for design review/approval by the agencies having oversight.

3.19.3. Methodology for Analysis

Wildfire hazards associated with the Project are evaluated based on landscape characteristics and the Project's ability to start or exacerbate wildfires. Potential existing hazards are based on review of the location of the Project on CAL FIRE maps to determine its location within FHSZs. Although the Project would not be located in a Very High or High FHSZ, the potential for wildfires is still present due to the electrical components of the Project. This analysis identifies design features and compliance with existing safety procedures, standards, and regulations that would be part of the Project.

3.19.4. CEQA Significance Criteria

The criteria used to determine the significance of potential wildfire impacts are based on Appendix G of the State CEQA Guidelines. The proposed Project would result in a significant impact under CEQA related to Wildfire if the Project is located in or near State Responsibility Areas or lands classified as very high fire hazards severity zones and would:

- Substantially impair an adopted emergency response plan or emergency evacuation plan.
- Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire.
- Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment.

The County of Riverside's Environmental Assessment Form includes additional significance criteria, which were also used in the analysis. The additional criteria indicate that a project could have potentially significant impacts if it would:

• Expose people or structures either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires.

The following CEQA significance criterion from Appendix G was not included in the analysis and is not discussed further beyond this summary:

• Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes.

The Project would be located in a Moderate FHSZ in a remote desert area. The solar facility would be constructed and operated on nearly level ground and would require minimal grading, and areas with irregular topography would be avoided and be protected in place to preserve important hydrologic functions. Solar panels would not be installed in existing drainages or washes. Because the ground surface at the Project site is nearly level, and nonflammable solar panels would be installed, the Project would not pose a risk of landslides, post-fire slope instability, or drainage changes. As such, impacts regarding downslope or downstream flooding or landslides as a result of post-fire slope instability would be less than significant.

3.19.5. Proposed Project Impact Analysis

The scoping effort conducted by the Riverside County Planning Department revealed several public concerns related to wildfire. Public concerns brought up in the scoping process involved concerns about the increased risk of wildfires due to the increased presence of power lines. Although the proposed Project is not located in or near SRAs or lands classified as Very High FHSZ, the potential for wildfires is still present due to the electrical components of the Project.

Impact FIRE-1. The Project would substantially impair an adopted emergency response plan or emergency evacuation plan.

LESS THAN SIGNIFICANT WITH MITIGATION, CONSTRUCTION. The Easley Project would be constructed in a remote area with existing, approved, and proposed solar projects nearby. SR-177 would be the primary access road to the solar facility site, and several ingress/egress points would be established for construction access. An internal roadway system would be constructed to provide access within the Project site. Construction of the solar facility, battery energy storage system (BESS), and other components would not require any temporary lane closures on public roads. Although construction vehicles would be present on public roads to access the Project site, construction of the solar facility is not expected to restrict the movements of emergency vehicles. The new ingress and egress points at the Project site would allow for emergency vehicles access into and through the site, as well as provide controlled access for construction vehicles.

Construction of the gen-tie line would primarily occur within the 175-foot BLM right-of-way, but this disturbance would not obstruct any public rights-of-way. A small section of the gen-tie line would be strung across SR-177, potentially requiring temporary lane closures during stringing of the wire between towers east and west of SR-177. As discussed in Section 3.18, (Traffic and Transportation), Mitigation Measure (MM) TRA-1 (Construction Traffic Control Plan) is proposed to provide specificity to reduce potential impacts from any temporary travel lane disruptions during construction of the gen-tie line. MM TRA-1 (Construction Traffic Control Plan) requires the Construction Traffic Control Plan be reviewed and approved by Caltrans and Riverside County and would include plans to coordinate in advance with emergency service providers to avoid restricting the movements of emergency vehicles (see Impact TRA-4 in Section 3.18, Traffic and Transportation, for full text). With the incorporation of this mitigation measure, impacts from temporary construction-related traffic disruptions would be less than significant.

LESS THAN SIGNIFICANT, OPERATIONS AND MAINTENANCE. During Project operations, up to 10 permanent staff could be on site at the solar facility at any given time for as-needed maintenance and repairs. Maintenance activities for the solar arrays, BESS, gen-tie line, and other components are not expected to require any temporary lane closures that could restrict emergency vehicle movements due to the small number of employees that may travel to the site. Additionally, approximately two permanent staff, eight project operators, and security personnel would be located off site and would be on call to respond to alerts generated by the monitoring equipment at the Project site. Ingress and egress points established during Project construction would be available for operational and emergency access. All internal access roads and gates would comply with RCFD TP 15 002, California Building Code, and County requirements. Access roads would provide a fire buffer as well as facilitate on-site circulation for emergency vehicles. Impacts during Project operations would be less than significant.

Less THAN SIGNIFICANT, DECOMMISSIONING. Decommissioning the Project would require similar equipment and workforce as Project construction but would be substantially less intense. Workers would travel to the site to dismantle all above-ground equipment (i.e., solar panels, BESS, and associated infrastructure), remove primary roads, break up concrete pads and foundations, remove the septic system and leach field, dismantle the gen-tie line, and scarify compacted areas. Similar to construction, decommissioning would

result in the presence of construction vehicles on public roads to transport workers and equipment and to haul away decommissioned materials. Vehicles used during decommissioning of the solar facility are not expected to restrict the movements of emergency vehicles. The ingress and egress points at the Project site would be maintained during the duration of decommissioning to allow for emergency vehicles access into and through the site, as well as provide controlled access for vehicles. After decommissioning activities are complete, the site would be restored to its pre-solar facility conditions, or such condition as appropriate in accordance with County and BLM policies at the time of decommissioning. Decommissioning activities would result in less-than-significant impacts associated with emergency response plans or evacuation plans.

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Mitigation Measures for Impact FIRE-1

MM TRA-1 Construction Traffic Control Plan). See Section 3.18 (Traffic and Transportation) for full text.

Significance After Mitigation

This impact would be less than significant.

Impact FIRE-2. The Project would expose Project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire.

Less THAN SIGNIFICANT WITH MITIGATION, CONSTRUCTION. According to the CAL FIRE FHSZ Viewer and the County of Riverside General Plan Safety Element, the Project is not located in a high or very high FHSZ, and thus would not be in an area prone to wildfires. The Project is in a remote, sparsely populated area approximately 40 miles from the nearest major development. The surrounding area includes active and fallow agricultural fields, the community of Lake Tamarisk, electrical transmission lines, and other solar facilities. Wildfires in California typically occur in heavily forested areas and vegetated grassy hillsides, and communities generally at highest risk of wildfire hazards are those located within these areas or in the wildland urban interface. Due to the presence of sparse vegetation, relatively flat topography, the remote location of the Project, and its desert setting, the potential for the Project to exacerbate wildfire risks and expose nearby residences to the hazards of wildfire is low.

The Project design includes fire safety precautions. While vegetation on the Project site is sparse, vegetation management would still be required as needed, particularly for drainage controls, work areas, and solar array areas, and all other areas where permanent structures would be constructed. Prior to construction, vegetation would be mowed, grubbed, rolled, cut, or cleared. The solar array areas would require mowing and rolling of woody vegetation to a height of 12 inches. Woody vegetation adjacent to non-solar array structures would be partially cut. Reduction of vegetation would reduce the availability of flammable fuels around the Project site.

Construction of the proposed solar facility, BESS, gen-tie line, and other components would involve preparation, installation, and testing of electrical components such as cables, inverters, wiring, modules, and a transformer. Wires would be buried at a minimum of 18 inches below grade, minimizing the potential for faulty wiring to ignite a fire. All electric inverters and the transformer would be constructed on concrete foundation structures or steel skids and tested prior to use to ensure safe operations and to minimize fire risks. Prior to wire setup, work areas would be cleared of vegetation to reduce the risk of ignition from any vehicles or equipment. Small quantities of hazardous chemicals such as fuels and greases would be stored at the site during construction. They would be stored in appropriate containers in an enclosed and secured location with secondary containment to prevent leakages and accidental fires.

During construction, a fire suppression system would be placed in service if required by the County or BLM Fire. Fire extinguishers and other portable firefighting equipment would be available on site, as well

as additional water for use at the operations and maintenance (O&M) facility. Fire extinguishers would be maintained in accordance with State and federal Occupational Safety and Health Administration (OSHA) requirements.

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Furthermore, as described in Section 2.5.13 (Fire Safety During Construction), fire safety measures would be implemented as part of the Project to limit risk of personnel injury, property loss, and potential disruption of electrical generation. <u>Further, pursuant to MM FIRE-1, Aadditional measures would be added to the Project's</u> Fire Management and Prevention Plan would be prepared for the Project and would<u>to</u> include standards for construction. The plan would address fire-safe construction measures, including welding, reduction of ignition sources, control of fuel sources, availability of water, and property maintenance of firefighting systems. The plan would comply with applicable BLM and Riverside County regulations and would be developed in coordination with the BLM and the RCFD. To further reduce the risk of fire, Mitigation Measure FIRE-1 (Fire Safety) is recommended to specify what elements would need to be included in the Fire Management and Prevention Plan. Implementation of MM FIRE-1 would ensure the impact is less than significant.

The following measures would be taken to identify and control fires and similar emergencies, and are specified in greater detail in MM FIRE-1:

- Electrical equipment that is part of the Project would be energized only after the necessary inspection and approval to minimize risk of any electrical fire during construction.
- Project staff would monitor fire risks during construction and operation to ensure that prompt measures are taken to mitigate identified risks.
- Transformers located on site would be equipped with coolant that is non-biodegradable and contains no polychlorinated biphenyls or other toxic compounds.

The Project's location, components, and safety measures would ensure the safe construction of the solar facility. Any fire hazards during construction of the solar facility would be minimal and further reduced with the Fire Management and Prevention Plan (MM FIRE-1). Security at the Easley solar facility, including solar arrays, substation, and BESS, would be provided by a 6-foot-tall chain-link fence topped with one-foot barbed wire to prevent vandalism, damage, or theft of Project components. As such, the proposed Project would not exacerbate wildfire risks or expose workers and residents to pollutant concentrations from a wildfire or the uncontrolled spread of wildfire. Construction of the solar facility and BESS would result in less-than-significant impacts with mitigation.

The gen-tie transmission structures would be constructed with either monopoles, lattice steel structures, or wooden H-frame poles and would not exacerbate fire risks, as foundations would be constructed with concrete foundations. Construction of the gen-tie transmission line and structures would use existing access roads where feasible. During construction, vegetation within the gen-tie corridor would be reduced or cleared as part of fire safety measures to reduce the likelihood of ignition from vehicles or equipment. As described previously, fire safety measures would be implemented to ensure that construction of the Project components, including the gen-tie line, are implemented in accordance with applicable fire protection and environmental, health, and safety requirements. As such, construction of the Project's gen-tie line would result in less-than-significant impacts.

Less THAN SIGNIFICANT WITH MITIGATION, OPERATIONS AND MAINTENANCE. Once operational, up to 10 workers are anticipated to perform daily visual inspections and minor repairs to ensure all Project components are in good working condition. No heavy equipment would be used during normal operations. Due to the lower level of activity during operations, fewer vehicles would travel to the solar facility. The reduction in vehicle trips and workers would reduce the risk of on-site accidental fires caused by human activities such as smoking, hot work (i.e., welding), and improper vehicle operation. O&M would be limited to inspections and repairs and would not involve the handling, usage, or production of flammable materials. The Project

facility would be monitored by both on-site and remote O&M personnel. On-site vegetation would be trimmed approximately once every three years, as needed. Vegetation maintenance would ensure that flammable vegetation would not grow within access roads or electrical components. This would prevent ignition of vegetation from hot tailpipes of maintenance vehicles or sparks from faulty electrical components. Fire hazards during operation of the solar facility would be minimal and further reduced with the Fire Management and Prevention Plan and-(MM FIRE-1 (Fire Safety)). MM FIRE-1 would include additional-specific elements in the Fire Management and Prevention Plan to address fire safety during Project operations. Implementation of MM FIRE-1 would ensure the impact from operation of the solar facility is less than significant.

Solar arrays and photovoltaic modules are fire-resistant and would not be susceptible to ignition from fires. In a potential wildfire situation, the panels would be rotated and stowed in a panel-up position that could slow the spread of a fire. Security at the Easley solar facility would continue to be provided by a 6-foot-tall chain-link fence and barbed wire to prevent vandalism, damage, or theft of Project components during operations.

The Project includes operation of an up to 650-MW BESS. The BESS would be housed in electrical enclosures that would be installed on concrete foundations designed for secondary containment. Potential electrical fires would be contained within the enclosures and would not spread beyond them. The BESS would be installed following all applicable design, safety, and fires standard for the installation of energy storage systems, including, but not limited to, National Fire Protection Association (NFPA) 855 (Standard for the Installation of Stationary Energy Storage Systems) and the current California Fire Code (CFC). NFPA 855 includes criteria for fire prevention and suppression associated with BESS installations, and Section 1206 of the CFC includes requirements to minimize the risk of fire and life safety hazards specific to BESSs used for load shedding, load sharing, and other grid services (Chapter 12 Section 1206 of the 2019-2022 CFC). In accordance with the CFC, the battery enclosure and the site installation design are all required to be approved by the State County Fire Marshal. Furthermore, MM FIRE-1 includes a measure to include information about the type of BESS technology on site, potential hazards, and procedures for disconnecting or shutting down the BESS in case of an accidental fire. Compliance with these design and safety regulations and implementation of MM FIRE-1 would reduce the likelihood of battery fires starting and spreading. The BESS's impact of exposure of people to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire to less than significant with mitigation.

Wildfire risk along the gen-tie corridor would be minimal due to the lack of substantial vegetation, and concrete foundations would further reduce the spread of fire. Portions of the gen-tie line could also be installed underground based on design constraints, existing utilities, and resources. Undergrounding portions of the gen-tie line would reduce the risk of fire. As described previously, fire safety measures would be implemented to ensure that operation of the Project components, including the gen-tie line, are implemented in accordance with applicable fire protection and environmental, health, and safety requirements, which require vegetation clearance, regular inspections and maintenance, and monitoring weather conditions such as high-wind conditions. As such, operation of the Project's gen-tie line would result in less-than-significant impacts.

Less THAN SIGNIFICANT WITH MITIGATION, DECOMMISSIONING. Decommissioning of the solar facility, BESS, gentie line, and other Project components would require a similar workforce and equipment as Project construction, but at a lower intensity. The risk of fire during decommissioning would be lower than that of construction, as the site would have been maintained during its life, and vegetation would be appropriately managed. Decommissioning activities would follow the same fire safety measures as construction, including adherence to the Fire Management and Prevention Plan. Flammable chemicals such as fuels and greases stored on site would be in proper enclosed containers and secured throughout the duration of decommissioning. Fire extinguishers and other portable firefighting equipment would be on site and maintained in accordance with OSHA requirements. Implementation of MM FIRE-1 would include

additional measures to the Fire Management and Prevention Plan, such as fire prevention procedures and emergency response that would minimize the likelihood of a wildfire from starting or spreading. Impacts would be less than significant with mitigation.

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Mitigation Measures for Impact FIRE-2

MM FIRE-1 Fire Safety. See Section 3.19.<u>79</u> (Mitigation Measure) for full text.

Significance After Mitigation

This impact would be less than significant following implementation of mitigation.

Impact FIRE-3. The Project would require the installation and maintenance of infrastructure such as roads, fuel breaks, emergency water sources, power lines, or other utilities that may exacerbate the risk of fire.

LESS THAN SIGNIFICANT, CONSTRUCTION. The Project would construct a utility-scale solar photovoltaic electrical generation and storage facility that would deliver electricity to the statewide transmission grid. Construction of the solar facility would result in the installation of infrastructure to support the generation, delivery, and storage of electricity. Prior to construction, vegetation would be mowed, grubbed, rolled, cut, or cleared. The reduced amount of already-sparse vegetation would minimize the potential ignition of vegetation. Construction of all internal access roads and gates would comply with RCFD TP 15 002, California Building Code, and County requirements.

Construction activities would involve the use of heavy construction equipment and vehicles to install the solar facility's components over the course of approximately 20 months. If on-site fuel tanks are stored at the site for construction vehicles and equipment, they would be no larger than 1,000 gallons each and would comply with all applicable regulations. Flammable substances would be stored in appropriate containers in an enclosed and secured location with secondary containment to prevent leakages and accidental fires.

Although the solar facility is in a remote desert setting and is not within a High or Very High FHSZ, the electrical components could pose a small risk of fire if they become damaged or are tampered with. Electrical components that may pose a risk of fire include the electrical distribution line, transformers, batteries, substations, gen-tie line, and the switchyard. Because these components are located in a sparsely vegetated and remote location away from densely populated areas, the potential for faulty electrical equipment to exacerbate fire risks for populated areas is minimal. Additionally, assembly and installation of the electrical equipment would meet existing electrical and safety standards. Certified electricians and utility journeymen would be part of the construction workforce to ensure that all electrical equipment is assembled properly. Up to two substation yards would be secured with a barbed wire chain-link fence to comply with electrical codes and would include communication systems to comply with California Independent System Operator and SCE's monitoring and control requirements to ensure safe operation. Construction of the electrical components, including the BESS, would include preparation, installation, and testing. Wires would be buried at a minimum of 18 inches below grade, minimizing the potential for faulty wiring to ignite a fire. The majority of the solar facility's equipment would consist of solar PV panels and their mounting systems, which would be assembled from noncombustible, nonflammable materials. The solar PV panels would not ignite a potential wildfire or exacerbate the spread of wildfires.

Construction of the gen-tie line and structures would occur within an approximately 175-foot-wide corridor. Wire setup sites within this corridor would be cleared and graded to ensure enough clearance for large equipment used for the wire stringing operation. Removing potentially flammable materials and vegetation within the construction corridor would reduce the risk of wildfire during construction. The gen-

tie transmission structures would be composed of monopoles, lattice steel structures, or wooden H-frame poles and would not exacerbate fire risks due to the nonflammable nature of their concrete foundations. Construction of the gen-tie transmission line and structures would use existing access roads where feasible. The lack of substantial vegetation within the gen-tie corridor would create a minimal wildfire risk during construction of the gen-tie line. As described previously, fire safety measures would be implemented to ensure that construction of the Project components are implemented in accordance with applicable fire protection and environmental, health, and safety requirements. As such, construction of the Project's gen-tie line would result in less-than-significant impacts.

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LESS THAN SIGNIFICANT WITH MITIGATION, OPERATIONS AND MAINTENANCE. Regular O&M of the solar facility would involve daily visual inspections and maintenance when needed to address damage or deterioration of equipment. O&M activities would ensure that all equipment is in good working order, thereby minimizing accidents and potential fires. Additionally, fire safety measures would be implemented during operations, including having portable firefighting equipment and extinguishers, sprinkler systems, and a fire suppression system on site as well as additional water for use at the O&M facility. These safety measures, along with the Fire Management and Prevention Plan, would provide safe operating conditions and fire response protocols to minimize the risk of wildfire. As such, operation of the solar facility would have a less-than-significant impact regarding the installation of utilities that may exacerbate fire risk and result in temporary impacts.

The BESS would be housed in enclosed storage containers constructed on level concrete foundations. The enclosures would contain potential accidental fires and prevent them from spreading and causing further damage. The BESS area would also be cleared of vegetation to further minimize the risk of fire spreading. Furthermore, to minimize the risk of batteries overheating within the enclosures, air conditioners or heat exchangers and inverters would be installed for temperature control. The enclosures would also have remote communication systems that monitor for internal conditions such as temperature and smoke-and have automatic fire suppression systems. The BESS system would include live monitoring that would automatically start an emergency notification and response procedure if a fire were to occur. As described in Section 2.7.3 (Fire Safety During Operation), the BESS would be certified to UL 9540 (standard for control, detection, and suppression of fires in BESSs). Each battery would be tested to this standard, and results would support first responders by indicating that internal fires are contained and not spread to other parts of the facility. Additionally, a 150,000-gallon water tank would also be available for each BESS unit-as a backup to the- to provide as-needed fire suppression-systems. The BESS would comply with all requirements of the current CFC and would require approval by the State Fire Marshal. To further improve fire safety, MM FIRE-1 is recommended, which includes specific measures to be added to the Fire Management and Prevention Plan to include information about the type of BESS technology on site, potential hazards, and procedures for disconnecting or shutting down the BESS in case of an accidental fire. It also includes a training component for emergency first responders to prepare for incidents such as fire or explosion at or with the BESS. Therefore, impacts would be less than significant with mitigation.

Operation of the gen-tie transmission line has a low likelihood of causing or exacerbating a wildfire due to the sparsely vegetated areas immediately surrounding the gen-tie structures. However, sparks and resulting fires have historically occurred along transmission lines due to foreign objects (e.g., falling trees, birds, mylar balloons, flammable debris carried by wind, etc.) contacting conductors or insulators. This risk would be reduced by regular inspections and maintenance of electrical components as well as trimming vegetation as needed to reduce fuel load. No trees are located in the vicinity of the gen-tie lines that could ignite from contact with the gen-tie line structures. Due to the gen-tie line's remote location away from densely populated areas, foreign objects such as balloons or bullets flammable debris are unlikely to come into contact with conductors or insulators. Drones would be used to perform annual thermal and visual inspections of the gen-tie line in compliance with North American Electric Reliability Corporation (NERC) FAC-003-4 Transmission Vegetation Management to reduce risk of equipment malfunction or

failure. The use of drones would minimize the need for larger vehicles such that ground disturbance and potential tailpipe-ignited fires would be avoided. Therefore, gen-tie line inspections would ensure that gen-tie lines and structures are not damaged and would minimize the risk of electrical fires. Implementation of MM FIRE-1 would ensure activities such as vegetation clearing, idling restrictions, and worker training would further reduce the risk of fire associated with operation of the gen-tie line to a level of less than significant.

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LESS THAN SIGNIFICANT, DECOMMISSIONING. The solar facility, BESS, gen-tie line, and other electrical infrastructure would be dismantled and removed from the Project site. As described previously, fire safety measures would be implemented to ensure that decommissioning of the Project components is implemented in accordance with applicable fire protection and environmental, health, and safety requirements. As such, decommissioning of the Project would result in less-than-significant impacts.

Once the Project is decommissioned, the solar facility would no longer generate electricity, and the BESS, gen-tie line, distribution lines, and other electrical components would not store or conduct electricity. The removal of solar panels, BESS, gen-tie line, power lines, and other electrical components during decommissioning would essentially eliminate fire risk associated with the electrical infrastructure. After the Project is decommissioned, no power lines, BESS, or other components with a fire risk would exist at the site and no impact would occur once the Project is decommissioned.

Mitigation Measures for Impact FIRE-3

MM FIRE-1 Fire Safety. See full text in Section 3.19.79 (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant.

Impact FIRE-4. The Project would expose people and structures to risks of loss, injury, or death involving wildfires.

LESS THAN SIGNIFICANT WITH MITIGATION, CONSTRUCTION. As discussed under Impact FIRE-2, the proposed Project is not located in a high or very high FHSZ, and thus would not be in an area prone to wildfires. The Project is located in a moderate zone, which typically are wildland supporting areas of low fire frequency and relatively modest fire behavior. The Project site is surrounded by remote desert lands, active and fallow agricultural fields, and other solar facilities. Lake Tamarisk is the closest community to the Project, located adjacent to the southwest corner of the Project site. Due to the presence of sparse vegetation, relatively flat topography, the remote location of the Project, and its desert setting, the potential for the Project to expose people and structures to wildfire risks is low.

During construction of the solar facility, BESS, and gen-tie line, vegetation would be managed on site to reduce the risk of fire. Work areas would be cleared of vegetation so that construction activities such as welding would not ignite nearby vegetation. Woody vegetation would be trimmed to reduce the availability of dry fuels and slow down potential fires. All electrical components such as the gen-tie line, power lines, inverters, transformers, and BESS would be constructed on nonflammable concrete foundation structures or steel skids and tested prior to use for safe operations.

During construction, a fire suppression system would be placed in service if required by the County or BLM Fire. Fire extinguishers and other portable firefighting equipment would be available on site, as well as water for use at the O&M facility. Fire extinguishers would be maintained in accordance with State and federal OSHA requirements. Well-maintained firefighting equipment would increase the likelihood that any accidental fires that occur during construction would be effectively extinguished. MM FIRE-1 would include measures requiring fire prevention, emergency response, and evacuation to ensure the safety of

construction workers. All construction workers would receive training on fire prevention procedures, proper use of firefighting equipment, and procedures following the event of a fire. Fire prevention procedures would be included in the Project's Worker Environmental Awareness Program.

7-9

The Project is located in both LRAs and FRAs, and as such, RCFD and BLM Fire would be responsible for fighting fires at the Project site. RCFD Station 49 is located approximately 0.4 mile south of the Project site and would be the first responder for the Project in the event of a fire. As required in MM FIRE-1, the Project owner would coordinate with both BLM and RCFD to train emergency first responders to prepare for specialized emergency incidents at the site, including fire or explosion at or within the BESS area. Additionally, worker training records on fire prevention and firefighting procedures would be made available for BLM and RCFD to review. Coordination with the local fire department would ensure timely emergency response that would minimize the risk of loss, injury, or death during construction. Due to the Project's desert setting, scarce vegetation, fire safety measures, and coordination with CRFD and BLM FIRE, impacts would be less than significant with mitigation.

Less THAN Significant with Mitigation, Operations and Maintenance. Project operations would consist of a minimal number of on-site workers for daily inspections and as-needed repairs. No hazardous activities would be performed during operations that could spark a fire, as no heavy equipment would be used, and fewer vehicles would travel to the solar facility. O&M would be limited to inspections and repairs and would not involve the handling, usage, or production of flammable materials. The Project facility would be monitored by both on-site and remote O&M personnel. Inspections, repairs, and remote monitoring of the Project components would reduce the likelihood of electrical failures or faulty equipment that could spark a fire. Fire hazards during operation of the solar facility would be minimal and further reduced with the Fire Management and Prevention Plan (MM FIRE-1). MM FIRE-1 would include additional specific elements in the Fire Management and Prevention Plan to address fire safety during Project operations. Implementation of MM FIRE-1 would ensure the impact from operation of the solar facility is less than significant.

Solar arrays and photovoltaic modules are fire-resistant and would not be susceptible to ignition from fires. In a potential wildfire situation, the panels would be rotated and stowed in a panel-up position that could slow the spread of a fire. Therefore, during a potential wildfire event, operation of the solar facility would not exacerbate a fire or expose workers or nearby residents to fire hazards.

The BESS would be housed in electrical enclosures on concrete foundations designed for secondary containment. Potential electrical fires would be contained within the enclosures and would not spread beyond them. The BESS would be installed following all applicable design, safety, and fire standards for BESSs, including NFPA and CFC requirements. Furthermore, MM FIRE-1 includes a measure to include information about the type of BESS technology on site, potential hazards, and procedures for disconnecting or shutting down the BESS in case of an accidental fire. The enclosures would have air conditioners or heat exchangers and inverters. A 150,000-gallon water tank may also be required for each BESS area. Compliance with these design and safety regulations and implementation of MM FIRE-1 would reduce the danger of fires spreading uncontrollably and causing loss, injury, or death. Furthermore, MM FIRE-1 also includes training and coordination requirements so that emergency first responders are prepared to address battery fires or explosions at the BESS area and are knowledgeable of appropriate firefighting methods for BESS fires. The impact would be less than significant with mitigation.

The gen-tie line, like the solar facility and BESS, would be located in a desert setting with scattered lowgrowing vegetation. The gen-tie structures would be constructed on concrete foundations such that the areas immediately surrounding the poles would not be flammable. Portions of the gen-tie line may also be placed underground, which would further reduce the risk of fire. As discussed in Impact FIRE-3, regular inspections and maintenance of electrical components and trimming of vegetation would ensure all components are in good working order and that vegetation fuel load is minimal. Drone inspections in compliance with NERC Transmission Vegetation Management requirements would ensure that gen-tie lines and structures are not damaged and would minimize the risk of electrical fires. Implementation of MM FIRE-1 would ensure that workers and emergency first responders are trained to properly handle accidental fires, and would further reduce the risks associated with fires to a level of less than significant.

7-9

Less THAN SigNIFICANT, DecomMissioNING. As discussed in Impact FIRE-3, the solar facility, BESS, gen-tie line, and other electrical infrastructure would be dismantled and removed from the Project site. Once the Project is decommissioned, the solar facility would no longer generate electricity, and the BESS, gen-tie line, distribution lines, and other electrical components would not store or conduct electricity. The removal of solar panels, BESS, gen-tie line, power lines, and other electrical components during decommissioning would essentially eliminate fire risk associated with the electrical infrastructure. After the Project is decommissioned, no power lines, BESS, or other components with a fire risk would exist at the site. The site would not pose a risk of loss, injury, or death involving wildfires. Therefore, no impact would occur once the Project is decommissioned.

Mitigation Measures for Impact FIRE-4

MM FIRE-1 Fire Safety. See full text in Section 3.19.<u>79</u> (Mitigation Measures).

Significance After Mitigation

This impact would be less than significant.

*** The impact analyses for all Project alternatives have been moved to EIR Section 5. ***

3.19.6. Cumulative Impacts

Geographic Scope

The area of Desert Center is the geographic scope for the cumulative impact analysis of wildfire impacts. This area has a sparsely vegetated landscape and a low potential to ignite and facilitate wildfires, therefore, the greatest potential for cumulative impacts relating to wildfire impacts would primarily be during the construction phase of projects in close vicinity to the proposed Project. Tables 3.1-1 and 3.1-2 list existing and reasonably foreseeable projects in the region. These projects include the Desert Sunlight Solar Project, SCE Red Bluff Substation, Devers-Palo Verde No. 1 Transmission Line, Blythe Energy Project Transmission line, Desert Harvest Solar Project, Athos Renewable Energy Project, Oberon Renewable Energy Project, Arica and Victory Pass Solar Projects, Eagle Mountain Pumped Storage Project, Sapphire Solar Project, and Skybridge Eagle Mountain Hydrogen Project, Colorado River-Red Bluff 500 kV #1 Line Upgrade and Devers-Red Bluff 500 kV #1 and #2 Lines Upgrade in Riverside County. Recent CAL FIRE Incident Data from 2015 through 2022 was reviewed for the Desert Center region, and no incidents occurred in the span of five years (CAL FIRE, 2022). As such, this area does not have a high risk of wildfires.

Cumulative Impact Analysis

Cumulative impacts regarding wildfire hazards generally occur if multiple projects were to be constructed and operated in overlapping schedules in a High or Very High FHSZ. Additionally, cumulative wildfire impacts are more likely to occur if the projects involve construction of flammable structures, such as houses or other buildings. Combined with a geographic area prone to wildfires, such as a densely forested area or chapparal-dominated landscape, the wildfire effects of multiple developments could combine to be cumulatively considerable. <u>None of these factors is present here.</u> If adopted, the proposed expansion of Joshua Tree National Park and creation of Chuckwalla National Monument would re-designate existing federal lands in the Project vicinity, which would reduce the opportunity for new development in the region that could contribute to cumulative impacts related to wildfire.

7-9

Short-term cumulative impacts would occur during construction and decommissioning if the Project schedule overlaps with multiple other nearby projects. However, projects in the cumulative scenario would be required to comply with local, State, and federal fire hazard policies, the CFC, and include their own fire management plans and best management practices. Furthermore, the proposed Project, as well as the surrounding projects, would all occur in a Moderate FHSZ with no dense vegetation to spread a potential fire. Therefore, there would not be a significant cumulative impact related to wildfire, and the Project, in combination with the nearby projects, would not make a cumulatively considerable contribution to impacts related to fire hazards.

Mitigation Measures for Cumulative Impacts

Mitigation Measures MM TRA-1 and MM FIRE-1 would <u>reduce the Project's contribution to the already</u> <u>less-than-significant cumulative wildfire impacts</u> implemented to address potential wildfire impacts for the proposed Project. No additional mitigation would be required.

Significance After Mitigation

<u>Cumulative impacts would be less than significant.</u> The Project's incremental contribution to wildfire impacts would not be cumulatively considerable.

3.19.7. Mitigation Measures

- **MM TRA-1 Construction Traffic Control Plan.** See full text in Section 3.18.9–<u>7</u> (Traffic and Transportation).
- **MM FIRE-1** Fire Safety. The Fire Management and Prevention Plan prepared by the Project owner to ensure the safety of workers and the public <u>and minimize fire risk</u> during construction, operation and maintenance, and decommissioning for the Project shall include, but not be limited to, the following elements:
 - Procedures for minimizing potential ignition, including, but not limited to, vegetation clearing, parking requirements/restrictions, idling restrictions, smoking restrictions, proper use of gas-powered equipment, and hot work restrictions.
 - Work restrictions during Red Flag Warnings and High to Extreme Fire Danger days.
 - All internal combustion engines used at the Project site shall be equipped with spark arrestors. Spark arrestors shall be in good working order.
 - Once new access roads have been cut and initial fencing completed, light trucks and cars shall be used only on roads where the roadway is cleared of vegetation. Mufflers on all cars and light trucks shall be maintained in good working order.
 - Fire rules shall be posted on the Project bulletin board at the contractor's field office and areas visible to employees.
 - Equipment parking areas and small stationary engine sites shall be cleared of all flammable materials.
 - Smoking shall be prohibited in all vegetated areas and within 50 feet of combustible materials storage and shall be limited to paved areas or areas cleared of all vegetation.

 Each construction site (if construction occurs simultaneously at various locations) shall be equipped with fire extinguishers and fire-fighting equipment sufficient to extinguish small fires.

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- The Project owner shall coordinate with BLM and RCFD to create a training component for emergency first responders to prepare for specialized emergency incidents that may occur at the Project site, including incidents such as fire or explosion at or with the BESS.
- The plan shall include information about the type of BESS technology on site, potential hazards, and procedures for disconnecting or shutting down the BESS in case of fire or to reduce the chance of fire.
- All construction workers, plant personnel, and maintenance workers visiting the plant and/or transmission lines to perform maintenance activities shall receive training on fire prevention procedures, the proper use of firefighting equipment, and procedures to be followed in the event of a fire. Training records shall be maintained and be available for review by BLM and RCFD. Fire prevention procedures shall be included in the Project's Worker Environmental Awareness Program.
- Vegetation near all solar panel arrays, ancillary equipment, and access roads shall be controlled through periodic cutting and spraying of weeds, in accordance with the Weed Management Plan.
- BLM and RCFD shall be consulted during plan preparation and fire safety measures recommended by these agencies included in the plan.
- The plan shall list fire prevention procedures and specific emergency response and evacuation measures that shall be required to be followed during emergency situations.
- All on-site employees shall participate in annual fire prevention and response training exercises with the BLM and RCFD.
- The plan shall list all applicable wildland fire management plans and policies established by state and local agencies and demonstrate how the Project will comply with these requirements.
- The Project owner shall designate an emergency services coordinator from among the full-time on-site employees who shall perform routine patrols of the site during the fire season equipped with a portable fire extinguisher and communications equipment. The Project owner shall notify BLM and RCFD of the name and contact information of the current emergency services coordinator in the event of any change.
- Remote monitoring of all major electrical equipment (transformers and inverters) will screen for unusual operating conditions. Higher than nominal temperatures, for example, can be compared with other operational factors to indicate the potential for overheating which under certain conditions could precipitate a fire. Units could then be shut down or generation curtailed remotely until corrective actions are taken.
- Fires ignited on site shall be immediately reported to BLM and RCFD.
- The engineering, procurement, and construction contract(s) for the Project shall provide reference to or clearly state the requirements of this mitigation measure.
- The Project owner must provide the Fire Management and Prevention Plan to BLM for review and approval and to RCFD for review and comment before construction.

4. OTHER CEQA CONSIDERATIONS

Chapter 4 includes discussions of various topics required by CEQA. These topics include Section 4.1, significant and unavoidable impacts, which summarizes the conclusions presented in Chapter 3; Section 4.2, significant irreversible and irretrievable changes; Section 4.3, growth-inducing effects; Section 4.4, energy consumption; Section 4.5, Other Public Concerns; and Section 4.6, Caltrans CEQA Summary.

4.1. Significant and Unavoidable Environmental Impacts

4.1.1. Significant Direct Effects of the Solar Facility

As required by the CEQA Guidelines Section 15126.2(b), an EIR must describe any significant impacts that cannot be avoided, including those impacts that can be mitigated but not reduced to a less-thansignificant level. Where there are impacts that cannot be alleviated without imposing an alternative design, their implications, and the reasons the Project is being proposed, notwithstanding their effect, should be described. Chapter 3 of this EIR describes the proposed Project's potential environmental impacts and recommends mitigation measures to reduce impacts, where feasible. Impacts to the following resources would be significant and unavoidable with construction and operation of the proposed Project, even with the incorporation of feasible mitigation measures that attempt to reduce impacts to the extent feasible.

Note that these conclusions apply to the Project as proposed, <u>the No Project Alternative (A3: Other</u> <u>Renewable Energy Development within Existing Land Designations)</u>, and the Lake Tamarisk Alternative (Alternative <u>B2</u>), and the Further Reduced Footprint Alternative with Berms (Alternative C) (except for <u>views from Lake Tamarisk Desert Resort</u>), described in Chapter 2, but not to the No Project Alternative (A1 and A2), Offsite Alternative (Alternative D), or Distributed Commercial and Industrial Rooftop Solar Alternative (Alternative E), which would eliminate the significant and unavoidable visual impacts. However, the Offsite Alternative (Alternative D) would likely create new significant and unavoidable impacts to biological resources.

Aesthetics

Impact <u>AES-1AES-3</u>. In non-urbanized areas, would the Project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points). If the Project is in an urbanized area, would the Project conflict with applicable zoning and other regulations governing scenic quality?

The Project could substantially degrade the existing visual character or quality of the site and its surroundings. The resulting visual change would be adverse and unavoidable even with implementation of mitigation, when viewed from all Key Observation Points (KOPs).

Impact AES-3. Would the Project result in the creation of an aesthetically offensive site open to public view?

The Project's high visual change discussed under Impact AES-1 would result in a significant aesthetics impact under Impact AES-3 as well. Additionally, the O&M impacts would remain significant and unavoidable.

Agriculture and Forestry

Impact AG-1. The Project would conflict with existing zoning for agricultural use, a Williamson Act contract, or land within an agricultural preserve.

There are seven parcels within the Project site that are subject to a Williamson Act contract and related agricultural preserve program. The proposed solar Project is not an allowable use under the Williamson

Act program and, therefore, its construction and operation on lands would be a significant and unavoidable impact with lands in an agricultural preserve and related Williamson Act contract. Cancellation of the Williamson Act contract must occur prior to approval of the conditional use permit for the Project. If the Williamson Act contracts are cancelled at the time of the EIR certification, this impact would be avoided.

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Impact AG-3. The Project would conflict with land within a Riverside County Agricultural Preserve.

There are seven parcels within the Project site that are subject to a Williamson Act contract and related agricultural preserve program, which is incompatible with the Project; therefore, this conflict with an agricultural preserve would be significant and unavoidable. However, if the Williamson Act contracts are canceled prior to EIR certification, this impact would be avoided.

4.1.2. Significant Cumulative Effects

According to section 15355 of the State CEQA Guidelines, the term *cumulative impacts* "refers to two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts." Individual effects that may contribute to a cumulative impact may be from a single project or several separate projects. Individually, the impacts of a project may be relatively minor, but when considered along with impacts of other closely related or nearby projects, including newly proposed projects, the effects could be cumulatively considerable.

The cumulative scenario and analysis methodology is included in Section 3.1 of this EIR. This EIR has considered the potential cumulative effects of the Project for each issue area in Chapter 3 and for alternatives in Chapter 5. Impacts of these projects are cumulatively considerableed when they are combined with impacts from past, present, and reasonable future projects. Impacts would be considered cumulatively significant for the following issue area<u>s</u>:

- Aesthetics: The cumulative scenario includes many large-scale solar plants and transmission lines whose scale and pervasiveness would have adverse cumulative effects to aesthetics. If all the projects were implemented, they would introduce substantial visual contrast associated with discordant geometric patterns in the landscape and large-scale, built facilities with prominent industrial character; create unnatural lines of demarcation in the valley floor landscape and inconsistent color contrasts; and add visible night lighting within the broader Chuckwalla Valley. As a result, the proposed Project, in combination with the 13 local energy projects, would contribute to significant cumulative visual impacts when viewed by sensitive viewing populations along Interstate 10 and SR-177/Rice Road, from nearby residences, from portions of JTNP, and in the surrounding mountains and wilderness. Effective implementation of Mitigation Measures AES-1 (Surface Treatment of Project Structures and Buildings), MM AES-2 (Project Design), MM AES-3 (Night Lighting Management), and MM BIO-5 (Vegetation Resources Management Plan) would reduce the severity of the Project's contribution to the cumulative visual effects, though the Project's contribution would still be considerable.
- Cultural and Tribal Cultural Resources: While the visual changes resulting from the Project would be in kind with the current nature and scale of existing visible developments, the addition of more industrial components to the Chuckwalla Valley, as a result of the Project in combination with past projects, other current projects, and probable future projects, would contribute to adverse visual impacts to the Prehistoric Trails Network Cultural Landscape (PTNCL), particularly from character defining features within the PTNCL. The Project would implement Mitigation Measures CUL-1 through MM CUL-6, MM TCR-1, MM TCR-2, AES-1 and AES-2, which would avoid and minimize impacts to characteristics of the landscape, reducing project-level impacts to less than significant. Cumulative projects would likely be required to implement similar measures. However, cumulative visual impacts to the

PTNCL would remain significant, and the Project's incremental contribution would be cumulatively considerable.

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4.2. Irreversible and Irretrievable Commitments of Resources

CEQA Guidelines Section 15126.2 requires a discussion of any irreversible or irretrievable commitments of resources that implementation of a proposed project or alternative would cause. CEQA Guidelines Section 15126.2(c) states "[u]ses of nonrenewable resources during the initial and continued phases of the project may be irreversible since a large commitment of such resources makes removal or nonuse thereafter unlikely." Both primary and secondary impacts of a project generally commit future generations to similar uses. Also, irreversible damage can result from environmental accidents associated with a project. Irretrievable commitments of resources should be evaluated to assure that such current consumption is justified. Therefore, the purpose of this discussion is to identify any significant irreversible environmental changes brought about by the Project.

Resources irreversibly or irretrievably committed to a proposed Project are those used on a long-term or permanent basis. This includes the use of nonrenewable resources such as petroleum fossil fuel resources, petrochemical products, metals such as raw material for steel, aggregate minerals including sand and gravel, and other natural resources. These resources are considered irretrievable in that they would be used for a proposed project when they could have been conserved or used for other purposes. Another irreversible or irretrievable commitment of resources is the unavoidable destruction of natural resources that could limit the range of potential uses of that environment.

Construction of the proposed Project or alternative would commit nonrenewable resources during construction and ongoing utility services during operations. Recycling would be in accordance with application California state requirements.³⁹ The proposed Project would install solar PV panels manufactured from metals, such as thin-film panels (including cadmium telluride [CdTe or "cad tel"] and copper indium gallium diselenide [CIGS] technologies), crystalline silicon panels, bifacial panels, or any other commercially available PV technology. Some of these materials would consist of earthen minerals. During operation, oil, gas, and other nonrenewable resources would be consumed for maintenance purposes, although on a limited basis. See Section 3.7 (Energy) for more information.

At the end of its useful life, the Project would be decommissioned, and the land would be available for restoration to open space or other compatible uses. The Applicant would restore the site to the pre-solar facility conditions, or such condition as appropriate in accordance with project approvals and decommissioning plan.

Upon ultimate decommissioning, most components would be suitable for recycling or reuse, and decommissioning would be designed to optimize such salvage as circumstances allow and in compliance with all local, state, and federal laws and regulations as they exist at the time of decommissioning (see Section 2.6, Decommissioning and Repowering). If the Project is decommissioned and dismantled, some of the natural resources on site could be retrieved.

The Project is a renewable energy project intended to generate solar energy to reduce reliance on fossil fuels. Over the life of the Project, the renewable energy project would contribute incrementally to the reduction in demand for fossil fuel used to generate electricity, thereby resulting in a positive effect counteracting the commitment of nonrenewable resources to the Project. A full discussion on the Project's impacts related to energy consumption is provided in Section 3.6 (Energy).

³⁹ As of January 1, 2020, CALGreen requires covered projects to recycle and/or salvage for reuse a minimum 65% of the nonhazardous construction and demolition waste or meet a local construction and demolition waste management ordinance, whichever is more stringent.

4.3. Growth Inducing Impacts

CEQA Guidelines Section 15126.2(d) requires analysis of the growth-inducing impact of the project. The discussion should identify the ways in which a project could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment. This includes projects that remove obstacles to population growth, such as by extending public services into areas not previously served. Growth inducement can also result from actions that encourage development or encroachment into surrounding areas or encourage adjacent development. According to State CEQA Guidelines Section 15126.2(d), growth should not be assumed to be beneficial, detrimental, or of little significance to the environment.

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This growth inducing impact analysis considers the following four criteria, and whether the Project would result in:

- Removal of an obstacle to growth, e.g., establishment of an essential public service or the provisions of new access to an area;
- Economic expansion or growth, e.g., changes in revenue base or employment expansion, that would require construction of new facilities that could cause significant environmental effects;
- Establishment of a precedent-setting action, e.g., a change in zoning, or general plan amendment approval; or
- Encouraging development or encroachment into an isolated area or open space.

Should a project meet any one of the criteria listed above, it can be considered growth-inducing.

Removal of an obstacle to growth. The proposed Project would result in the conversion of substantial open space to a developed land use. The Project would be located on private and BLM-administered lands designated as a DFA to allow for development of solar energy generation and appurtenant facilities on public lands in this specific area. The Project would not result in the establishment of an essential public service to lands not currently served by public services nor would it provide new access to previously inaccessible areas. As a result, the Project would not cause significant growth inducement under this criterion.

Economic expansion or growth. Short-term economic growth could occur during the construction and decommissioning periods because the proposed Project could create a demand for workers that may not be met by the local labor force, thereby inducing in-migration of non-local labor and their households. Given the number of solar projects proposed in the Desert Center area, workers may temporarily stay in the area. However, construction of the proposed Project alone, nor cumulatively with any of the proposed nearby projects which are also primarily solar projects, would create a significant number of long-term construction jobs that could result in significant population growth. Therefore, the construction phase of the Project is not considered to permanently result in economic expansion or growth, as it would be temporary by definition.

Following construction, up to 10 permanent staff could be on the site at any one time for ongoing solar facility maintenance and repairs. Alternatively, approximately 2 permanent staff and 8 Project operators would be located off site and would be on call to respond to alerts generated by the monitoring equipment at the Project site. The Project's workforce could contribute to an increase in tax revenues for the State of California and Riverside County; however, the limited permanent employment expansion would not result in the need for new or physically altered community-serving facilities. As a result, the proposed Project would not be growth-inducing for its effects on economic expansion or growth.

Establishment of a precedent-setting action. The Project would result in the development of a solar and energy storage facility and a gen-tie line in the vicinity of other existing and approved solar projects and

in an area identifiedy by planning documents as appropriate for renewable development. The Project would be similar to the other cumulative projects in eastern Riverside County, many of which are identified as past and present projects or probable future projects (EIR Section 3.1.2, Cumulative Impact Scenario). The Project would not establish a precedent-setting action such as a change in zoning or general plan amendment. Therefore, the Project would not be growth inducing under this criterion.

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Development or encroachment into an isolated area or open space. The proposed Project would result in a change to undeveloped land in an area surrounded by proposed, existing or under-construction solar projects. The proposed Project, as with a number of adjacent solar projects, would be located on private lands and BLM-administered lands designated as a DFA to allow for development of solar energy generation and appurtenant facilities on public lands in this specific area. The Project would not encroach into lands planned for future residential development. The Project is located approximately 750 feet from a residential development. Although the Project is within close proximity to a community, the Project is not considered to have the potential to encourage or push residential development. The Project site is remote and existing/planned land use patterns do not indicate that residential development was planned in the area. Therefore, the proposed Project would not result in growth inducement through development or encroachment into an isolated area or open space.

4.4. Energy Consumption

In order to assure that energy implications are considered in project decisions, CEQA requires that EIRs include a discussion of the potential energy impacts of proposed projects, with particular emphasis on avoiding or reducing the "wasteful, inefficient, and unnecessary consumption of energy" (see Public Resources Code section 21100(b)(3)). According to Appendix F: Energy Conservation, within the State CEQA Guidelines, the goal of conserving energy implies the wise and efficient use of energy including:

- Decreasing overall per capita energy consumption;
- Decreasing reliance on fossil fuels such as coal, natural gas and oil; and
- Increasing reliance on renewable energy sources.

Lead agency actions that are consistent with these goals would not be likely to cause an energy-related impact. For this analysis, an impact related to energy conservation would be considered potentially significant if the Project would cause inefficient, wasteful, and unnecessary consumption of energy.

Energy Implications of the Proposed Project. The proposed Easley Renewable Energy Project itself would develop a renewable source of power, which would help to offset the use of nonrenewable resources and contribute to an overall reduction of nonrenewable resources currently used to generate electricity.

The Project would produce up to nearly 860,000 megawatt-hours (MWh) of electricity annually, based on the generating capacity of 400 MW at a capacity factor of 26 percent, which would be achievable by a typical solar PV system in eastern Riverside County, minus transmission line losses.

Solar-powered production of electricity would further the energy goal of the State CEQA Guidelines by decreasing reliance on fossil fuel-fired electric generating facilities, primarily by decreasing use of natural gas in California, and by increasing reliance on renewable energy sources.

This EIR in Section 3.9 (Greenhouse Gas Emissions) describes additional effects on climate change/greenhouse gas (GHG) emissions that would be caused by implementation of the Easley Renewable Energy Project, such as the GHG emissions avoided by producing electricity from solar power.

Discussion of Potential Energy Impacts. This analysis addresses the following types of potential energy-related impacts, which are outlined in Appendix F of the State CEQA Guidelines:

- Would the Project result in substantial new energy requirements or significant energy use inefficiencies for any stage of Project construction, operation, maintenance, and/or removal? The proposed Project would produce electricity adding to California's supply of renewable energy resources. Each stage of proposed Project construction, operation, maintenance, and removal, including decommissioning, would require direct energy use through the consumption of fossil fuels in the form of petroleum products that fuel equipment and vehicles, and the use of electricity for powering onsite equipment and facilities. Indirect energy use would include the energy required to refine raw materials and manufacture the components used in construction of the Project. This would include energy used for extraction of raw materials, manufacturing, and transportation associated with manufacturing. Energy used during construction, operation, maintenance, and removal, including decommissioning would be necessary in the implementation of the proposed Project, which would become an electricity producer upon its operation. Accordingly, the proposed Project would not result in an inefficient, wasteful, or unnecessary consumption of energy, and the proposed Project energy requirements would not be substantial or result in significant energy use inefficiencies during any stage.
- Would the Project cause a significant adverse effect on local and regional energy supplies and on requirements for additional capacity? The development activities and O&M of the proposed Project would consume fossil fuels and some electricity for powering onsite equipment and facilities. Providing diesel and gasoline for Project-related consumption of transportation fuels would not require any additional capacity in the eastern Riverside County regional supply or distribution network. Upon entering commercial service, the proposed Project would become an electricity producer adding to California's supply of renewable energy resources. Because the proposed gen-tie line would provide the capacity to interconnect and ultimately deliver the electrical output of the solar facility, the proposed Project would not exceed local capacity to meet the demand for electricity.
- Would the Project cause a significant adverse effect on peak and base period demands for electricity and other forms of energy? Overall per capita energy consumption would not be expected to change as a result of the proposed Project. The proposed Project would involve no change in how retail electric service is provided and no change in energy efficiency or energy conservation programs implemented by the utilities serving the peak and base period demands for electricity. The proposed Project would result in no notable change in demand for peak-period or base period electricity from the grid.
- Would the Project disrupt compliance with existing energy standards? Development activities and O&M of the proposed Project would consume fossil fuels and some electricity for powering onsite equipment and facilities. Vehicles and equipment, and onsite buildings, would need to conform with fuel efficiency standards and building energy efficiency standards established by California's existing programs promoting energy conservation. Similarly, the end-users of electricity that is produced by the proposed Project would be subject to California's existing energy conservation programs. The proposed Project would not disrupt compliance with existing energy standards or have any adverse effect on potential compliance with energy conservation standards.
- Would the Project cause a significant adverse effect on energy resources? The proposed Project would add to California's supply of renewable energy resources by increasing the production of renewable energy for end-users of electricity in California. The proposed Project would not cause an adverse effect due to inefficient, wasteful, or unnecessary energy use.
- Would the Project result in significant adverse effects related to transportation energy use? Development activities and O&M of the proposed Project would use transportation fuels and providing diesel and gasoline for Project-related consumption of transportation fuels would not require any additional

capacity in the eastern Riverside County regional supply or distribution network. Due to the small permanent workforce and the limited need for deliveries or waste hauling during O&M of the solar facility, the transportation energy use would be minimal in comparison with the electricity produced. The proposed Project would not cause an adverse effect due to inefficient, wasteful, or unnecessary transportation fuel use.

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4.5. Other Public Concerns

This section discusses issues raised in the scoping effort conducted by the Riverside County Planning Department, that are not discussed in Section 3 because the issues raised are outside of the scope of CEQA.

4.5.1. Property Values

A frequent scoping comment related to land use was concern over the potential loss of property value as a result of solar projects being developed nearby.

The Lake Tamarisk Desert Resort (LTDR) is a 55-plus, member-owned community 2 miles north of I-10 in Desert Center. In 1984, the property was acquired and an abandoned 1960s era manmade lake, golf course, and swimming pool on the property were restored. In addition to its community facilities and amenities, the Lake Tamarisk community includes individual homes and RV lots. The vicinity around LTDR has been identified as highly suitable for development of renewable energy projects, particularly solar projects. Several large-scale solar projects are now in operation in eastern Riverside County where LTDR is situated, and additional solar projects are under construction or planned.

LTDR and Desert Center residents have expressed their concerns about the potential effect of large solar projects on property values. A large study from Lawrence Berkeley National Laboratory (LBNL) found that houses within 0.5 mile of a utility-scale solar farm have resale prices that are, on average, less than houses that are a little farther away (Elmallah, 2023). In particular, homes within 0.5 mile of large-scale photovoltaic projects experienced an average home price reduction of 1.5 percent compared to homes 2 to 4 miles away; statistically significant effects were not measurable over 1 mile from a large-scale solar project.

The study's authors analyzed 1.8 million home sales between 2003 and 2020 near solar farms in six states. The study found diminished property values in three states: Minnesota (4 percent), North Carolina (5.8 percent) and New Jersey (5.6 percent). However, the three other states—California, Connecticut, and Massachusetts—had price changes that were within the margins of error for the study,⁴⁰ which means the price effects were too close to zero to be meaningful. The study reports that while large-scale photovoltaic projects have an average adverse effect on home prices, impacts are not uniform across geographies, land uses, or solar project size. The study concludes that the effect of renewable energy projects on property values is small on average, but it is not zero. The authors' research focused on property values and did not consider positive or off-setting impacts of solar development, such as local tax revenue and employment.

Overall, the LBNL study results suggest that for homes very close to a project and those predominantly in rural agricultural settings around larger projects, there are adverse property value impacts of large-scale photovoltaic solar project construction. However, most impacts fade at distances greater than 1 mile from a project. The study notes that although the authors found adverse impacts from large-scale solar projects on property values overall, they notably found no statistically significant evidence of impacts in three

⁴⁰ The LBNL study reports that the states where the authors observed no statistically significant difference in sales price (in CA, CT, and MA) are also the states with lower proportions of large-scale photovoltaic project development on agricultural land. In addition, California has very few transactions in rural areas.

states in their study area – including in California, which alone accounts for over half of the transactions in their dataset.

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A smaller 2020 study by researchers at the University of Rhode Island looked at about 400,000 real-estate transaction in Rhode Island and Massachusetts within 3 miles of solar sites and found that the value of houses within 1 mile of a solar project decreased by an average of 1.7 percent following construction of the solar project (Gaur and Lang, 2020). The study sample consisted of 208 solar installations, 71,337 housing transactions within 1 mile, and 347,921 transactions between 1 and 3 miles distant.

Based on limited studies, it appears that there could be a small adverse effect on property values at Lake Tamarisk attributable to a solar project being located within 0.5 mile. The LBNL study found that for California property transactions any effect was within the margin of error of the study.

Economic effects, including effects on property value, are not a topic included in CEQA assessments of proposed projects. However, State CEQA Guidelines §15131 notes that "[e]conomic or social information may be included in an EIR or may be presented in whatever form the agency desires." The Guidelines also note that "[e]conomic or social effects of a project are not to be treated as significant effects on the environment" (§15131(a)), although "[e]conomic or social effects of a project" (§15131(b)). The Guidelines also note that "CEQA requires the decision-making agency to balance, as applicable, the economic, legal, social, technological, or other benefits, including region-wide or statewide environmental benefits, of a proposed project against its unavoidable environmental risks when determining whether to approve the project." (§15093(a))

Although it is conceivable that there could be some reduction in property value owing to the proximity of a large-scale solar project, based on the LBNL study the effect on properties in California appears to be small, if any. Given the CEQA guidance, this would not be considered a significant effect on the environment.

4.5.2. Solar Moratorium

Commenters <u>during scoping</u> expressed a desire for a moratorium on permitting of solar projects with 5 miles of Lake Tamarisk Desert Resort until the 2012 BLM Western Solar Plan is revised and defines setbacks and exclusion zones around communities and that these are agreed upon by the Lake Tamarisk Community.

Establishing a moratorium or buffer is beyond the scope of the CEQA review for the proposed Project. That would require specific actions by the County for lands under its jurisdiction, and by BLM for lands under its jurisdiction. Since the 2012 Western Solar Plan was issued, the BLM has recognized that updating and expanding the Solar Energy Program would be appropriate to advance current and future renewable energy goals and to support conservation and climate priorities. On December 8, 2022, BLM issued a Notice of Intent (NOI) to prepare a Programmatic EIS to evaluate utility-scale solar energy planning and amend Resource Management Plans for renewable energy development. The comment period on the NOI closed on March 1, 2023.

After consideration, the BLM has chosen not to include the area under the DRECP (which includes BLM lands in eastern Riverside County) in the current effort as the BLM believes the DRECP supports an acceptable balance between conservation and renewable energy opportunities within its planning area boundary. The BLM has noted that the Solar Programmatic EIS will not interrupt the processing of existing or new solar energy development applications. BLM decisions to authorize solar energy development projects will continue to conform to the BLM's approved resource management plans, including as those plans might be amended following the completion of the Solar Programmatic EIS.

Note that an alternative that incorporates a 1-mile buffer around the Lake Tamarisk community is described in Section 2.8 and has been analyzed in Chapter 3 the EIR under Alternative C, Further Reduced Footprint Alternative with Berms.

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4.5.3. Nuisance Animal Encounters

The scoping effort revealed that several commentors were concerned about an increase in occurrence of termites and rattlesnakes. The commentors stated that residents of the nearby Lake Tamarisk Desert Resort have reported an increase in the amount of termite swarms and rattlesnake encounters and have attributed this to the increase in disturbance due to solar development in Desert Center.

4.5.3.1. Termites

Subterranean termites, the type of termite found in Desert Center, lives underground in family groups called colonies. During daylight hours of the spring months, large numbers of winged termites will emerge from soils to leave their parent colonies in order to mate and establish new colonies of their own. These are king and queen termites called swarmers, who will pair up and fly together to search for a place to begin a new nest. Once they land, their wings break off and they start their colony by excavating a small chamber where they mate, reproduce, and grow the colony. Mating continues by the king and queen termite, and the offspring begin creating exploratory tunnels to find wood, which they eat for food. These tubes used to travel underground can range from a few yards to the size of a football field (120 yards). Termites can travel above ground in tubes they build with mud and fecal material to protect themselves from predators and to retain their moisture (Miller, 2010).

Climate change increases the opportunities for the introduction, spread, and persistence of invasive species, such as termites. Termite ranges are expected to significantly increase globally in the following years, partly attributed to climate change and warming temperatures. Economic and ecological damage caused by termites will also increase as a result of this (Buczkowski and Bertelsmeier, 2017). The EPA determines that increasing temperatures and wetter or drier climates will favor increased populations in species such as termites, as they can flourish or expand in the changing climate (EPA, 2010).

The potential increase in termites at the Lake Tamarisk Desert Resort could be driven by climate change and warming temperatures, as described above. As stated above, a termite can travel up to 120 yards, or 360 feet underground. The Easley Project would be at least 750 feet from the Lake Tamarisk Desert Resort.

Methods for controlling subterranean termites include insecticides applied to the soil adjacent to the structure, directly to nests, or through bait stations. Termites can infest wood that is in contact with soil, so maintaining a barrier of inorganic material between the soil surface and structural wood is one recommendation. Other management strategies include using termite resistant wood or other materials, keeping wood away from structures, providing ventilation to substructures to keep them dry, and repairing foundation cracks and exterior defects. To facilitate control of subterranean termites, destroy their shelter tubes whenever possible to interrupt access to wooden substructures (Lewis, 2014).

4.5.3.2. Rattlesnakes

Scoping comments revealed that, along with termites, residents of Desert Center are experiencing an increase in rattlesnake sightings compared to the past. Some explanations include disturbance due to solar developments, or temperature changes due to climate change.

According to one study (Lomas et al. 2019), rattlesnakes in undisturbed areas had larger home ranges and longer home range lengths compared to individuals in disturbed areas. The study also found that rattlesnakes in highly disturbed areas did not move greater total distances or have higher movement rates.

Rattlesnakes are highly sensitive to temperature changes, due to their ectothermy which requires that they rely on ambient environmental temperatures to maintain critical physiological processes. Due to this sensitivity, rattlesnakes may have smaller ranges due to climate change (Olson and Saenz, 2013). One study by Putman and Clark (2017) showed that as climate change continues and mean daily air temperature rises, rattlesnakes decreased hunting activity at night, and increased movement and distance moved during the day.

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Rattlesnake translocation is a method used to remove rattlesnakes from populated areas where they are a "nuisance" which is typically public and residential areas. This is an increasingly common management practice in the southwestern United States (Nowak, 2018). The Nowak study concluded that the survival rate of translocated rattlesnakes is low, however, the Brown study on short distance translocation found no evidence that translocation affected the mortality of rattlesnakes. Translocating rattlesnakes is not a successful long-term strategy, as the rattlesnakes have been shown to return to the location they were removed from (Brown et al. 2010). Both studies showed that rattlesnakes translocated at any distance increased their movement distances and the frequency at which they move. This phenomenon could potentially increase the activity range for snakes in the Desert Center area.

The increase in development in Desert Center contributes to a greater amount of ground disturbance. However, the Lomas study found that rattlesnakes in highly disturbed areas did not move greater total distances or have higher movement rates. Climate change may contribute to this issue by causing the rattlesnakes to be more active during the daytime, although climate change may contribute to smaller ranges. Translocation is a management strategy used during construction (and operation?) of solar projects in the Desert Center area, which could contribute to an increase in distance the snakes travel in this area, however, studies show that rattlesnakes generally return to where they were translocated from. Therefore, the increase in disturbance in Desert Center is likely not the cause of an increase in rattlesnake sightings in residential areas, but this cannot be confirmed. The increase in sightings of rattlesnakes could be a result of the snakes being more active during the daytime hours.

4.6. California Department of Transportation CEQA Summary

4.6.1. Introduction

The purpose of this section is to address Caltrans permit requirements and to aid in their environmental review with regards to biological resources, cultural and paleontological resources, and soil contamination. The improvements described herein are evaluated throughout the EIR as part of the Project. This analysis highlights the relevant analysis to assist Caltrans. Proposed Project access points and crossings of State Route (SR)-177/Rice Road are subject to Caltrans requirements including ingress/egress driveways or installation of any overhead/underground lines in or across the Caltrans right-of-way (ROW). Caltrans will require permitting for four features of the Easley Renewable Energy Project that would be located within the Caltrans' ROW for SR-177/Rice Road. These include:

- Temporary Construction Access;
- Overhead or Underground Medium Voltage Line Crossing;
- 500 kV Overhead Crossing; and
- Permanent Operations Access.

SR-177/Rice Road is a two-lane north/south highway between Desert Center/I-10 and SR-62, approximately 25 miles northeast of Desert Center (Figure 3.18-1 in Appendix A). The posted speed limit is 65 mph. In 2020, at its junction with I-10, SR-177/Rice Road carried had approximately 2,900 Average Daily Travel (ADT) with a peak hour ADT of 470.

At this stage, the Project does not have final engineering completed, and therefore, the locations where encroachment permits from Caltrans are not finalized. Additionally, the locations may be different based on which alternative is approved by Riverside County and BLM. Therefore, this analysis considers all potential locations where improvements are proposed for the proposed Project and alternatives. This area covers approximately 5 miles of Rice Road, with a 500 feet buffer on either side of the ROW, as shown on Figure 3.18-1 and Figures 4-1A/B through 4-4A/B in EIR Appendix A.

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4.6.2. Description of Project Features within Caltrans ROW

4.6.2.1. Temporary Construction Access

Access off of SR-177/Rice Road to the Project site would include two new construction access roads from SR-177/Rice Road. At each location, access roads would enter the project site from both sides of SR-177/Rice Road. Driveway approaches would conform to current and applicable Caltrans' specifications. Figure 4-1A in Appendix A provides the conceptual location of a Project construction access temporary roads. Construction of the access road segments would include compacting subsurface soils and placing a four-inch-thick layer of asphalt concrete over a 6-inch-thick layer of compacted aggregate base to prevent track-out onto public roads.

Flagging operations at site access points may be implemented during construction if/when traffic control needs are indicated through either monitoring traffic operations during construction or determined to be required during construction stage planning.

For Alternative <u>B</u>², the onsite substation and BESS locations would be moved at least 0.7 miles to the northeast (farther from the community of Lake Tamarisk), on either BLM-administered land (Substation Alternative A) or private land adjacent to SR-177/Rice Road (Substation Alternative B) (see EIR Section 2.8.3 and Figure 4-1B in Appendix A). For Alternative C, the onsite substation and BESS locations would also be located on private land adjacent to SR-177/Rice Road (see EIR Section 2.8.4 and Figure 2-15 in Appendix A). Under Alternative D (Offsite Alternative), the substation and BESS would be located on BLM-administered land to the east of SR-177/Rice Road, approximately 1 mile north of the Oberon Substation.

4.6.2.2. Overhead or Underground Medium Voltage Line Crossing

As described in Section 2.3.2, panels would be electrically connected into panel strings using wiring secured to the panel racking system. Underground cables would be installed to convey the direct current (DC) electricity from the panels via combiner boxes located throughout the PV arrays, to inverters located at the Power Conversion Station that would convert the DC to alternating current (AC) electricity. The output voltage of the inverters would be stepped up to the required collection system voltage at pad mount transformers located near the inverters within the Power Conversion Station and combined into 34.5 kV collection cables.

The 34.5 kV collection cables would be buried underground and/or installed overhead on wood poles to connect all of the solar facility development areas to the onsite substation, which would involve an overhead or underground crossing of SR-177/Rice Road to connect the solar panels located to the east of SR-177/Rice Road to the onsite substation. Underground collector lines from the solar arrays would be installed under SR-177 using directional drilling which would not affect traffic on the highway. If the collection system is installed overhead, wood poles would be located on either side of SR-177/Rice Road. The typical height of the poles would be approximately 30 to 60 feet, with diameters varying from 12 to 20 inches (see Figure 2-9, Typical 34.5 kV Medium Voltage Line Structures, in Appendix A). For overhead crossings, temporary guard structures would be installed during conductor wire stringing to prevent the conductor from falling on the roadway. These guard structures would be located outside of the Caltrans

ROW. Figures 4-2A and Figure 4-2B in Appendix A provide conceptual underground and overhead crossings of SR-177/Rice Road for the proposed Project and Alternative 2, respectively.

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4.6.2.3. Gen-tie Overhead Crossing

The Project 500 kV gen-tie line would be located within a 175-foot ROW and start at the onsite substation on the west side of SR-177/Rice Road. The gen-tie line would exit the substation and travel approximately 0.2-mile to cross SR-177/Rice Road, where it would turn southwest to parallel the eastern side of SR-177/ Rice Road for 1.1 miles before turning east (see EIR Section 2.3.4 and Figure 3.18-1 in Appendix A).

The Project gen-tie line would be constructed with either monopoles, lattice steel structures, or wooden H-frame poles. At the crossing of SR-177/Rice Road, one gen-tie support structure would be located on either side of SR-177/Rice Road outside of the Caltrans ROW. Conductor, pull and tensioning and temporary work areas required for stringing would also be located outside of the Caltrans ROW on either side of SR-177/Rice Road. For the gen-tie overhead crossing, temporary guard structures would be installed during conductor wire stringing to prevent the conductor from falling on the roadway. These guard structures would be located outside of the Caltrans ROW. Figure 4-3A in Appendix A provides the conceptual design of the gen-tie overhead crossing of SR-177/Rice Road.

Overhead gen-tie construction, including stringing conductor across Highway-177/Rice Road, could require the short-term temporary closure lanes on SR-177/Rice Road (see EIR Section 3.18). Helicopters would likely be used for wire stringing activities including hanging travelers, pulling conductor and optical ground wire (OPGW), dead-end activities, and the installation of bird diverters for the gen-tie line (see EIR Section 2.4.6.1). All helicopter operations would be in accordance with Riverside County and BLM approved Helicopter Use Plan, and all aircraft, pilots, linemen, and mechanics would be in full compliance with applicable FAA requirements and standards.

For Alternative 2, the 500 kV gen-tie line from the Alternative substation location would exit the substation to the south and would cross SR-177/Rice Road before turning to the southwest to parallel the roadway on BLM land within the Easley site to rejoin the proposed route where it would cross SR-177/Rice Road onto the Oberon Project (see EIR Section 2.7.3 and Figure 4-3B in Appendix A).

4.6.2.4. Permanent Operations Access

Upon commissioning, the Project would enter the operations phase. The solar modules at the site would operate during daylight 7 days a week, 365 days a year. Permanent operations access would be via locked gates located at two primary access points (see Figures 4-4A and Figure 4-4B in Appendix A for the proposed Project and Alternative 2, respectively). The Project access points off of SR-177/Rice Road would be turning lanes (or as dictated by Caltrans) to ensure safety. Turning lanes and driveways would be paved to prevent trackout.

4.6.3. Environmental Review

4.6.3.1. Biological Resources

The Biological Resources Technical Report (BRTR) discusses biological information that was used as the baseline for impact assessments for the Project, including those in the vicinity of SR-177/Rice Road (see Appendix C). The descriptions of the biological resources in the BRTR were the basis of the environmental analysis in the EIR (see EIR Section 3.5).

Vegetation. Vegetation communities in the Project site were mapped and classified by botanists, using Holland 1986 and cross-referencing with A Manual of California Vegetation, 2nd edition (Sawyer et al. 2009) and the National Vegetation Classification System (NVCS) referenced in the DRECP (CDFW and AIS 2022). Vegetation was mapped by drawing vegetation polygons on aerial images in the field. These field

maps were then digitized into GIS shapefiles using ArcGIS Pro and one-foot pixel aerial imagery on a diagonal flat screen monitor at the office. Most mapped vegetation boundaries are accurate to within approximately 10 feet (3 meters). Vegetation communities in the vicinity of the SR-177/Rice Road improvements include creosote bush scrub and man-made features that include deciduous orchard/ fallow agriculture and urban/developed land (see Figures 4-5A and 4-5B in Appendix A). Vegetation types tend to be patchy. Small patches of one named type are often included within mapped polygons of another type. The size of these patches varies, depending on the minimum mapping units and scale of available aerial imagery.

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Focused plant surveys were performed in spring 2020 and 2022 and included visual coverage across the entire Project site. Surveyors employed belt transects spaced at-approximately 20 meters apart. Transects were spaced at-10-meters apart in areas not previously surveyed in the preceding fall season. Surveys along the gen-tie line within the Oberon Project site were conducted between fall 2019 and Spring 2020. Special-status plants observed in the vicinity of SR-177/Rice Road include *Proboscidea althaeifolia* (desert unicorn plant) and *Funastrum utahense* (Utah vine milkweed) (see Figures 4-5A and 4-5Bb). Desert unicorn plant was found throughout the Project area, primarily in desert dry wash woodland in the southern half of the site and <u>in fallow agricultural -landsdirectly-</u> along the western boundary of SR-177/Rice Road-along the western boundary of the road. One individual Utah vine milkweed was observed <u>in fallow agricultural lands on the east side of the Project, west of along the</u> SR-177/Rice Road. Other special-status plants that were not observed, but that have potential to occur on the Project site based on the presence of suitable habitat are described in the BRTR (Appendix C, Section 4.2). One barrel cactus, protected by the CDNPA, was observed within 800 feet east of SR-177/Rice Road.

Wildlife. Ironwood Consulting conducted full-coverage wildlife surveys in the Project area between fall 2019 and summer 2022. Surveys of the Oberon Project site, where the gen-tie line is located, were performed between fall 2019 and summer 2020. Surveys were performed focusing on protocols for desert tortoise and burrowing owl. Wildlife surveys conducted in 2019-2022 conformed to full coverage desert tortoise protocol surveys with 10-meter transects on the Project site (Ironwood, 2023a; Ironwood, 2021a). Wildlife surveys were repeated for each site at 20-meter belt transects, consistent with 2012 CDFW burrowing owl protocol surveys. The surveys identified all burrows and all evidence of wildlife use, including use by desert tortoise, burrowing owl, and desert kit fox. During all wildlife surveys, biologists recorded all wildlife species observed, regardless of status. The BRTR provides a compilation of special-status wildlife with potential to occur in the Project vicinity and evaluates probability of occurrence for each species based on habitat, elevational and geographic ranges, and field survey results. The complete methods and results of the surveys are provided in the BRTR (see EIR Appendix C).

Special-status wildlife observed in the vicinity of the SR-177/Rice Road include black-tailed gnatcatcher, burrowing owl <u>(candidate for State listing)</u>, <u>loggerhead shrike</u>, and desert kit fox (see Figures 4-6A and 4-6B, and BRTR, Figures 10 through 12 in Appendix C). There was one observation of an individual black-tailed gnatcatcher on the <u>southern edge eastern side</u> of the Project<u>and one observation south of the Project, south of SR-177/Rice Road</u>, although suitable foraging and potential nesting habitat for this species is provided throughout the Project site. One burrowing owl burrow was observed south of the Project site approximately 500 feet west of SR-177/Rice Road. One burrowing owl burrow with whitewash was observed along the northern portion of the gen-tie line on the Oberon Project site. <u>Five loggerhead shrikes were observed in the Project site are part of a complex with multiple entrances</u>. During surveys, twenty-one active desert kit fox burrows or complexes with dig marks, tracks, and/or scat were observed within the Easley Project site (Figure 3.5-8 in Appendix A). The closest burrows, whether inactive or active, are approximately 500 feet either east or west of SR-177/Rice Road (see Figures 4-6A and 4-6B).

Other special-status wildlife that were not observed, but that have potential to occur on the Project site based on the presence of suitable habitat are described in the BRTR (Appendix C, Section 4.1). No live individuals or active sign of desert tortoise, a federally and State threatened species, were observed; however, class 4 and 5 carcasses were observed in the southwest portion of the Project site over 0.5 mile from SR-177/Rice Road. Along the gen-tie line in the eastern portion of the Oberon Project site, desert tortoise tracks, burrows, and carcasses were observed in desert dry wash woodland approximately 2.5 miles southeast of SR-177/Rice Road. The gen-tie line overlaps with critical habitat for desert tortoise, located in the southern portion of the Oberon Project site. Suitable habitat for Crotch bumble bee, a candidate for State listing, is present, however they are unlikely to occur due to the presence of nearby anthropogenic uses. Other state listed species that have potential to occur are Gila woodpecker, Swainson's hawk, and elf owl. Federally listed migratory birds may briefly use the Project site as stopover habitat, including Yuma Ridgway's rail, yellow-billed cuckoo, and least Bell's vireo.

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Construction and O&M activities may result in direct and indirect impacts to special-status plants and wildlife, including loss of individuals and their habitat, along SR-177/Rice Road. No listed threatened or endangered plant species were observed or have the potential to occur on the Project site or in the vicinity. The gen tie line overlaps with critical habitat for desert tortoise, located in the southern portion of the Oberon Project site, although no live tortoises were observed. Impacts would be avoided, minimized, and mitigated with implementation of mitigation measures specified in EIR Section 3.5.9 for biological resources. Compliance with applicable CMAs on BLM lands would further minimize impacts of the proposed Project and alternatives.

4.6.3.2. Cultural and Paleontological Resources

The cultural resources impact analysis in this EIR was based on records of previously recorded cultural resources in the area (Dyste et al., 2023) and the Riverside County Phase I and BLM Class III survey reports completed by Chronicle Heritage (formerly PaleoWest) (Clark et al., 2023; Hinojosa et al., 2023). Three historic-era cultural resources were identified within the vicinity of the proposed permanent improvements to State Route 177 (SR-177)/Rice Road as part of the current Project. These include the road itself, SR-177/Rice Road (P-33-025150), a series of linear earthen berms (P-33-022247) and a mobile home park (HL-BE-004H). SR-177/Rice Road was previously determined eligible for the CRHR in 2019 for the Athos Renewable Energy Project (Riverside County, 2019). Portions of the resource were analyzed by Caltrans for the Athos and the Oberon renewable energy projects for a similar need, and it was determined the turnouts would not diminish the integrity of the resource (Tennyson, 2023). Additionally, any possible impacts to the resource would be avoided, minimized, and mitigated with implementation of mitigation measures specified in EIR Section 3.6.9 for cultural and tribal cultural resources. Compliance with applicable CMAs on BLM lands would further minimize impacts of the proposed Project and alternatives.

P-33-022247 and HL-BE-004H both abut the SR-177/Rice Road permanent improvements work areas. Resource P-33-022247, consisting of a series of linear earthen berms, was previously determined not eligible for the NRHP by the BLM in 2021 with SHPO concurrence (SHPO, 2021). The Phase I study completed for the current Project recommended the resource not eligible for listing on the CRHR. Resource HL-BE-004H, a mobile home park, was recommended not eligible for either the CRHR or NRHP during Phase I and Class III surveys for the current Project.

No paleontological resources were found on the surface during surveys on the Easley site. Paleontological monitoring will occur during construction and no resources have been identified in the vicinity of SR-177/Rice Road. Impacts would be avoided, minimized, and mitigated with implementation of mitigation measures specified in EIR Section 3.14.9 for paleontological resources.

4.6.3.3. Soil Contamination

The soil contamination impact analysis in this EIR was based on a desktop study of the State Water Resources Control Board (SWRCB) GeoTracker and Department of Toxic Substance Control (DTSC) EnviroStor websites. No known listed hazardous material or contaminated sites were found at the Project site or immediately adjacent to the site. Impacts would be avoided, minimized, and mitigated with implementation of mitigation measures specified in EIR Section 3.10.9 for hazards and hazardous materials.

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4.6.3.4. Transportation and Traffic

EIR Section 3.18 (Transportation and Traffic) discusses potential impacts from construction with respect to traffic and transportation for the proposed Project. The analysis concludes that while SR-177/Rice Road would not be affected by underground directional drilling for the collection lines, overhead gen-tie construction would require the temporary installation of guard structures during conductor wire stringing to prevent the conductor from falling on the roadway. To reduce or avoid potential impacts from Project vehicle trips and gen-tie construction, Mitigation Measures MM TRA-1 (Construction Traffic Carpool and Trip Reduction Plan) and TRA-2 (Repair Roadways and Transportation Facilities Damaged by Construction Activities) are included as part of the Project. These measures include:

- MM TRA-1 Construction Traffic Control Plan. Prior to the start of construction, the Project owner shall submit a Construction Traffic Control Plan for review and approval by Caltrans and Riverside County for affected roads and intersections that would be directly affected by the construction activities and/or would require permits and approvals. The Construction Traffic Control Plan shall include, but not be limited to:
 - If multiple construction projects occur at the same time and conditions at the intersection warrant, plans for installation of a temporary signal or use of manual intersection control during the construction period at the I-10 westbound ramp at SR-177. Additionally, if conditions warrant, geometry changes shall be considered in coordination with Caltrans and Riverside County, and implemented, if necessary, in addition to signalization at the I-10 westbound ramp and SR-177. These geometry changes could include a turn pocket.
 - The locations and use of flaggers, warning signs, barricades, delineators, cones, arrow boards, etc., according to standard guidelines outlined in the Manual on Uniform Traffic Control Devices, the Standard Specifications for Public Works Construction, and/or the California Joint Utility Traffic Control Manual.
 - The locations of all road or traffic lane segments that would need to be temporarily closed or disrupted due to construction activities.
 - The locations where guard poles, netting, or similar means to protect transportation facilities for any construction or conductor installation work requiring the crossing of a local street highway is proposed.
 - The use of continuous traffic breaks operated by the California Highway Patrol on state highways (if necessary).
 - Additional methods to reduce temporary traffic delays to the maximum extent feasible during morning (7:00 a.m. to 9:00 a.m.) and afternoon (4:00 p.m. to 6:00 p.m.) peak traffic periods, or as directed in writing by the affected public agency in encroachment or other permits). This should also include feasible ways to reduce construction-related trips on I-10, SR-177, and Kaiser Road during peak traffic periods.

- Plans to encourage or provide ridesharing/carpooling opportunities for construction and operational workers.
- Incorporation wildlife protection measures, as required in MM BIO-6.

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Plans to provide written notification to property owners and tenants at properties affected by access restrictions to inform them about the timing and duration of obstructions and to arrange for alternative access if necessary. The coordination shall occur at least one week prior to any blockages.

Plans to coordinate in advance with emergency service providers to avoid restricting the movements of emergency vehicles. Police departments and fire departments shall be notified in advance by the Project owner of the proposed locations, nature, timing, and duration of any roadway disruptions, and shall be advised of any access restrictions that could impact their effectiveness. At locations where roads will be blocked, provisions shall be ready at all times to accommodate emergency vehicles, such as immediately stopping work for emergency vehicle passage, providing short detours, and developing alternate routes in conjunction with the public agencies.

Define the method to maintaining close coordination, prior to and during construction, with Caltrans and Riverside County to minimize cumulative impacts of multiple simultaneous construction projects affecting shared portions of the circulation system. Coordination with adjacent development projects to spread work shifts into multiple hours (instead of peak hour) or the installation of additional temporary traffic signals or manual traffic control officers during peak hours to mitigate the temporary impacts.

MM TRA-2 Repair Roadways and Transportation Facilities Damaged by Construction Activities. If roadways, sidewalks, medians, curbs, shoulders, or other such transportation features are damaged by Project construction activities, as determined by the affected public agency, such damage shall be repaired and restored to their pre-Project condition by the Project owner. Prior to construction, the Project owner shall confer with Caltrans and Riverside County regarding the roads within 500 feet in each direction of Project access points (where heavy vehicles will leave public roads to reach Project sites) and regarding the roads to be crossed by the proposed gen-tie line. At least 30 days prior to construction, or as requested by Riverside County or Caltrans, the Project owner shall photograph or video record all affected roadway segments and shall provide Riverside County and Caltrans with a copy of these images, if requested.

At the end of major construction, the Project owner shall coordinate with each affected jurisdiction to confirm whether repairs are required. Any damage demonstrable to the Project is to be repaired to the pre-construction condition within 60 days from the end of all construction, or on a schedule mutually agreed to by the Project owner and the affected jurisdiction. If multiple projects are using the transportation features, the Easley Project owner shall pay its fair share of the required repairs. the Project owner shall provide Riverside County and Caltrans (as applicable) proof when any necessary repairs have been completed.

With the incorporation of Mitigation Measures TRA-1 (Construction Traffic Control Plan) and MM TRA-2 (Repair Roadways and Transportation Facilities Damaged by Construction Activities), impacts resulting from temporary construction-related disruptions to the affected circulation system were determined to be less than significant.

While the addition of temporary construction worker commute trips on SR-177/Rice Road would significantly increase the amount of average daily trips compared to existing conditions (without the Project), they would not affect existing transit uses or corridors and are presumed to cause a less than significant transportation impact.

5. <u>ANALYSIS AND</u> COMPARISON OF ALTERNATIVES

5.1. CEQA Requirements for Alternatives

Section 15126.6(a) of the State California Environmental Quality Act (CEQA) Guidelines states that an Environmental Impact Report (EIR) "shall describe a range of reasonable alternatives to the project, or to the location of the project, which would feasibly attain most of the basic objectives of the project, but would avoid or substantially lessen any of the significant effects of the project, and evaluate the comparative merits of the alternatives." Further, an EIR need not consider every conceivable alternative to a project. Rather, it must consider a reasonable range of potentially feasible alternatives that will foster informed decision making and public participation. An EIR is not required to consider alternatives that are infeasible. The CEQA Guidelines state that factors that may be considered when determining the feasibility of alternatives are "site suitability, economic viability, availability of infrastructure, general plan consistency, other plans or regulatory limitations, jurisdictional boundaries (projects with a regionally significant impact should consider the regional context) and whether the proponent can reasonably acquire, control, or otherwise have access to the alternative site (or the site is already owned by the proponent)" [CEQA Guidelines Section 15126.6(f)(1)].

Additionally, the No Project Alternative must be analyzed. The EIR must explain the rationale for selecting the alternatives to be discussed, identify those that were not carried forward because they were infeasible, and briefly explain why these were not carried forward. The "environmentally superior" alternative to the Project must be identified and discussed (see Section 5, Comparison of Alternatives). If the environmentally superior alternative is the No Project Alternative, the EIR must identify an additional "environmentally superior" choice among the other Project alternatives.

As presented below, a variety of alternatives to the Project were considered to determine potential alternatives which might produce fewer significant impacts, or reduce the severity of those significant impacts, than the proposed Project, including the No Project Alternative. Possible alternatives were assessed as to whether they would satisfy the following:

- The alternative is technically feasible;
- The alternative would avoid or substantially lessen any of the significant impacts of the proposed <u>Project; and</u>
- The alternative would attain most of the basic proposed Project objectives defined in Section 1.3.

Alternatives considered included the No Project Alternative and those associated with a revised configuration of the solar and BESS facility. The No Project Alternative and other alternatives carried forward for evaluation in Section 5.1 are presented in Section 2.8. An alternative comparison is provided in Section 5.2. Alternatives considered, but not carried forward for further analysis are presented in Section 2.9.

5.2. Alternatives Analyzed in Detail

5.2.1. <u>Summary of Alternatives</u>

This section includes detailed evaluations of the following action alternatives and an evaluation of a No Project Alternative, as required under CEQA.

No Project Alternatives A1, A2, and A3. Under the No Project Alternative, the construction of a solar generating facility and associated infrastructure would not occur. This alternative discusses existing conditions as well as what would be reasonably expected to occur in the foreseeable future if the Project was not approved and does not take place. Three scenarios are considered: a no build alternative

(A1) and development of uses allowed by right within the existing zoning and land designations (A2), and development of other renewable energy within the existing zoning and land designations (A3).

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- Alternative B: Reduced Footprint Alternative. Under the Reduced Footprint Alternative, the Project would be similar to the proposed Project but would move the onsite substation and BESS and would remove approximately 50 acres of solar panels closest to the community of Lake Tamarisk, such that the solar panels, substation, and BESS would be farther from the community of Lake Tamarisk compared to the proposed Project. The electrical output and energy storage capacity would be reduced by up to 10 MW compared to the proposed Project.
- Alternative C: Further Reduced Footprint Alternative with Berms. Alternative C would include a greater than one-mile buffer around the community of Lake Tamarisk, installation of 2 earthen berms, and relocation of the substation, BESS, and O&M building.
- Alternative D: Offsite Alternative. Under the Offsite Alternative, the Project would be constructed on BLM-administered lands located east of State Route 177/Rice Road. These alternative parcels were included in the Applicant's original development application to BLM.
- Alternative E: Distributed Commercial and Industrial Rooftop Solar Alternative. A Distributed Solar Alternative would consist of PV panels that would absorb solar radiation and convert it directly to electricity. The PV panels could be installed on residential, commercial, or industrial building rooftops, parking lots or areas adjacent to existing structures such as substations. To create a viable alternative to the proposed Project, there would have to be sufficient newly installed panels to generate up to 400 MW of capacity, which would be similar in size to the proposed Project.

5.2.2. No Project Alternative A1: No Build Alternative – Impact Analysis

5.2.2.1. <u>Aesthetics</u>

The No Project Build Alternative would not develop the solar facility and gen-tie line or require new construction and/or operational activities. It would not conflict with any existing or future land use plans or zoning, nor would it conflict with the applicable VRM Class IV management objective, which allows for a high level of visual change. The No Project Build Alternative would avoid the significant visual impacts that would occur along I-10 and SR-177, at Alligator Rock ACEC, and at Lake Tamarisk Desert Resort as documented in the analyses for KOPs 1 through 6. Therefore, the No Project Build Alternative would not cause direct, indirect, or cumulative impacts to aesthetics.

5.2.2.2. Agriculture and Forestry

The No Project Build Alternative would not result in any new construction and/or operational activities or any new associated ground-disturbing activities. The No Project Build Alternative would not conflict with any agricultural activities or agricultural land. Therefore, the No Project Build Alternative would not have direct, indirect, or cumulative impacts on agriculture and forestry resources. Under the No Project Alternative, it is probable that other solar energy related projects would be implemented within the site in lieu of the proposed Project in the near or distant future. A different solar energy project would potentially result in similar impacts to those identified for the proposed Project. Under the No Project Build Alternative, cancellation of the Williamson Act contract would not be required and the lands would no longer be under contract in 9 years from non-renewal due to recent filing of non-renewal notices. They could be available for solar development in the future, and they would be allowed within the current A 1 zoning for the subject parcels.

5.2.2.3. <u>Air Quality</u>

The No Project Build Alternative would not result in any new construction and/or operational activities or any new associated ground-disturbing activities (solar panel installation, substation and O&M building, and construction of access roads and gen-tie line). The No Project Build Alternative would cause no sources of air pollutant emissions from development activities. Accordingly, the No Project Build Alternative would represent no change to the environmental setting. Because no new air pollutant emissions would occur with the No Project Build Alternative, this alternative would have no direct, indirect, or cumulative impact related to air quality.

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Under the No Project Alternative, it is probable that other solar energy-related projects would be implemented within the site in lieu of the proposed Project. A different solar energy project would potentially result in similar air quality impacts as those identified for the proposed Project.

5.2.2.4. Biological Resources

Under the No Project-Build Alternative, no construction or O&M would occur and there would be no Project-related impacts to biological resources. Vegetation, including special-status plants and sensitive communities, would not be removed, existing habitat areas would persist, and wildlife would not be displaced. Special-status species would not be impacted. Disturbance, injury, and mortality of wildlife would not occur as a result of Project activities. Wildlife movement within the Project area would not be limited; however, solar development in the vicinity of the Project area would continue through other projects and wildlife movement may still be affected within the DFA (see Tables 3.1-1 and 3.1-2, as well as Figure 2-4 in Appendix A).

5.2.2.5. <u>Cultural and Tribal Cultural Resources</u>

Under the No Project Build Alternative, the Project would not be constructed so there would be no impact to historical or tribal cultural resources. Other projects or linear facilities could potentially be developed at this location, because it is located on land designated as a DRECP Development Focus Area (DFA), but any future project(s) would be evaluated under separate CEQA and/or NEPA analyses.

5.2.2.6. Energy

The No Project Build Alternative would not result in any new construction or new operational activities. Therefore, the No Project Build Alternative would not affect energy resources in the Project area. However, the No Project Build Alternative would also not contribute to meeting California's renewable energy goals and would not provide the renewable benefits of the Project. The No Project Build Alternative would have no direct, indirect, or cumulative effect on energy resources, while the proposed Project would have adverse impacts related to energy that are less than significant, while generating beneficial renewable energy.

Under the No Project Alternative, it is probable that other solar energy-related projects would be implemented within the site in lieu of the proposed Project in order to fulfill State mandates for renewable energy. A different solar energy project would potentially result in similar impacts to energy resources as those identified for the proposed Project, although those impacts would vary based on location and the specific characteristics of another solar project proposal.

5.2.2.7. Geology, Soils, and Mineral Resources

The No Project-Build Alternative would not result in the development of the solar facility and gen-tie line nor require new construction and/or operational activities, as described in Section 2.8. As such, the envi-

ronmental impacts associated with the proposed Project, as described in Section 3.8.5, would not occur. The No Project Build Alternative would not result in any direct, or cumulative impacts to or related to geologic and seismic hazards, soils, or mineral resources. Therefore, the No Project Build Alternative would not have impacts related to geology, soils, or mineral resources.

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5.2.2.8. Greenhouse Gas Emissions

The No Project Build Alternative would not result in any new construction and/or operational activities or any new associated ground-disturbing activities (solar panel installation, substation and O&M building, and construction of access roads and gen-tie line). The No Project Build Alternative would cause no direct, or cumulative emissions of GHG from development activities. No additional production of renewable power would occur, and there would be no new potential to displace fuel-burning by California's fossil fueled generating resources or electricity otherwise imported to California. Accordingly, the No Project Build Alternative would also not contribute to meeting California's renewable energy goals. Because no new GHG emissions would occur with the No Project Build Alternative, this alternative would have no impact related to GHG emissions.

5.2.2.9. Hazards and Hazardous Materials

The No Project Build Alternative would not result in the development of the solar facility and gen-tie line nor require new construction and/or operational activities, as described in Section 2.8. As such, the <u>direct</u>, <u>indirect</u>, <u>or cumulative</u> environmental impacts associated with the proposed Project, as described in Section 3.10.5, would not occur. The No Project Build Alternative would not result in any direct or indirect impacts related to hazardous materials, environmental contamination, triggering wildland fires, or aviation hazards. Therefore, the No Project Build Alternative would not have impacts related to hazardous materials.

5.2.2.10. Hydrology and Water Quality

There would be no construction under the No Project Build alternative. Therefore, no direct, indirect, or cumulative impacts to hydrology and water quality would result. The area's water quality would remain in the existing condition, as would flood patterns. There would be no potential for increasing flood potential either on-site or off-site. By comparison, the proposed Project would result in impacts that would be less than significant with mitigation.

5.2.2.11. Land Use and Planning

Under the No Project Build Alternative, the Applicant would not develop the solar facility and gen-tie line nor require new construction and/or operational activities associated with such a facility. This alternative would not conflict with any existing or known future land use plans or zoning. Therefore, as with the proposed Project, the No Project Build Alternative would not have direct, indirect, or cumulative significant-impacts related to land use.

5.2.2.12. Noise and Vibration

The No <u>Project Build</u> Alternative would not result in any new construction and/or operational activities or any new associated ground-disturbing activities (solar panel installation, substation and O&M building, and construction of access roads and gen-tie line). The No <u>Project Build</u> Alternative would cause no new noise sources or noise-generating activities. Accordingly, the No <u>Project Build</u> Alternative would represent no change to the environmental setting. Because no new sources of noise or vibration would occur with

the No <u>Project_Build_</u>Alternative, this alternative would have no<u>direct, indirect, or cumulative</u> impact related to noise and vibration.

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5.2.2.13. Paleontological Resources

The No Project Build Alternative would not result in the development of the solar facility and gen-tie line nor require new construction and/or operational activities, as described in Section 2.8. As such, the environmental impacts associated with the proposed Project, as described in Section 3.14, would not occur. The No Project Build Alternative would not result in any direct or indirect impacts to paleontological resources. Therefore, the No Project Build Alternative would not have direct, indirect, or cumulative impacts related to paleontological resources.

5.2.2.14. Population and Housing

The No Project Build Alternative would not result in any new construction and/or operational activities or any new associated ground-disturbing activities (solar panel installation, substation and O&M building, and construction of access roads and gen-tie line). The No Project Build Alternative would not affect population growth or demand for additional housing in the Project area. Therefore, the No Project Build Alternative would not have direct, indirect, or cumulative impacts to population and housing, while the proposed Project would have impacts that are less than significant to these resources.

5.2.2.15. Public Services and Utilities

The No Project Build Alternative would not result in any new construction and/or operational activities or any new associated ground-disturbing activities (solar panel installation, BESS, and O&M building, and construction of access roads and gen-tie line). The No Project Build Alternative would not impact population growth or demandrequire additional for additional housing in the Project area and therefore would not put any strain on the availability and performance of government facilities, including fire protection, police protection, schools, parks, medical facilities, and libraries. In addition, the No Project Build Alternative would not require new storm water drainage facilities or expansion of existing facilities. The No Project Build Alternative would not result in direct, indirect, or cumulative impacts to public services and utilities, while the proposed Project would have impacts to these resources that are less than significant.

5.2.2.16. Recreation

The No Project Build Alternative would not result in the development of the solar facility and gen-tie line nor require new construction and/or operational activities. It would not result in any direct or indirect impacts to recreation and would not result in the closure or isolation of designated Open Routes on BLM-administered land. Therefore, the No Project Build Alternative would not have direct, indirect, or cumulative impacts to recreation.

5.2.2.17. Traffic and Transportation

The transportation and traffic impacts associated with the proposed Project would not occur under the No Project-Build Alternative A1. Under this alternative there would be no direct, or cumulative impacts associated with temporary vehicle trip generation, VMT, or temporary travel lane disruptions. There would be no physical features that could cause impacts to air navigation.

5.2.2.18. <u>Wildfire</u>

Under the No Project <u>Build</u> Alternative, construction, operation, maintenance, and decommissioning <u>of</u> <u>the proposed Project</u> would not occur. Because construction would not occur, activities that could cause

a fire such as vehicles driving near vegetation, hot work, and storage and use of flammable materials would not occur at the Project site. The BESS, gen-tie line, power lines, and other electrical components would not be installed or operated, and thus, no potential electrical fires associated with such components could occur. The site would remain undeveloped, and public land within the site would remain an allocated DFA.

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5.2.3. <u>No Project Alternative A2: Uses Allowed by Right within Existing Land</u> <u>Designations – Impact Analysis</u>

5.2.3.1. Aesthetics

<u>Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the</u> <u>proposed project would not occur and the BLM-administered lands within the Project area would remain</u> <u>undeveloped and impacts would be as described under No Project Alternative A1 (No Build).</u>

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of scattered rural residences. In the context of the Lake Tamarisk community, existing rural residences, and existing solar facilities, the addition of one or more scattered rural residences would have less than significant direct, indirect, and cumulative impacts on aesthetics.

5.2.3.2. Agriculture and Forestry

Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the proposed project would not occur and the BLM-administered lands within the Project area would remain undeveloped and impacts would be as described under No Project Alternative A1 (No Build).

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of a rural residence. An agricultural related use on the parcels under Williamson Act contracts would resolve any Williamson Act or agricultural preserve-related conflicts. Agriculture is also compatible with a family dwelling, so direct, indirect, and cumulative impacts to agriculture would be less than significant. There are no forestry resources on the proposed site or the surrounding area, so no impacts to forestry would occur.

5.2.3.3. Air Quality

<u>Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the</u> <u>proposed project would not occur and the BLM-administered lands within the Project area would remain</u> <u>undeveloped and impacts would be as described under No Project Alternative A1 (No Build).</u>

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of a rural residence. The level of construction activities and ground disturbance, which could cause fugitive dust, would be much reduced compared to the proposed Project. Therefore, Alternative A2 would cause minor sources of air pollutant emissions from agriculture and/or residential development activities. Direct, indirect, and cumulative potential impacts to air quality would be less than significant.

5.2.3.4. Biological Resources

<u>Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the</u> proposed project would not occur and the BLM-administered lands within the Project area would remain <u>undeveloped and impacts would be as described under No Project Alternative A1 (No Build)</u>. In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of a rural residence. Agricultural use and residential development would not be subject to the Project mitigation measures designed to protect biological resources, but would be subject to laws designed to protect listed species. Because the private land parcels within the Project area are previously disturbed (low value habitat) and residential development would be subject to grading and building permit codes and regulations, impacts to biological resources under Alternative A2 would be less than significant.

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5.2.3.5. <u>Cultural and Tribal Cultural Resources</u>

<u>Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the</u> <u>proposed project would not occur and the BLM-administered lands within the Project area would remain</u> <u>undeveloped and impacts would be as described under No Project Alternative A1 (No Build).</u>

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of a rural residence.

While the level of ground disturbance on the private parcels would be reduced compared to the proposed Project, the Project site has the potential to contain previously unknown archaeological deposits that may underlie the ground surface. Agricultural use and residential development would not be subject to tribal consultation under Assembly Bill 52 nor the Project mitigation measures designed to protect cultural and Tribal Cultural Resources. Should buried archaeological deposits be uncovered during agricultural use or residential development, and should such resources qualify as historical resources under CEQA, they could be subject to significant impacts.

5.2.3.6. <u>Energy</u>

Alternative A2 would result in minimal new construction or new operational activities. Therefore, Alternative A2 would not significantly affect energy resources in the Project area. However, Alternative A2 would also not contribute to meeting California's renewable energy goals and would not provide the renewable benefits of the Project. Depending on the type and intensity of agricultural operations, Alternative A2 is expected to have minimal direct, indirect, or cumulative effect on energy resources, while the proposed Project would have adverse impacts related to energy that are less than significant, while generating beneficial renewable energy.

5.2.3.7. <u>Geology, Soils, and Mineral Resources</u>

<u>Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the</u> <u>proposed project would not occur and the BLM-administered lands within the Project area would remain</u> <u>undeveloped and impacts would be as described under No Project Alternative A1 (No Build).</u>

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of rural residence(s). The level of ground disturbance compared to the Project would be much reduced under Alternative A2. Also, residential development is subject to County building codes and regulations as part of building and grading permits, which are designed to minimize impacts related to geology and soils. Direct, indirect, and cumulative impacts would be less than significant.

5.2.3.8. Greenhouse Gas Emissions

Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the proposed project would not occur and the BLM-administered lands within the Project area would remain undeveloped and impacts would be as described under No Project Alternative A1 (No Build).

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In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of scattered rural residences, which would result in a much-reduced level of GHG emissions compared to construction of the Project. GHG emissions impacts under Alternative A2 would be less than significant.

However, no additional production of renewable power would occur, and there would be no new potential to displace fuel-burning by California's fossil fueled generating resources or electricity otherwise imported to California. Accordingly, the Alternative A2 would also not contribute to meeting California's renewable energy goals.

5.2.3.9. Hazards and Hazardous Materials

<u>Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the</u> proposed project would not occur and the BLM-administered lands within the Project area would remain <u>undeveloped and impacts would be as described under No Project Alternative A1 (No Build).</u>

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of a rural residence. Residential construction would be permitted through compliance with local ordinances and permit requirements, no additional mitigation is assumed to be required. Permits would likely require some level of control of hazardous materials and post-installation inspections to ensure that site clean-up is completed. Potential impacts associated with soil contamination would increase compared to the proposed Project if herbicides and/or pesticides are used during agricultural operations.

5.2.3.10. Hydrology and Water Quality

Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the proposed project would not occur and the BLM-administered lands within the Project area would remain undeveloped and impacts would be as described under No Project Alternative A1 (No Build).

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of rural residence(s). The level of groundwater usage and surface disturbance compared to construction of the Project would be much reduced under Alternative A2. Depending on the type and intensity of agricultural uses, operational water usage could be higher than with the proposed Project. Also, residential development is subject to County building codes and regulations as part of building and grading permits as well as California Drainage Law, which are designed to minimize impacts related to hydrology and water quality. Direct, Indirect, and cumulative potential impacts would be less than significant.

5.2.3.11. Land Use and Planning

Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the proposed project would not occur and the BLM-administered lands within the Project area would remain undeveloped and impacts would be as described under No Project Alternative A1 (No Build).

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of a rural

residence. Agricultural use and residential development are allowed uses and thus consistent with current zoning as well as existing land use plans, policies, and regulations. Alternative A2 would not cause a significant direct, indirect, or cumulative impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.

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5.2.3.12. Noise and Vibration

Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the proposed project would not occur and the BLM-administered lands within the Project area would remain undeveloped and impacts would be as described under No Project Alternative A1 (No Build).

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of a rural residence.

While noise related to agricultural use and scattered residential construction activities could impact sensitive receptors like residences, it is more likely that construction noise would not be noticeable as it would be required to comply with the County Noise Ordinance. The operational noise and vibration generated from these uses would be less than significant as well.

5.2.3.13. Paleontological Resources

<u>Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the pro-</u> posed project would not occur and the BLM-administered lands within the Project area would remain <u>undeveloped and impacts would be as described under No Project Alternative A1 (No Build).</u>

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of rural residence(s). Agricultural use and residential development would not be subject to the Project mitigation measures designed to protect unknown paleontological resources and dictate fossil recovery. However, given past disturbance of the private parcels, it is unlikely that paleontological resources would be present onsite.

5.2.3.14. Population and Housing

<u>Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the</u> proposed project would not occur and the BLM-administered lands within the Project area would remain <u>undeveloped and impacts would be as described under No Project Alternative A1 (No Build).</u>

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of rural residence(s). Construction of a few scatter rural residences under Alternative A2 would not affect population growth or demand for additional housing in the Project area. Therefore, Alternative A2 would not have direct, indirect, or cumulative impacts to population and housing.

5.2.3.15. Public Services and Utilities

<u>Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the</u> <u>proposed project would not occur and the BLM-administered lands within the Project area would remain</u> <u>undeveloped and impacts would be as described under No Project Alternative A1 (No Build).</u>

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of scattered rural residence(s). Scattered development of single-family dwellings would not require additional govern-

ment facilities, including fire protection, police protection, schools, parks, medical facilities, and libraries. In addition, Alternative A2 would not require new storm water drainage facilities or expansion of existing facilities, and would not result in direct, indirect, or cumulative impacts to public services and utilities.

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5.2.3.16. <u>Recreation</u>

<u>Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the pro-</u> posed project would not occur and the BLM-administered lands within the Project area would remain <u>undeveloped and impacts would be as described under No Project Alternative A1 (No Build)</u>.

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of a rural residence, which would not impact public recreational facilities or access.

5.2.3.17. Traffic and Transportation

<u>Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the</u> <u>proposed project would not occur and the BLM-administered lands within the Project area would remain</u> <u>undeveloped and impacts would be as described under No Project Alternative A1 (No Build).</u>

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of a rural residence, which would have minimal direct, indirect, or cumulative impacts to traffic and transportation.

5.2.3.18. <u>Wildfire</u>

<u>Under No Project Alternative A2, construction, operation, maintenance, and decommissioning of the pro-</u> posed project would not occur and the BLM-administered lands within the Project area would remain <u>undeveloped and impacts would be as described under No Project Alternative A1 (No Build).</u>

In the absence of the proposed Project and under the existing County zoning regulations, the private parcels in the Project area may be subject to an agricultural-related use and/or construction of a rural residence. The potential risks associated with residential development are generally addressed in building codes and ordinances specific to fire safety and prevention, and the residual risk would be less than significant. The BESS, gen-tie line, power lines, and other electrical components would not be installed or operated, and thus, no potential electrical fires associated with such components could occur.

5.2.4. <u>No Project Alternative A3: Other Renewable Energy Development within</u> <u>Existing Land Designations – Impact Analysis</u>

5.2.4.1. Aesthetics

In Riverside County, BLM has designated some land under its jurisdiction at Desert Center and west and northwest of Blythe as DFA suitable for development of renewable energy projects. Under the No Project Alternative, the proposed Easley Project would not be developed. However, the DFA-designated land would remain available for development of other renewable energy projects, including a different solar project or, if conditions are suitable, a wind energy project or a geothermal energy project. Impacts to aesthetics from development of a different solar project would be similar to those identified for the Easley Project.

Visual impacts associated with a wind project would include the visual dominance of large wind turbine generators (towers and turbines) in excess of 400 feet tall, potential glint from turbine blades, required Federal Aviation Administration (FAA) obstruction lighting, and presence of on-site project facilities such

as a gen-tie line, a substation, a battery storage facility, access roads network between turbines, and an operations building.

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<u>Visual impacts related to a geothermal project include the presence of buildings and tanks, holding ponds,</u> <u>above ground pipe network, injection well heads, cooling towers or banks, and visible plumes.</u>

The cumulative impacts would be significant when viewed by sensitive viewing populations along I-10 and SR-177, from nearby residences, from portions of Joshua Tree National Park, and in the surrounding mountains and wilderness. The alternative would make a considerable contribution to these visual impacts.

5.2.4.2. <u>Agriculture and Forestry</u>

In Riverside County, BLM has designated some land under its jurisdiction at Desert Center and west and northwest of Blythe as Development Focus Areas (DFAs) suitable for development of renewable energy projects, including solar, geothermal, or wind energy. The DFA lands are not currently used for agriculture or forestry and are not anticipated to be used for these uses. While development of facilities required for solar, wind, or geothermal projects may be primarily located on BLM-administered lands, development on the adjacent agricultural lands may also be required. If the Williamson Act parcels are developed for renewable energy, the cancellation of contracts would be required as it would be for the proposed Project, thereby resolving any Williamson Act or agricultural preserve-related conflicts. This would result in a less than significant impact, similar to the direct, indirect, and cumulative impact of the proposed Project.

5.2.4.3. Air Quality

In Riverside County, BLM has designated some land around Desert Center and west and northwest of Blythe as Development Focus Areas (DFAs) suitable for development of renewable energy projects. Under the No Project Alternative, the proposed Easley Project would not be developed. However, the DFAdesignated land would remain available for development of other allowable renewable energy projects, including a different solar project or, if conditions are suitable, a wind energy project or a geothermal energy project. Impacts to air quality from development of a different solar project would be similar to those identified for the Easley Project.

Impacts to air quality associated with a wind project would include fugitive dust from development of turbine sites and access roads, and earthwork and grading need for installation of a gen-tie line, battery storage facility, and substation. Emissions would result from equipment operating during construction and from worker vehicles and material delivery vehicles.

Impacts related to construction of a geothermal project would be similar impacts to those of a wind or solar energy project. However, operational impacts of a geothermal project would be more severe due to continuous well drilling emissions, visible steam plumes from cooling towers, and from any vented or accidentally released gases from wells, piping, tanks, or ponds.

The cumulative air quality impacts of other renewable energy development would depend on the technology. Cumulative construction-phase emissions would not cause substantial long-term impacts, similar to those identified for the cumulative impacts of the Easley Project. Cumulative effects of operational emissions of other renewable energy development would also be similar to those identified for the Easley Project, except where the renewable technology could introduce new stationary sources of emissions. For example, geothermal project well drilling and vented emissions would be subject to SCAQMD permitting requirements, and these emissions sources would contribute to cumulative air quality impacts that would be worse than those identified for the Easley Project.

5.2.4.4. Biological Resources

In Riverside County, BLM has designated some land under its jurisdiction at Desert Center and west and northwest of Blythe as DFA suitable for development of renewable energy projects using solar, wind, or geothermal technology. Under the No Project Alternative, the proposed Easley Project would not be developed. However, the DFA-designated land would remain available for development of other renewable energy projects, including a different solar project or, if conditions are suitable, a wind energy project or a geothermal energy project. Impacts to biological resources from development of a different solar project would be similar to those identified for the Easley Project.

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Biological resources impacts associated with a wind project would include the potential for significant impacts on birds and bats from striking the turbine blades. Similar to the proposed Project, there would be, loss of habitat and potential direct mortality from construction activities including grading and earthwork needed to install wind turbine generators, a gen-tie line, a substation, a battery storage facility, access roads network between turbines, and an operations building.

<u>Biological impacts resulting from a geothermal project include construction of buildings and tanks, holding ponds, an above ground pipe network, injection well heads, and cooling towers or banks replacing existing habitat and vegetation. Above ground pipelines could disrupt the movement of wildlife species. Vibration and noise from operations may also disturb or displace species sensitive to these effects.</u>

5.2.4.5. Cultural and Tribal Cultural Resources

BLM has designated some land around Desert Center and west and northwest of Blythe as Development Focus Areas (DFAs) suitable for development of renewable energy projects. Under the No Project Alternative, the proposed Easley Project would not be developed. However, the DFA-designated land would remain available for development of other renewable energy projects, including a different solar project or, if conditions are suitable, a wind energy project or a geothermal energy project. Impacts to cultural resources from development of a different solar project would be similar to those identified for the proposed Easley Project.

Cultural resource impacts resulting from a wind project would result from grading and earth work to install wind turbine generators, a gen-tie line, a substation, a battery storage facility, access roads network between turbines, and an operations building. These activities have the potential to affect known and unknown resources, and would be generally similar to those of the proposed Project.

<u>Cultural resources impacts resulting from construction of a geothermal project would result from grading</u> and earthwork to develop buildings and tanks, holding ponds, the above ground pipe network, injection well heads, and cooling towers or banks. These activities have the potential to affect known and unknown resources, and would be generally similar to those of the proposed Project.

5.2.4.6. Energy

BLM has designated some land around Desert Center and west and northwest of Blythe as Development Focus Areas (DFAs) suitable for development of renewable energy projects. Under the No Project Alternative A3, the proposed Easley Project would not be developed. However, the DFA-designated land would remain available for development of other renewable energy projects, including a different solar project or, if conditions are suitable, a wind energy project or a geothermal energy project. Impacts to energy use from development of a different solar project would be similar to those identified for the Easley Project.

Any renewable energy project developed on the DFA lands would provide power to the regional grid, thereby reducing the need for power to be generated using fossil fuels. Once in operation, a wind energy

project with associated storage and transmission facilities would be similar to a solar facility in terms of energy use by maintenance and operations staff. A geothermal facility is likely to have a large operating staff. No renewable energy facility is expected to be wasteful or inefficient in its consumption of energy and any energy required would be more than offset by the power generated by the facility.

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5.2.4.7. <u>Geology, Soils, and Mineral Resources</u>

The proposed Project includes lands designated by BLM as DFAs, which are defined as being suitable for renewable energy development. In the absence of the proposed Project, another renewable energy generation project could be constructed on the Project site to meet the federal and state renewable energy generation goals. This could include a different solar project or, if conditions are favorable, a wind project or a geothermal project. Such a project would create construction and operational direct, indirect, and cumulative impacts related to geologic and seismic hazards, soils, and mineral resources similar to those of the proposed Project.

5.2.4.8. <u>Greenhouse Gas Emissions</u>

Under the No Project Alternative <u>A3</u>, it is probable that other solar <u>renewable</u> energy-related projects would be implemented within the site in lieu of the proposed Project. A different solar energy project <u>or</u> <u>a wind energy project</u> would potentially likely result in similar <u>direct</u>, <u>indirect</u>, <u>and cumulative</u> impacts to GHG emissions as those identified for the proposed Project.

A geothermal energy project would likely have greater GHG emissions during operations because of the ongoing operational well drilling and venting of gases that may contain CO₂, which would increase GHG emissions. This impact would be offset by the amount GHG avoided by not relying on fossil-fuel generation to produce an amount of power equal to that generated by the geothermal project.

5.2.4.9. Hazards and Hazardous Materials

However, i<u>The BLM-administered lands in the Desert Center area are designated as Development Focus</u> Areas (DFAs) in which solar, wind, or geothermal generation could be permitted. In the absence of the proposed Project or an alternative to the Project, the purposes and goals for renewable energy generation that would be met by the proposed Project (or an alternative) would not be achieved. As a result, it is possible that another, <u>similar solar</u> energy generation project would be constructed <u>at the same site in</u> the future to meet the <u>state and federal</u> renewable energy generation goals-in the Desert Center area. Such a project would likely introduce similar impacts related to hazards and hazardous materials that would be introduced through the proposed Project or an alternative.

In the proposed Project is not approved or constructed, the land would could also be developed for other renewable energy projects. If conditions are suitable, a wind energy project or a geothermal energy project could be developed. Hazards and hazardous materials impacts from development of a wind energy project– would include use of solvents and other chemicals, as well as fuels, during construction and operation. Wind turbines would also pose a hazard to aircraft, such as those using the private Desert Center airport near SR-177, and military aircraft that follow training routes through the Desert Center area. In addition to creating physical obstructions, wind turbines can adversely affect radar.

The pPotential hazards and hazardous materials impacts associated with a geothermal energy project are more severe than those of the proposed Project. Geothermal processes include use of chemicals and fuels during construction and operation, potential release of hazardous materials and gases from pipe or tank leaks or venting, and land subsidence due to fluid withdrawals. Geothermal processes may use a closedloop system that reinjects fluids and their contents into groundwater, or an open-loop system in which potential gas emissions can result, including hydrogen sulfide, carbon dioxide, ammonia, boron, and methane. As a result, geothermal projects would have more severe direct, indirect, and cumulative impacts related to hazards and hazardous materials than the proposed Project.

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5.2.4.10. Hydrology and Water Quality

BLM has designated some land under its jurisdiction at Desert Center as a Development Focus Area (DFA), suitable for development of renewable energy projects using solar, wind, or geothermal technologies. Under the No Project Alternative A3, the proposed Easley Project would not be developed, but the DFA-designated land would remain available for development of other renewable energy projects, including a different solar project or, if conditions are suitable, a wind energy project or a geothermal energy project. Impacts to hydrology from development of a different solar project would be similar to those identified for the Easley Project.

Impacts on hydrology and water quality associated with a wind project would be similar or less than for a solar project because less ground disturbance would be required and less water would be required for dust control.

Hydrology and water quality impacts from a geothermal project can include use of large quantities of water for well drilling and by cooling towers. Water consumption during operation of a geothermal facility depends on its technology and design but could be an ongoing high demand, much greater than that of the proposed Project. Impacts from geothermal generation would likely be significant and cumulatively considerable.

5.2.4.11. Land Use and Planning

Under this alternative, the proposed Easley Project would not be developed. However, the BLM land is designated for renewable energy development and it would remain available for use by other renewable energy projects. These projects may include a different solar project or, if conditions are suitable, a wind energy project or a geothermal energy project.

Impacts to land use and planning from development of a different solar project would be similar to those identified for the Easley Project.

A wind energy or geothermal energy project would have many components like those needed for a solar project, including a gen-tie line, a substation, a battery storage facility, access roads turbines, and an operations building. A wind project would disturb less land surface due to the spacing of wind generator towers. A geothermal project would create a major industrial presence in the Desert Center area, including the construction and use of steam turbines, tanks, cooling towers, and ponds. Both wind and geothermal generation facilities would be much more highly visible in the landscape, creating potential conflict with county policies relating to protection of scenic areas and vistas. Each of these facilities would have aspects that would affect land use and planning, such as the height and bulk of structures, the availability of water, and potential exposure of residents to disturbances like noise and pollutants, which may result in greater impacts that the proposed Project.

5.2.4.12. Noise and Vibration

Under the No Project Alternative <u>A3</u>, if the proposed Project is not approved or constructed, the BLM designation of a Development Focus Area may result in the development of other solar project or of wind or geothermal generation projects., it is probable that other solar energy-related projects would be implemented within the site in lieu of the proposed Project. A different solar energy project would potentially likely result in similar noise and vibration impacts as those identified for the proposed Project.

The DFA designation also allows development of wind energy or geothermal energy projects if developers determined that the resources are present for these technologies. Construction impacts of these technologies would be similar to those of the proposed Project, but operational impacts could be more severe. Wind turbine operation creates noise from the mechanical operations of the turbines as well as aero-dynamic factors. These can be a nuisance or they may affect sleep. Geothermal projects are substantially noisier due to their industrial operation requirements. They would generate noise and vibration during well drilling, venting, and from the operation of facilities and equipment, such as fans in cooling towers and the use of pumps.

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The cumulative noise impacts of other renewable energy development would depend on the technology. Cumulative construction-phase noise would not cause substantial long-term impacts, similar to those identified for the cumulative impacts of the Easley Project. Cumulative effects of operational noise from other renewable energy development would also be similar to those identified for the Easley Project, except where the renewable technology could introduce new industrial equipment such as geothermal project well drilling and venting. These noise sources would be subject to Riverside County noise limitations, but these additional sources would contribute to cumulative noise impacts that would be worse than those identified for the Easley Project.

5.2.4.13. Paleontological Resources

However, in the absence of the proposed Project or an alternative to the Project, the purposes and goals for renewable energy generation that would be met by the proposed Project (or an alternative) would not be achieved. As a result, Due to the BLM designation of much of its land in the Desert Center area as a Development Focus Area, the construction of solar, wind, or geothermal generation projects would be consistent with the land designation. Therefore, ili is possible that another, similar energy generation project would be constructed in the future to meet the renewable energy generation goals in the Desert Center area. A solar project Such a project would likely introduce create similar impacts related to paleon-tological resources that as those of would be introduced through the proposed Project or an alternative.

Wind and geothermal renewable energy projects could also be located on the land now covered by the proposed Project if developers found resources to be available. Construction of tThese large-scale projects would have similar direct, indirect, and cumulative impacts to paleontological resources through ground disturbance as a solar project, as they would need foundations for structures (e.g., turbines, wells, cooling towers, etc.) and would require access roads, a gen-tie line, a BESS, and a substation.

5.2.4.14. Population and Housing

Under the No Project Alternative, <u>the BLM's Development Focus Area (DFA) designation would allow</u> it is probable that other solar energy-related projects would be implemented within the site in lieu of the proposed Project. A different solar energy project would potentially result in similar impacts to population and housing as those identified for the proposed Project.

The DFA would also allow development of wind or geothermal generation projects. These project types would likely have similar construction workforce needs as a solar project. Because of their mechanical needs, a geothermal projects would have a somewhat larger permanent workforce than a solar project, but not large enough to induce population growth. The direct, indirect, and cumulative impact would be less than significant.

5.2.4.15. Public Services and Utilities

Under the No Project Alternative, The existing BLM Development Focus Area (DFA) would allow solar, wind or geothermal generation in the Desert Center area. Therefore, it is probable that another solar

<u>renewable</u> energy-<u>related</u> project <u>c</u>would be implemented within the site in lieu of the proposed Project. <u>These generation technologies would result in direct, indirect, and cumulative impacts similar to those of</u> <u>the proposed Project to public services and utilities, and they would be less than significant</u>. <u>A different</u> <u>solar energy project would potentially result in similar impacts to public services and utilities as those</u> <u>identified for the proposed Project</u>.

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5.2.4.16. <u>Recreation</u>

BLM has designated much of the land under its jurisdiction at Desert Center as Development Focus Areas (DFAs) suitable for development of renewable energy projects using solar, wind, or geothermal technologies. Under the No Project Alternative A3, the proposed Easley Project would not be constructed. However, the land would remain available for other renewable energy projects, including a different solar project or, if conditions are suitable, a wind energy project or a geothermal energy project. Direct, indirect, and cumulative impacts to recreation from development of a different solar project would be similar to those identified for the Easley Project.

Recreation impacts associated with a wind project would include loss of access to lands required for project facilities and the wind generator turbines, with access limited for safety and security. These impacts would be similar to those of the proposed Project. For a geothermal project, similar access limitations would apply because of above ground pipelines and the need to secure facilities. However, the indirect effects of a geothermal generation facility, due to its industrial nature large mass, and operational noise and emissions, would have an increased level of impact compared with the proposed solar project.

5.2.4.17. Traffic and Transportation

Much of the proposed Project site is designated as a DFA and is suitable for solar renewable energy generation, including solar, wind, or geothermal technologies. Under the No Project Alternative A3, it is probable possible that other solar energy-related projects would be implemented within the site in lieu of the proposed Project, because the demand for solar energy continues to increase for compliance with state and federal climate change goals, and the site offers excellent solar potential. A different solar energy project would potentially result in similar impacts to transportation and traffic as those identified for the proposed Project.

If a wind or geothermal energy project were to be constructed on the land, these would have similar direct, indirect, and cumulative impacts on traffic and transportation as the proposed Project, owing to the large workforce required for construction of facilities.

5.2.4.18. Wildfire

As such, if the The No Project Alternative <u>A3 considers the potential for solar, wind, or geothermal gener-</u> ation projects to be constructed, because these technologies are consistent with the BLM Development Focus Area (DFA) designation.

<u>A</u>were selected, another solar project could be proposed in the same location and result in similar impacts. If a wind or geothermal project were to be developed on the DFA lands, they-it would require similar facilities industrial components as a solar project, including a BESS, a gen-tie line, a substation, and other electrical components. The construction of these components is would pose similar wildfire risks as a solar project.

5.2.5. <u>Alternative B: Reduced Footprint Alternative – Impact Analysis</u>

5.2.5.1. Aesthetics

The Lake Tamarisk Reduced Footprint Alternative would remove approximately 30-50 acres of solar panels closest to the Lake Tamarisk Desert Resort (LTDR) such that the nearest panels would be approximately 0.45 mile (2,350 feet) from the closest LTDR mobile home residence compared to approximately 750 feet under the proposed Project. In addition, the on-site substation and BESS would be moved approximately 0.7 mile to the northeast (farther away from the LTDR community). Also, with the relocation of the substation, the associated gen-tie line would extend approximately 0.8 mile farther northeast along the east side of SR-177 before spanning SR-177 to connect with the alternative substation location.

As a result of these changes in the Project layout under Alternative <u>B2</u>, the visual impacts on the resort would be reduced. Specifically, and as illustrated in the visual simulation<u>s</u> presented in Figures <u>3.2-4C (KOP</u><u>3)</u>, 3.2-5C (KOP 4) and 3.2-8C (KOP 7), the closest arrays (to the immediate <u>north and</u> northeast of the resort) would be removed, and the remaining more distant arrays would be less visually prominent. The absence of these the northeast arrays is illustrated in the far-left portion of the Figure 3.2-5C (KOP 4) simulation. The absence of the north arrays is illustrated in the Figure 3.2-4C simulation and also in the Figure 3.2-8C (KOP 7) simulation, which shows that the remaining more distant arrays become even less noticeable given the presence of foreground to middleground vegetative screening. Also, the BESS, which previously appeared as a noticeable white, intermittent, linear feature along the valley floor to the east of the resort (see Figure 3.2-5B), but which was substantially screened by intervening vegetation, would now be relocated to the northeast away from the resort. Relocation of the BESS would eliminate visibility from KOP 4 and would result in minimal visibility from other viewing locations in the resort due to screening by intervening vegetation and array panels. The BESS would still be visible from Alligator Rock (KOP 3) and SR-177 (no KOP in close enough proximity to view the relocated BESS).

The relocation of the substation to the northeast away from the resort would also reduce its visibility from the resort due to screening by intervening vegetation and solar panels as well as greater viewing distances (depending on viewing location within the resort). The relocation of the BESS (white in color) is apparent in a comparison of the KOP 3 Figures 3.2-4B (Project) and 3.2-4C (Alternative B). With the relocation of the substation, the gen-tie line would extend farther northeast along SR-177 resulting in the potential visibility of approximately seven additional structures that would not otherwise be visible with the proposed Project. However, the additional structures would: (a) be partially or completely screened from view by intervening vegetation; (b) be backdropped by the distant mountains such that they would not extend above the horizon (and thus, be less visually prominent); or (c) be seen at greater distance in the context of other utility poles along SR-177. Therefore, the additional gen-tie poles would not constitute visually significant features in the landscape as viewed from the Lake Tamarisk Desert Resort.

Although the visual impact on the resort would be reduced under Alternative B2, the overall Project visual impact would not be reduced to level that would be less than significant when viewed from the eastern portion of the resort (as illustrated in the KOP 4 simulation). Further, the visual impacts experienced at <u>KOPs 1, 2, 3, 5, and 6,</u> the other five representative KOPs, would also remain significant and unavoidable under Alternative <u>B2</u>. The line contrast that would be viewed from KOP 7 would be slightly reduced under Alternative B, and the resulting visual impact would remain less than significant.

In addition to the KOP 4 Figures 3.2-5A (Existing View) and 3.2-5C (Alternative $\frac{2}{B}$ Simulation), both of which were based on imagery from December 2022 that was obtained with a 5.5-foot camera elevation (above the ground), an additional series of figures (Figures 3.2-5D and 3.2-5F in <u>EIR</u> Appendix I) was captured in October 2023 but with an 8-foot camera elevation (above the ground). As for the proposed Project, this slightly elevated view was obtained and evaluated because it was thought to be more

representative of the "porch-height" views that some of the private residences along the eastern resort perimeter experience. The Existing View image presented in Figure 3.2-5D captures essentially the same landscape features that are shown in the same frame of view presented in the original existing view presented in Figure 3.2-5A at a 5.5-foot camera elevation. However, the new Figure 3.2-5D was captured almost a year later following substantial rain events. As a result, some vegetation is noticeably greener, and some vegetation growth has occurred providing a very slight increase in screening in some portions of the image. Also, additional solar facilities have been installed in the landscape since the December 2022 set of images, which adds to the existing structural context.

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Figure 3.2-5F presents a panoramic visual simulation of Alternative <u>B</u>2 as viewed with a camera height of 8 feet (i.e., approximate porch-height view). As with the proposed Project simulation, the Alternative <u>B</u>2 simulation illustrates a<u>n</u> very slight increase in visibility of some project features due to the ability to "see over" some of the intervening screening vegetation with the elevated viewing perspective. However, in other cases, the increased camera (viewing) height has been offset somewhat by additional vegetation growth that has occurred over the past year. Similar to the proposed Project findings, the Alternative's overall visual change captured by the two different camera (viewing) heights is similar<u>to</u> and the 8-oothigh viewing perspective would not change the overall impact conclusion. Although the KOP 4 viewpoint is considered reasonably <u>the Project's</u>, and the 8-foot-high viewing perspective of publicly available project views from the eastern portion of the resort, it is acknowledged that some public views and private residential views within the resort may be more or less visually affected by Alternative <u>B</u>2 due to the presence of lesser or greater vegetative screening.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3 and would be significant when viewed by sensitive viewing populations along I-10 and SR-177, from nearby residences, from portions of JTNP, and in the surrounding mountains and wilderness. Like the proposed Project, the alternative would make a considerable contribution to these visual impacts.

5.2.5.2. Agriculture and Forestry

The Lake Tamarisk Reduced Footprint Alternative (Alternative B2) would be located within the proposed Project application area. This alternative would be similar to the proposed Project but would remove approximately 30-50 acres of solar panels closest to the community of Lake Tamarisk. Under this alternative, the substation and BESS would be moved farther from Lake Tamarisk on either BLM-administered land or private land adjacent to SR-177/Rice Road. The location of the substation, portion of gen-tie line, and BESS under Alternative B2 would no longer be on land zoned as Agriculture or a parcel under a Williamson Act contract. The remaining Williamson Act lands of the proposed Project remain as part of Alternative 2B and would need to be canceled and removed from agricultural preserves prior to Project development. Alternative B2 would have similar construction and operation activities as the proposed Project; therefore therefore, Alternative B2 would have similar impacts to agriculture and forestry, which would remain less than significant and unavoidable. CEQA Appendix G places agriculture and forestry in one resource impact category. Since there are no forestry resources on the proposed site or the surrounding area, Alternative B would only affect agriculture as noted above.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.5.3. <u>Air Quality</u>

Alternative <u>B</u>² would remove approximately <u>30 50</u> acres of solar panels closest to the community of Lake Tamarisk. The reduction in acreage would increase the distances to sensitive receptors from the proposed Project sources of air pollutant emissions The decrease in solar panel area would result in a slight decrease

in the potential for sensitive receptors to be exposed to emissions and pollutant concentrations near the existing community of LTDR when compared with the impacts of the proposed Project.

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Alternative <u>B</u>² would reduce the emissions and pollutant concentrations levels experienced by sensitive receptors and reduce air quality impacts when compared to the proposed Project. Overall, the effects of Alternative <u>B</u>² would be slightly reduced from the proposed Project, and mitigation identified for the proposed Project would be the same for under this alternative.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's incremental contribution would not be cumulatively considerable.

5.2.5.4. Biological Resources

The Lake Tamarisk Reduced Footprint Alternative would remove approximately 30-50 acres of solar panels closest to the community of Lake Tamarisk. The onsite substation and BESS would be moved at least 0.7 miles to the northeast. The length of the 500 kV gen-tie line under the Lake Tamarisk Reduced Footprint Alternative would be approximately 0.8 miles longer than the proposed 500 kV gen-tie line. All other Project features would be the same as the proposed Project.

Impacts to biological resources would be qualitatively similar to the proposed Project, with slightly approximately 36 fewer acres of native habitat disturbance in desert scrub habitat near the Lake Tamarisk community. Approximately 9 acres 33.5 acres of desert pavement, 728.7 acres of desert dry wash woodland, and 962.8 of Sonoran creosote bush scrub, and a few occurrences of desert unicorn plant would be avoided on undeveloped lands by removing the solar panels closest to the community implementing the Reduced Footprint Alternative. The area where panels would be removed for this Alternative is also within relatively higher quality modeled desert tortoise habitat (see Figure 3.5-5 in EIR Appendix A). By avoiding an additional 36 acres of native habitat, the Reduced Footprint Alternative would result in slightly less impact to desert scrub communities and provide slightly greater opportunities for wildlife movement through the Project site than the proposed Project. A longer gen-tie line may result in relatively greater impact to birds due to collision and electrocution.

Mitigation Measures, as listed in Section 3.5.9, would be implemented and impact conclusions would be the same as for the proposed Project.

5.2.5.5. <u>Cultural and Tribal Cultural Resources</u>

Under this alternative, approximately 30-50 acres of land would be removed from development footprint in the area closest to the community of Lake Tamarisk and the length of the 500 kV gen-tie line would be extended 0.8 miles longer than the proposed Project. However, under the Lake Tamarisk Reduced <u>Footprint</u> Alternative, the number of CRHR eligible resources within the direct impact area would be the same as for the proposed Project, consisting of 3 archaeological resources, including P-33-023675 and the PTNCL and DTCCL historic districts. Results of the Phase I survey found no evidence of archaeological remains associated with any of these resources within the Project's direct impact area. As such, the direct impacts to cultural resources for this alternative would be the same as for the proposed Project.

Portions of the PTNCL, DTCCL, P-33-023675, and P-33-025150 are located within Alternative <u>2's-B's</u> indirect impact area, similar to the proposed Project. Overall, the direct and indirect impacts of this alternative would be the same as the proposed Project and would be less than significant with mitigation implemented, as defined in Section 3.6. Therefore, the direct and indirect impacts of this alternative would be the same as the proposed Project, less than significant with mitigation implemented as defined above.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would be cumulatively considerable.

5.2.5.6. <u>Energy</u>

Alternative <u>B</u>² would not result in any significant changes to the construction or operational activities as they relate to energy resources. Alternative <u>B</u>² would remove approximately <u>30-50</u> acres of solar panels closest to the community of Lake Tamarisk. With this relatively small reduction in acreage, neither the electrical output, nor consumption of energy resources, would <u>not</u> be appreciably reduced compared to the proposed Project. <u>However, the renewable energy generation capacity of the solar array field</u> electrical output of in the Reduced Footprint Alternative would be up to 10 MW less than the proposed <u>Project.</u> The impacts of Alternative <u>B</u>² would be similar to the proposed Project <u>except for an up to 10</u> <u>MW reduction of renewable energy generation</u>.

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The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.5.7. <u>Geology, Soils, and Mineral Resources</u>

Alternative <u>2–B</u> would remove approximately <u>30–50</u> acres of solar panels closest to the Lake Tamarisk Desert Resort (LTDR) and relocate the onsite substation and BESS to a location 0.7 miles further north of the LTDR. This relocation of the onsite substation would result in the 500 kV gen-tie line for this alternative being approximately 0.8 miles longer than the proposed 500 kV gen-tie line. Despite the increased length of the gen-tie line, this alternative would lead to an overall decrease in ground disturbance due to the removal of solar panels. Operation of the project under Alternative <u>2B</u> would be the same as for the proposed Project. Impacts related to slope stability, seismic hazards, <u>expansive soils</u>, mineral resources, topography, subsidence, and sand migration would be the same as for the proposed Project. Impacts related to slope stability seismic hazards, <u>expansive soils</u>, mineral resources, topography, subsidence of desert pavement would be approximately <u>9–6</u> fewer acres under Alternative <u>2B</u> due to the decrease in ground disturbance northeast of the Lake Tamarisk Desert Resort. Impacts related to erosion would also be slightly decreased. Implementation of MM AQ-1, MM BIO-1, MM BIO-3, MM BIO-5, MM HWQ-1, and MM HWQ-5 would reduce any impacts to less than significant.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.5.8. Greenhouse Gas Emissions

Alternative <u>B</u>² would not result in any significant changes to the construction or operational activities as they relate to GHG emissions. Alternative <u>B</u>² would remove approximately <u>30-50</u> acres of solar panels closest to the community of Lake Tamarisk. With this relatively small reduction in acreage, the overall quantity of GHG emissions caused by construction activities would be slightly reduced...tThe renewable energy generation capacity of the solar array field under Alternative B during lifetime operations would be up to 10 MW less than the proposed Project, resulting in a lesser quantity of the proposed BESS, the potential avoidance of GHG emissions would be the same as with the proposed Project. Other effects of the proposed Project on GHG emissions would not be appreciably changed compared to the proposed Project. The impacts of Alternative <u>B</u>² would be similar to the proposed Project.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.5.9. Hazards and Hazardous Materials

Alternative <u>B</u> $_{2}$ would remove approximately <u>30-50</u> acres of solar panels closest to the Lake Tamarisk Desert Resort and relocate the onsite substation and BESS to a location 0.7 miles further north of the

LTDR. This relocation of the onsite substation would result in the 500 kV gen-tie line for this alternative being approximately 0.8 miles longer than the proposed 500 kV gen-tie line. Construction and operation activities for Alternative 2B would be the same as for the proposed Project. Impacts related to use and storage of hazardous materials, potential for spills or leaks of hazardous materials, and aviation hazards, would be the same as for the proposed Project to less than significant through compliance with local, State, and federal regulations.

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The decrease in solar panel area would result in a slight decrease in construction activities and ground disturbance near the existing community of LTDR, resulting in a slight decrease in potential for wildland fires to impact the public, slightly decreased potential for exposure of the public to contracting Valley Fever, slightly decreased potential for workers and the public to be exposed to pesticides or herbicides, and slightly decreased potential for workers to encounter unexploded ordnance. These decreases would be slight and would be reduced to less than significant by implementing of the same mitigation measures as for the proposed Project (MM AQ-1, MM FIRE-1, MM HAZ-1, MM HAZ-2, MM HAZ-3), as appropriate, and compliance with applicable local, State, and federal regulations.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.5.10. Hydrology and Water Quality

The Lake Tamarisk Reduced Footprint Alternative would remove approximately 50 30-acres of solar panels closest to the community of Lake Tamarisk. In addition, the onsite substation and BESS would be moved at least 0.7 miles to the northeast. The length of the 500 kV gen-tie line under the Reduced Footprint Lake Tamarisk-Alternative would be approximately 0.8 miles longer than the proposed 500 kV gen-tie line. -All other Project features would be the same as the proposed Project. Surface water impacts would remain the same as for the proposed Project, but slightly reduced in magnitude due to the reduced Project footprint. The Reduced Footprint Lake Tamarisk-Alternative would require the same mitigation measures to be implemented as would be required for the proposed Project, with the same impact significance. Therefore, because both the proposed Project and the Reduced Footprint Alternative 2-would result in less than significant impacts with adherence to all applicable regulations and mitigation measures, impacts related to hydrology and water quality from the Reduced Footprint Alternative 2 would be similar to those of the proposed Project.

The footprint of the proposed Project would be reduced by approximately 30 acres under the Lake Tamarisk Alternative; however, the corresponding reduction in estimated water demand for Project construction and operation is anticipated to be de minimis.

In June 2023, BLM issued a Proposed Rule to amend its existing ROW regulations, issued under authority of the Federal Land Policy and Management Act (FLPMA), and is considering issuing Right-of-Way (ROW) grants for durations of up to 50 years (BLM, 2023). To prepare for potential issuance of a 50-year ROW Grant by the BLM (outside of CEQA) and to determine whether there are sufficient supplies to sustain the Project, the Easley WSA conservatively extends the total projected period of the Project- to 52-years. For the purpose of the CVGB water budget (see GSI, 2024 Section 6) and predictive Project water demand impacts analysis (see GSI, 2024 Sections 5.4 and 7) presented herein, 52 years is equivalent to the projected total duration of the Project, including construction (20 months), operations (48 years), and decommissioning (20 months).⁴¹

⁴¹ Although the estimated Project construction period and decommissioning period described in the EIR Chapter 2 (Project Description) is 20 months, the water budgets (see GSI, 2024 Section 6) and Cone of Depression and Cumulative Drawdown Analysis (see GSI, 2024 Section 7), were developed in 1-year time steps, and therefore, assume the same overall water usage but over Project construction and decommissioning periods of 2 years.

The Project would use up to 1,000 AF during the planned 20-month construction period and up to 50 AFY during the Project's operational and decommissioning periods. The Project would use a total of approximately 3,500 AF over the assumed 52-year life of the Project. If the estimated water demand for the Project was used equally per acre (the Project is proposed on approximately 3,735 acres <u>for the solar and BESS facility</u>, plus 139-acre gen-tie line corridor), the Project would use approximately 0.27 AF per acre during construction and 0.01 AF per acre per year during the operational phase of the Project. <u>Using the same AF per acre water use assumptions</u>, the Reduced Footprint Alternative would require approximately 987 AF during the construction phase and 49 AFY during the operational phase of the Project. Therefore, due to the minimal reduction of groundwater use under the Reduced Footprint Alternative, the potential impacts on groundwater would be consistent with those discussed in Section 3.11 for the proposed <u>Project</u>. Assuming the equal water use per acre, the Lake Tamarisk Alternative would also require approximately 0.27 AF per acre during the construction phase and 0.01 AF per acre per year during the operational phase of the Project. Therefore, the potential impacts on groundwater under the construction phase and 0.01 AF per acre per year during the operational phase of the Project. Therefore, the potential impacts on groundwater under the Lake Tamarisk Alternative would also require approximately 0.27 AF per acre during the construction phase and 0.01 AF per acre per year during the operational phase of the Project. Therefore, the potential impacts on groundwater under the Lake Tamarisk Alternative would be consistent with those discussed in Section 3.11.5 for the proposed Project.

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The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.5.11. Land Use and Planning

The Lake TamariskReduced Footprint Alternative would be developed within the proposed Project site and was developed in response to concerns expressed by the Lake Tamarisk community during scoping. The Alternative would be similar to the proposed Project but would remove approximately <u>350</u> acres of solar panels closest to the community of Lake Tamarisk, such that the closest solar panels to residential parcels would be 0.45 miles (2,350 feet) away. This would reduce land-use related impacts that might arise, such as loss of open space proximate to the community and moving construction disturbances farther from residences. With this relatively small reduction in acreage, the electrical output would not be appreciably reduced compared to the proposed Project. In addition, the onsite substation and BESS would be moved at least 0.7 mile to the northeast, on either BLM-administered land (Substation Alternative A) or private land (Substation Alternative B) closer to SR-177. The Applicant is in negotiations with all existing ROW holders, such as Metropolitan Water District and EDF Renewables, to ensure that there would be no conflicts with existing or proposed easements across the Easley Project site and gentie line ROW. At 7.5 miles, the length of the 500 kV gen-tie line under the Lake TamariskReduced Footprint Alternative would be approximately 0.8 miles longer than the proposed 500 kV gen-tie line (6.7 miles).

As with the proposed Project, the Lake Tamarisk <u>Reduced Footprint</u> Alterative would not cause a significant impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.5.12. Noise and Vibration

The <u>Lake TamariskReduced Footprint</u> Alternative (Alternative <u>B</u>2) would remove approximately <u>50</u>30 acres of solar panels closest to the community of Lake Tamarisk. The reduction in acreage would increase the distances to sensitive receptors from the proposed Project sources of noise and vibration. The decrease in solar panel area would result in a slight decrease in the potential for sensitive receptors to be exposed to noise and vibration near the existing community of LTDR when compared with the impacts of the proposed Project.

Alternative 2-<u>B</u> would reduce the noise and vibration levels experienced by sensitive receptors and reduce the noise and vibration impacts when compared to the proposed Project. Overall, the effects of Alternative 2-<u>B</u> would be slightly reduced from the proposed Project, and mitigation identified for the proposed Project would be the same for under this alternative.

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The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.5.13. Paleontological Resources

Alternative <u>B2</u> would remove approximately <u>30–50</u> acres of solar panels closest to the Lake Tamarisk Desert Resort (LTDR) and relocate the onsite substation and BESS to a location 0.7 miles further north of the LTDR. This relocation of the onsite substation would result in the 500 kV gen-tie line for this alternative being approximately 0.8 miles longer than the proposed 500 kV gen-tie line. Despite the increased length of the gen-tie line, this alternative would lead to an overall decrease in ground disturbance due to the removal of solar panels. Operation of the project under Alternative <u>2–B</u> would be the same as for the proposed Project. Due to the decrease in ground disturbance, impacts related to damage or destruction of paleontological resources would be minimally less than for the proposed Project. <u>limplementation of Mitigation Measures PR-1</u> through PR-4 would reduce potential adverse impacts on paleontological resources to a less-than-significant level.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.5.14. Population and Housing

The Lake Tamarisk<u>Reduced Footprint</u> Alternative would be similar to the proposed Project, but would remove approximately 30-50 acres of solar panels closest to the community of Lake Tamarisk, such that the Project solar panels would be approximately 0.45 miles (2,350 feet) from the closest residence compared to 750 feet under the proposed Project. The electrical output of the Alternative <u>B</u>² would not be appreciably reduced compared to the proposed Project. Alternative <u>B</u>² would have similar construction and operational activities as the proposed Project, and therefore, Alternative <u>B</u>² would have similar impacts to population and housing and impacts would be less than significant.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.5.15. Public Services and Utilities

The Lake Tamarisk<u>Reduced Footprint</u> Alternative would be similar to the proposed Project but would remove approximately 30-<u>50</u> acres of solar panels closest to the community of Lake Tamarisk, such that the Project solar panels would be approximately 0.45 miles (2,350 feet) from the closest residence compared to 750 feet under the proposed Project. The electrical output of the Alternative 2 would not be appreciably reduced compared to the proposed Project. Alternative <u>B</u>² would have similar construction and operational activities as the proposed Project, and therefore, Alternative <u>B</u>² would have similar impacts to public services and utilities and impacts would be less than significant.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.5.16. Recreation

The Lake Tamarisk Reduced Footprint Alternative would be similar to the proposed Project but would remove approximately <u>30-50</u> acres of solar panels closest to the community of Lake Tamarisk and move the substation and BESS to the northeast, on either BLM-administered land (Substation Alternative-Option A) or private land (Substation Alternative-Option B) closer to SR-177. The impact on BLM Open Routes would be the same as under the proposed Project and Alternative <u>B2</u> (Lake Tamarisk Reduced Footprint Alternative). Approximately <u>30-50</u> acres of solar panels closest to the community of Lake Tamarisk would be fenced under the proposed Project, but would be removed from development under Alternative <u>B2</u>, and thus, would remain open and available for informal recreational use. As with the proposed Project, the Lake Tamarisk-Reduced Footprint Alterative would cause a less than significant impact to designated recreation areas or recreation facilities. The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.5.17. Traffic and Transportation

Under this alternative, approximately 30–50 acres of solar panels closest to the community of Lake Tamarisk would be removed from the Project and the location of some facilities moved farther from Lake Tamarisk. However, there would be no substantial change to the size of the solar facility proposed to be constructed and operated. Under the <u>Reduced FootprintLake Tamarisk</u> Alternative, construction- and operations-related traffic would be similar to that anticipated for the Project as proposed. Therefore, the traffic and transportation impacts for Alternative <u>B2</u> would be virtually identical to those attributable to the proposed Project and require identical mitigation measures to ensure impacts to transportation and traffic would be reduced to less-than-significant levels. The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.5.18. Wildfire

Under the Lake Tamarisk Reduced Footprint Alternative, approximately 30-50 acres of solar panels closest to the community of Lake Tamarisk would not be installed, and the onsite substation and proposed BESS would be moved at least 0.7 mile to the northeast farther away from the community of Lake Tamarisk. The slight reduction in solar panel area would result in a nominal decrease in construction activity, as construction would not occur in the approximately 3050-acre area near the community of Lake Tamarisk. Thus, there would be a small decrease in fire hazards associated with installation of fewer solar panels, as construction duration and number of workers may be slightly reduced. Although the solar panels would continue to be made of fire resistant materials, the risk of fire spreading to the community of Lake Tamarisk would further decrease due to the increased distance from the community.

Likewise, the alternative substation and BESS options would be farther from the community of Lake Tamarisk but would result in similar construction impacts as the proposed Project, as the same construction activities and associated fire risks would still occur. During operations, the risk of a fire igniting at the substation or BESS and spreading to the community of Lake Tamarisk would decrease due to the increased distance from the community. Although a portion of the 500 kV gen-tie line would be slightly farther away from the community of Lake Tamarisk, the overall length would be approximately 0.8 mile longer than the gen-tie line under the proposed Project and would result in similar impacts as the proposed Project.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6. <u>Alternative C: Further Reduced Footprint Alternative with Berms– Impact</u> <u>Analysis</u>

5.2.6.1. Aesthetics

Alternative C (see Figure 2-15) would reduce the Project developable footprint by 530 acres compared to the proposed Project, which is located immediately north and east of Lake Tamarisk Desert Resort and is intended to establish a greater than one-mile buffer around the resort. A second key element of this alternative would be the construction of two 10-foot-tall screening berms made of sand with a 1:1 slope and 20-feet across. The north berm would be positioned in an east-west direction north of the Resort and would generally parallel the existing drainage pattern in the area. The east berm would be positioned in a north-south direction at the east end of the one-mile buffer (see Figure 2-15).

Elimination of the arrays on BLM land immediately north and northeast of the Resort (affecting a greater than one-mile buffer) would substantially mitigate the significant aesthetics impacts that the northeast and east portions of the Lake Tamarisk Desert Resort would otherwise experience to a less than significant level, though the aesthetics impacts resulting from the gen-tie line would remain. The visual impact experienced along the northern perimeter of the resort (KOP 7) would be further reduced and would remain less than significant.

Elimination of those same solar arrays would reduce the aesthetics impacts on views from Alligator Rock ACEC, though not to a level that would be less than significant. However, the Further Reduced Footprint Alternative with Berms would not substantially mitigate the significant aesthetics impacts that would be experienced at other public viewing locations such as along SR-177.

Shifting the substation, BESS, and O&M building to a new location immediately adjacent to SR-177 (Rice Road) under this alternative would lessen the visual impact of the substation on views from the Lake Tamarisk Desert Resort due to the increased viewing distance. However, the visual contrast associated with the substation's structural complexity and industrial character would become highly visible in the immediate foreground of views from SR-177 (close proximity viewpoints), which in combination with the increased structural prominence of the additional gen-tie poles (a more circuitous gen-tie route would be required with substation relocation) would substantially increase Alternative C's aesthetic impacts on both northbound and southbound views from SR-177 compared to the Project.

The north berm would be effective in blocking views of solar arrays immediately north of the berm. Arrays extending east and west of the north berm would be substantially screened by intervening vegetation between the Lake Tamarisk Desert Resort and the arrays, as illustrated in the Alternative C simulation presented for KOP 7 in Figure 3.2-8D. The east berm would block views of some of the arrays immediately east of the berm, but the more distant arrays would remain visible depending on the presence of intervening vegetation between the Lake Tamarisk Desert Resort and the arrays. The east berm would also be effective in blocking the BESS and some of the lower components of the relocated substation, though the taller components would remain visible. At a viewing distance of just under two miles, however, it is not expected that the substation would substantially affect views from the Lake Tamarisk Desert Resort.

Taken in combination, Alternative C, with its buffer exclusion area, berm construction, and substation/ BESS relocation would reduce the visual impact on views from the Lake Tamarisk Desert Resort to a level that would be less than significant, compared to the Project. However, Alternative C would increase the visual impact on close proximity views from SR-177 and would not, compared to the Project, reduce significant visual impacts on views from I-10 or Alligator Rock to a level that is less than significant, so visual impacts would remain significant and unavoidable from these viewpoints.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3 and would be significant when viewed by sensitive viewing populations along I-10 and SR-177, from

nearby residences, from portions of JTNP, and in the surrounding mountains and wilderness. Alternative <u>C would make a considerable contribution to these visual impacts.</u>

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5.2.6.2. Agriculture and Forestry

Alternative C would be located within the proposed Project application area. This alternative would be similar to the proposed Project but would reduce the developable footprint by approximately 530 acress compared to the proposed Project. Additionally, two berms would be constructed; one berm would be north of Lake Tamarisk and the other berm would be east of Lake Tamarisk. Neither berm would enter land zoned as agriculture or under a Williamson Act contract. Under this Alternative, the substation, BESS, and O&M building would be moved farther from Lake Tamarisk Desert Resort, northeast of the location under the proposed Project. The gen-tie line would extend from the western corner of the relocated substation area heading northwest then south along the eastern boundary of the Project to rejoin the Alternative B gen-tie line starting point. The location of the substation, portion of gen-tie line, and BESS under Alternative C would no longer be on land zoned as Agriculture or within a parcel under a Williamson Act contract. The remaining Williamson Act lands of the proposed Project remain as part of Alternative C and would need to be canceled and removed from agricultural preserves prior to Project development. Alternative C would have similar construction and operation activities as the proposed Project; therefore, Alternative C would have similar impacts to agriculture as the Project, which would remain less than significant.

<u>CEQA Appendix G places agriculture and forestry in one resource impact category. Since there are no forestry resources on the proposed site or the surrounding area, Alternative B would only affect jojoba agriculture as noted above.</u>

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6.3. <u>Air Quality</u>

Alternative C would remove approximately 530 acres from development, when compared to the Project. The reduction in acreage would increase the distances to sensitive receptors from the proposed Project sources of air pollutant emissions. The decrease in solar panel area would result in a slight decrease in the potential for sensitive receptors to be exposed to emissions and pollutant concentrations near the existing community of Lake Tamarisk when compared with the impacts of the proposed Project.

Alternative C would reduce the emissions and pollutant concentrations levels experienced by sensitive receptors and reduce air quality impacts when compared to the proposed Project. Overall, the effects of Alternative C would be reduced from the proposed Project, and mitigation identified for the proposed Project would be the same under this alternative.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's incremental contribution would not be cumulatively considerable.

5.2.6.4. Biological Resources

The Further Reduced Footprint Alternative with Berms would reduce the project developable footprint by 530 acres by removing proposed Project solar panels in a minimum 1-mile buffer surrounding the Lake Tamarisk community (development exclusion area). The Further Reduced Footprint Alternative with Berms would move the substation slightly farther northeast, along State Route 177/Rice Road, and proposes screening with berms at two locations to block views of the solar panels from the community. The length of the 500 kV gen-tie line under the Further Reduced Footprint Alternative with Berms would be 1.3 miles

longer than the proposed 500 kV gen-tie line. All other project features outside the development exclusion area (see Figure 2-15) would be the same as the proposed Project.

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The berms are proposed to be constructed of sand, with dimensions 10 feet in height, 20 feet in depth, with a 1:1 slope. One berm would be positioned in an east-west orientation, approximately 1,060 feet long, north of Lake Tamarisk and generally parallel to the drainage pattern for the area. A rock riprap base may be constructed at the base of the berm to provide erosion protection. The second berm would be positioned to the east of the Lake Tamarisk community, approximately 2,920 feet long in a north-south orientation, extending to Rice Road. As necessary, drainage could be accommodated with metal culverts or gaps in the berm.

Impacts to biological resources would be qualitatively similar to those of the proposed Project, with 500 fewer acres of development and related habitat disturbance in a greater than 1-mile buffer surrounding the Lake Tamarisk community. Compared to the proposed Project, an additional approximately 10 acres of desert dry wash woodland and 6 acres of desert pavement would be avoided by removing the solar panels within the 1-mile buffer.

Approximately 1,227 acres of Sonoran creosote bush scrub, 738 acres of desert dry wash woodland, and 33.5 acres of desert pavement occur on the undeveloped lands within the buffer of the Further Reduced Footprint Alternative with Berms. Impacts to biological resources from construction and O&M activities would be qualitatively similar to those of the proposed Project, but Alternative C would disturb approximately 310 fewer acres of native habitat that is suitable desert tortoise habitat compared to the proposed Project, including reduced impacts to desert dry wash woodland by approximately 10 acres.

Impacts to habitat would still occur where the berms are built, and in any Project areas where fill from the berm is sourced.

The areas where panels would be excluded overlap with moderate to high quality desert tortoise habitat (0.4-0.7) (Nussear et al., 2009) and avoid areas where desert tortoise sign were found (See Figure 3.5-5 in Appendix A). However, the altered hydrology resulting from the berms could degrade desert tortoise habitat (Abella and Berry, 2016). Occurrences of desert unicorn plant, burrowing owls, active desert kit fox burrows, and burro deer would be avoided where development would be excluded. A longer gen-tie line may result in relatively greater impact to birds due to collision and electrocution.

By avoiding 530 acres of habitat compared to the proposed Project, the Further Reduced Footprint Alternative with Berms would provide more opportunities for wildlife movement through the Project site than the proposed Project. While generally the berms would be constructed adjacent to solar panel areas, which would be fenced and already pose a barrier to movement, 1:1 sloped berms would serve as an additional barrier to movement in the local area. By avoiding disturbance of 310 acres of native habitat compared to the proposed Project, the Further Reduced Footprint Alternative with Berms would provide greater opportunity for wildlife movement through the Project site and vicinity and a larger buffer for birds using Lake Tamarisk and the Pacific Flyway than the proposed Project. While generally the berms would be constructed adjacent to solar panel areas, which would be fenced and already pose a barrier to movement, 1:1 sloped berms would serve as an additional barrier to movement in the local area.

Mitigation Measures, as listed in Section 3.5, would be implemented and impact conclusions would be the same as for the proposed Project.

5.2.6.5. <u>Cultural and Tribal Cultural Resources</u>

Under this alternative, approximately 530 acres of land would be removed from development footprint compared to the Project in areas within a more than 1-mile buffer between the community of Lake Tamarisk and the proposed Project. Additionally, the alternative would result in the development of two 10-foot high, 20-foot long sand berms placed at the edges of the buffer to the east and north. However,

under Alternative C, the number of CRHR eligible resources within the direct impact area would be the same as for the proposed Project, consisting of 3 archaeological resources, including P-33-023675 and the PTNCL and DTCCL historic districts. Results of the Phase I survey found no evidence of archaeological remains associated with any of these resources within the Project's direct impact area. As such, the direct impacts to cultural resources for this alternative would be the same as for the proposed Project.

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Portions of the PTNCL, DTCCL, P-33-023675, and P-33-025150 are located within Alternative C's indirect impact area, similar to the proposed Project. Overall, the direct and indirect impacts of this alternative would be the same as the proposed Project and would be less than significant with mitigation implemented, as defined in Section 3.6. Therefore, the direct and indirect impacts of this alternative would be the same as the proposed Project, less than significant with mitigation implemented as defined above.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would be cumulatively considerable.

5.2.6.6. <u>Energy</u>

Alternative C would not result in any significant changes to the construction or operational activities as they relate to Energy. Alternative C would reduce the overall quantity of energy consumed by construction activities, and the renewable energy generation capacity of the solar array field would be 300 to 320 MW, resulting in a lesser quantity of energy produced by the solar PV component. Because the Alternative C BESS relocation would not change the capacity of the proposed BESS, the amount of energy stored by the BESS would be the same as with the proposed Project. Other effects of the proposed Project on energy would not be appreciably changed compared to the proposed Project. The impacts of Alternative C would be similar to the proposed Project.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6.7. Geology, Soils, and Mineral Resources

Alternative C includes a minimum 1-mile buffer setback from the Lake Tamarisk Desert Resort, two 10foot--high earthen berms, and relocation of the onsite substation/BESS/O&M building and 500 kV gen-tie line. Alternative C would result in 530 acres that would not be developed as compared to the proposed Project and the gen-tie line being 1.3 to 1.45 miles longer than the proposed Project gen-tie line. Despite the addition of the earthen berms and longer gen-tie line, Alternative C would lead to a decrease in ground disturbance due to the large area of solar panels removed under this alternative. Operation of the project under Alternative C would be the same as described for the proposed Project in Section 3.8.

Impacts related to slope stability, seismic hazards, expansive soils, mineral resources, topography, sand migration, and subsidence would be the same as for the proposed Project. Impacts related to disturbance of desert pavement would be reduced due to the decrease disturbance of desert pavement (approximately 6 fewer acres of disturbed than for the proposed Project) with the decrease in ground disturbance northeast of the Lake Tamarisk Desert Resort. Impacts related to erosion would potentially be increased due to disruption of flow paths due to the presence of the berms, however due to the decrease in area disturbed due to the removal of a large solar panel development area, erosion impacts would be overall reduced. Implementation of MM AQ-1, MM BIO-1, MM BIO-3, MM BIO-5, MM HWQ-1, and MM HWQ-5 would reduce any impacts to less than significant.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6.8. Greenhouse Gas Emissions

Alternative C would not result in any significant changes to the construction or operational activities as they relate to GHG emissions. Alternative C would remove approximately 530 acres from development, when compared to the proposed Project. With this reduction in acreage, the overall quantity of GHG emissions caused by construction activities would be reduced. The renewable energy generation capacity of the solar array field under Alternative C would be reduced by approximately 80 to <u>1100</u> MW compared to the proposed Project, to result in a generation capacity for this alternative of <u>300290</u> to 320 MW, resulting in a lesser quantity of electricity produced by the solar PV component compared to the Project Because Alternative C would not change the capacity of the proposed BESS, the potential avoidance of GHG emissions would be the same as with the proposed Project. Other effects of the proposed Project on GHG emissions would be less compared to the proposed Project.

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The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6.9. Hazards and Hazardous Materials

Alternative C includes a minimum one-mile buffer from the Lake Tamarisk Resort borders, two 10-foot high by 20-foot-wide earthen berms, and relocation of the substation and a portion of the gen-tie line. Alternative C would reduce the project development area by approximately 530 acres as compared to the proposed Project, but would increase the length of 500 kV gen-tie line to 8.0 to 8.15 miles long, compared with 6.7 miles under the proposed Project and 7.5 miles under Alternative B. Construction and operation activities for Alternative C would be the same as for the proposed Project with the exception of the construction of the earthen berms. However, construction of the earthen berms would use similar types of construction equipment and construction practices as the proposed Project. Therefore, impacts related to use and storage of hazardous materials, potential for spills or leaks of hazardous materials, and aviation hazards, would be the same as for the proposed Project and would be reduced to less than significant through compliance with local, State, and federal regulations.

The decrease in solar panel area near to the Lake Tamarisk Desert Resort would result in a decrease in construction activities and ground disturbance near the existing community of Lake Tamarisk as compared to the proposed Project. This would result in decreases in potential for wildland fires to impact the public, potential for exposure of the public to contracting Valley Fever, potential for workers and the public to be exposed to pesticides or herbicides, and potential for workers to encounter unexploded ordnance. The potential for these impacts would be decreased as compared to the proposed Project- and would be reduced to less than significant by implementing of the same mitigation measures as for the proposed Project (MM AQ-1, MM FIRE-1, MM HAZ-1, MM HAZ-2, MM HAZ-3), as appropriate, and compliance with applicable local, State, and federal regulations.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6.10. Hydrology and Water Quality

Alternative C would reduce the Project developable footprint by 530 acres compared to the proposed Project and include a Project setback from the Lake Tamarisk Community of more than 1 mile, the construction of two earthen berms, relocation of the onsite substation/BESS/O&M building, and rerouting of the gen-tie line. The Alternative C substation/BESS relocation would result in the 500 kV gen-tie line being 8.0 to 8.15 miles long, compared with 6.7 miles under the proposed Project. Installation of earthen berms would change stormwater flow on and offsite, which could adversely affect surface water flow on adjacent parcels (including and flooding of adjacent parcels) and could also alter vegetation patterns.

Other project features, such as the substation, buildings, access roads, and fences, also have the capacity to divert drainage.

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Implementation of Mitigation Measure HWQ-5 (Project Drainage Plan) would require preparation of a drainage plan that demonstrates, among other things, adequate design to protect from flooding, erosion and scour, and to do so without adversely affecting adjacent property, inducing erosion, or concentrating or diverting flows. Any berms on the Project site also would be required to comply with MM HWQ-5.

The Westwood preliminary hydrology study shows that the westernmost berm is in an area of minimal and shallow flooding. This berm, which runs mostly parallel with the flow pattern, is unlikely to create a significant adverse flow diversion. The eastern berm is in line with one of the wide flood concentrations that could have depths of up to 1.5 feet. This berm is situated such that it would divert these flows to the north. However, the Westwood study shows that under existing conditions this flow -is already mostly diverted to the north in the same manner a few hundred feet downstream of the berm location. The berm would therefore have little effect on drainage patterns as relates to other property. With implementation of MM-HWQ-5, design steps such as placing culverts under the berm to allow drainage through would be taken to reduce adverse impacts to a less-than-significant level.

The Alternative C gen-tie and substation locations are such that the proposed Project impact analysis applies to them as the drainage impacts.

Other Project features would be the same as the proposed Project. Surface water impacts would therefore remain the same as for the proposed Project, but reduced in magnitude due to the reduced Project footprint. The Further Reduced Footprint Alternative with Berms would require the same mitigation measures to be implemented as would be required for the proposed Project, with the same impact significance. Therefore, because both the proposed Project and Alternative C would result in less than significant impacts with adherence to all applicable regulations and mitigation measures, impacts related to hydrology and water quality from Alternative C would be similar to those of the proposed Project.

In June 2023, BLM issued a Proposed Rule to amend its existing ROW regulations, issued under authority of the Federal Land Policy and Management Act (FLPMA), and is considering issuing Right-of-Way (ROW) grants for durations of up to 50 years (BLM, 2023). To prepare for potential issuance of a 50-year ROW Grant by the BLM (outside of CEQA) and to determine whether there are sufficient supplies to sustain the Project, the Easley WSA conservatively extends the total projected period of the Project to 52-years. For the purpose of the CVGB water budget (see GSI, 2024 Section 6) and predictive Project water demand impacts analysis (see GSI, 2024 Sections 5.4 and 7) presented herein, 52 years is equivalent to the projected total duration of the Project, including construction (20 months), operations (48 years), and decommissioning (20 months).⁴²

The Project would use up to 1,000 AF of water during the planned 20-month construction period and up to 50 AFY during the Project's operational and decommissioning periods. The Project would use a total of approximately 3,500 AF over the assumed 52-year life of the Project. If the estimated water demand for the Project was used equally per acre (the Project solar and BESS facility site is proposed on approximately 3,735 acres), the Project would use approximately 0.27 AF per acre during construction and 0.01 AF per acre per year during the operational phase of the Project. Using the same AF per acre water use assumptions, Alternative C would require approximately 950 AF during the construction phase and 48 AFY during the operational phase of the Project. Therefore, due to the minimal reduction of groundwater use

⁴² Although the estimated Project construction period and decommissioning period described in the EIR Chapter 2 (Project Description) is 20 months, the water budgets (see GSI, 2024 Section 6) and Cone of Depression and Cumulative Drawdown Analysis (see GSI, 2024 Section 7), were developed in 1-year time steps, and therefore, assume the same overall water usage but over Project construction and decommissioning periods of 2 years.

<u>under Alternative C, the potential impacts on groundwater would be consistent with those discussed in</u> <u>Section 3.11 for the proposed Project.</u>

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The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6.11. Land Use and Planning

Alternative C would reduce the developable footprint of the Project by approximately 530 acres compared to the Project to allow establishment of a buffer between the Project and the Lake Tamarisk community. (See Figure 2-15) This alternative would also install two 10-foot-high berms along portions of the buffer boundary to shield views from Lake Tamarisk of some Project components. One berm would be at the northern edge of the buffer, adjacent to a planned solar array north of the buffer. The second berm would be on the eastern edge of the buffer, adjacent to a planned solar array east of the buffer. The berms would reduce visibility of some Project arrays and facilities for residents at Lake Tamarisk-, as would the relocated substation, BESS, and O&M building. -This would reduce land-use related impacts that might arise, such as loss of open space proximate to the community and would move construction disturbances farther from residences.

As with the proposed Project, the Further Reduced Footprint Alternative with Berms would not cause a significant impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6.12. Noise and Vibration

Alternative C would remove approximately 530 acres from development, when compared to the Project While acreage would be reduced, additional construction noise would occur with the installation of earthen berms in this alternative. The reduction in acreage would increase the distances to sensitive receptors from the proposed Project sources of noise and vibration. The decrease in solar panel area would result in a slight decrease in the potential for sensitive receptors to be exposed to noise and vibration near the existing community of Lake Tamarisk Desert Resort when compared with the impacts of the proposed Project. Given the distances between the Lake Tamarisk Desert Resort community and earthen berms in this alternative, the berms could provide a minor level shielding or reflection of sound propagation between Project sources and receivers.

Alternative C would reduce the noise and vibration levels experienced by sensitive receptors and reduce the noise and vibration impacts when compared to the proposed Project. Overall, the effects of Alternative C would be reduced from the proposed Project, and mitigation identified for the proposed Project would be the same for under this alternative.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6.13. Paleontological Resources

Alternative C includes a minimum 1-mile buffer setback from the Lake Tamarisk Desert Resort, two 10foot-high earthen berms, and relocation of the onsite substation/BESS and 500 kV gen-tie line. Alternative C would result in 530 acres that would not be developed as compared to the proposed Project. The partially relocated 500 kV gen-tie line would be more than 0.5 mile longer than the proposed Project gentie line. Despite the addition of the earthen berms, Alternative C would lead to a decrease in ground disturbance due to the large area of solar panels removed under this alternative. Operation of the project under Alternative C would be the same as for the proposed Project. Due to the decrease in ground disturbance, impacts related to damage or destruction of paleontological resources would be minimally less than for the proposed Project. Implementation of Mitigation Measures PR-1 through PR-4 would reduce potential adverse impacts on paleontological resources to a less-than-significant level.

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The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6.14. Population and Housing

Alternative C would reduce the developable footprint of the Project by approximately 530 acres to allow establishment of a greater than 1-mile buffer between the Project and the Lake Tamarisk community (See Figure 2-15). This alternative would also install two 10-foot-high berms along portions of the buffer boundary to shield views from Lake Tamarisk of some Project components. The Project substation and BESS would be relocated to lands by State Route 177 that would be developed with solar panels under the proposed Project. Alternative C would have similar construction and operational activities as the proposed Project, and therefore, Alternative C would have similar impacts to population and housing and impacts would be less than significant.

As with the proposed Project, the Further Reduced Footprint Alternative with Berms would not cause a significant impact due to directly or indirectly inducing substantial unplanned population growth.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6.15. Public Services and Utilities

The Further Reduced Footprint Alternative with Berms would reduce the developable footprint of the Project by approximately 530 acres to allow establishment of a greater than 1-mile buffer between the Project and the Lake Tamarisk community (See Figure 2-15). This alternative would also install two 10-foot-high berms along portions of the buffer boundary to shield views from Lake Tamarisk of some Project components. The gen-tie line would be at least 1.3 to 1.45 miles longer than the proposed Project gen-tie line to connect to the relocated substation/BESS. As with the proposed Project, the Further Reduced Footprint Alternative with Berms would not cause a significant impact on public services and utilities.

Alternative C would have similar construction and operational activities as the proposed Project, and therefore, Alternative C would have similar impacts to public services and utilities, and impacts would be less than significant.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6.16. <u>Recreation</u>

The Further Reduced Footprint Alternative with Berms would establish a buffer between the Project and the Lake Tamarisk community, thereby reducing the developable footprint of the Project by approximately 530 acres (see Figure 2-15 in Appendix A). The buffer would result in a large open space area around the community east of Kaiser Road. This alternative would also install two 10-foot-high berms along portions of the buffer boundary to shield views from Lake Tamarisk of some Project components. One berm would be at the northern edge of the buffer, adjacent to a solar array planned north of the buffer boundary. The second berm would be on the eastern edge of the buffer, adjacent to a planned solar array and BESS facility east of the buffer. The berms would reduce visibility of some Project arrays

and facilities for residents at Lake Tamarisk and recreational users accessing the buffer area. There are no designated BLM Open Routes (trails) within the buffer area. The Further Reduced Footprint Alternative with Berms would reduce recreation related impacts that might arise from Project development, such as the loss of open space proximate to the community. The alternative would move construction disturbances farther from residences. This would improve recreational access and use of the area as compared to the proposed Project, which would restrict access.

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The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6.17. Traffic and Transportation

The Further Reduced Footprint Alternative with Berms would remove approximately 530 acres from development around Lake Tamarisk to create a 1-mile buffer between the Project and the community. The balance of the proposed Project would be developed as planned. Access to areas to be developed under this alternative would be like access under the proposed Project. Vehicles and equipment would enter and exit the project site using Kaiser Road and SR-177 at ingress/egress points to be determined in consultation with Caltrans and Riverside County. Most traffic would use I-10 to reach the Project area. With a somewhat smaller project, the level of traffic would be slightly diminished. However, this would not be substantial and would likely be largely unnoticed by residents and users of these roads.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.6.18. Wildfire

The Further Reduced Footprint Alternative with Berms would establish a development exclusion area north and east of the community of Lake Tamarisk, reducing the Project's footprint by 530 acres. Two 10-foot-tall berms would be constructed on the northwest end and east end of the development exclusion area. Solar panels would not be constructed within the development exclusion area, and the substation and BESS would be moved northeast farther away from the community of Lake Tamarisk. Construction activities would not occur within the 500-acre exclusion area adjacent to the community of Lake Tamarisk; therefore, there would be a decrease in the risk of fire hazards associated with installation of fewer solar panels, as construction duration and number of workers would be reduced. The risk of fire spreading to the community of Lake Tamarisk would further decrease due to the increase distance between the Project site and the community. The gen-tie line would follow an alternative route and would preclude nearly 14 acres of solar panels along its 175-foot-wide right-of-way, which may result in increasing the ground cover ratio of solar panels, expanding the Project footprint, or reducing solar generation output.

The alternative substation and BESS would be farther from the community of Lake Tamarisk but would result in similar construction impacts as the proposed Project, as the same construction activities and associated fire risks would still occur. During operations, the risk of a fire igniting at the substation or BESS and spreading to the community of Lake Tamarisk would decrease due to the increased distance from the community. The gen-tie line under this alternative would be approximately 0.65 miles longer than that under the proposed Project. Therefore, the risk of fire hazards from operation of the longer gen-tie line may slightly increase.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.7. <u>Alternative D: Offsite Alternative – Impact Analysis</u>

5.2.7.1. Aesthetics

The Offsite Alternative would consist of approximately 4,620 acres and a gen-tie line connecting to the Oberon Switchyard or the Red Bluff Substation. As shown in Figure 2-16, this alternative would be located east and north of the existing Athos Project, north of the Clearway Arica and Clearway Victory Pass projects, and north of the Palen Project. Therefore, the Offsite Alternative's solar facilities and gen-tie line would be substantially obscured from view by other existing solar projects and, in the case of the gen-tie line if it connects into Red Bluff Substation, would be close to other gen-tie lines as it approaches I-10 to span the freeway and connect into Red Bluff Substation. As a result, the Offsite Alternative's visual impact on views from I-10 and SR-177 would be minimized. Equally important, with viewing distances ranging from approximately 4 to 10 miles, and several intervening existing solar projects and associated gen-tie lines, the Offsite Alternative would have minimal impacts on views from Lake Tamarisk Desert Resort. Therefore, in the context of the numerous existing solar facilities and gen-tie lines, the Offsite Alternative would have minimal impacts.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, however, unlike the proposed Project, the alternative's contribution would not be cumulatively considerable. The Offsite Alternative would only contribute to cumulative impacts in northern views (Desert Lily Sanctuary). From at-grade views from the south, east, or west, it would have minimal impact due to screening by other solar projects and vegetation. Alternative D would contribute slightly to cumulative visual impacts when viewed from elevated views (Alligator Rock), but the incremental impacts would be less than significant and are not considered to be cumulatively considerable.

5.2.7.2. Agriculture and Forestry

The Offsite Alternative (Alternative D) would be located southeast of the proposed Project application area and would include a gen-tie line to connect to the existing Oberon Switchyard or SCE Red Bluff Substation. None of the facilities under Alternative D would be on land zoned as Agriculture or within a parcel under a Williamson Act contract. There would be no direct, indirect, or cumulative impact to agriculture and forestry under Alternative D.

5.2.7.3. Air Quality

Alternative D would locate project components, including solar panels, further east of the community of Lake Tamarisk Desert Resort. The alternative site would increase the distances to sensitive receptors from the proposed Project sources of air pollutant emissions. The increased separation would result in a slight decrease in the potential for sensitive receptors to be exposed to emissions and pollutant concentrations near the existing community of LTDR when compared with the impacts of the proposed Project. However, longer travel distances over unpaved roads to reach the alternative site would increase the risk of dust emissions from vehicles traveling on these routes. By retaining a similar development footprint, the construction phase and operational emissions of Alternative D would not be appreciably changed compared to the proposed Project.

Alternative D would reduce the pollutant concentrations experienced by sensitive receptors and reduce air quality impacts when compared to the proposed Project. Overall, the direct, indirect, and cumulative effects of Alternative D would be slightly reduced from the proposed Project, and mitigation identified for the proposed Project would be the same under this alternative.

<u>The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3,</u> and the alternative's incremental contribution would not be cumulatively considerable.

5.2.7.4. Biological Resources

The Offsite Alternative is located 3 miles east of the proposed Project site, directly east of the Athos Solar Project and directly north of the Arica, Victory Pass, and Palen Solar Projects. This alternative is located on approximately 4,620 acres. A gen-tie line to the Oberon Switchyard or Red Bluff Substation would pass between the Athos and Victory Pass Solar Projects.

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Construction activities and the resulting impacts to biological resources would be qualitatively similar to the proposed Project; however, much of the Offsite Alternative area is subject to biological constraints (Figure 3.5-11). Biological resources in the Offsite Alternative include desert dry wash woodland, Emory's crucifixion thorn, creosote bush rings, and occurrences of Harwood's eriastrum, which may be impacted by ground disturbance (Figure 3.5-11). Other rare plants, Harwood's wooly aster (*Eriastrum harwoodii*, CRPR 1B.2) and Harwood's milkvetch (*Astragalus insularis var. harwoodii*, CRPR 2B.2) have potential to occur.

The Offsite Alternative would be sited on BLM-administered public lands in a DFA and on private lands. The western portion of the Offsite Alternative Area would overlap with a BLM DRECP multi-species linkage area located north of the I-10 freeway. The Oberon, Athos, Arica, and Victory Pass solar projects also overlap some areas of the linkage. These projects were designed to maintain linkage connectivity function and associated habitat, as well as avoid desert dry wash woodlands, per BLM DRECP CMAs (e.g., CMAs LUPA-BIO-13, LUPA BIO IFS 2. LUPA-BIO-RIPWET-1, DFA-VPL-BIO-IFS-1), thereby helping to preserve habitat and linkage functionality for wildlife movement through these areas. Solar development in the linkage area under the Offsite Alternative area could contribute to fragmentation of habitat and restrict wildlife movement across the linkage. Similar to the proposed Project and other projects within the DFA, compliance with CMAs on BLM lands would restrict development in desert dry wash woodlands and a 200-foot buffer except for minor incursion, which would maintain a portion of the multi-species linkage in the area. Additionally, if wildlife-friendly fencing is installed within the linkage area, as is proposed on Easley and Oberon Projects, then wildlife-friendly fencing would allow desert tortoise movement throughout the area during operations.

The eastern half and northwestern portion of Offsite Alternative area supports active aeolian deposits, which are recognized as areas of higher biological value, and numerous Mojave fringe-toed lizards, which are a California species of special concern and BLM sensitive. Much of the Offsite Alternative area overlaps with the Mojave fringe-toed lizard species distribution model and impacts to this species would be significant. Construction in active aeolian sands would result in unstable soils and increased erosion throughout the Offsite Alternative area.

Several DRECP CMAs restrict development in aeolian sands on BLM-administered lands and require siting of projects in areas with least impact to sand dunes and associated species. Rare plants require a setback, creosote rings must be avoided, and desert dry wash woodlands require avoidance and setbacks. Mitigation Measures, as listed in Section 3.5.7, would be implemented to reduce impacts; however additional measures would be needed to address significant impacts to Mojave fringe-toed lizard and aeolian sands and it is unknown if mitigation is available to reduce impacts to a less than significant level; impacts may be significant and unavoidable.

5.2.7.5. <u>Cultural and Tribal Cultural Resources</u>

Under this alternative, an onsite substation would be constructed in the southern area of the site and an approximately 1 mile 500 kV gen-tie line would connect the onsite substation into the existing Oberon Switchyard or would connect directly into existing SCE Red Bluff Substation on the south side of Interstate 10 (approximately 1.8 miles). The gen-tie line would be at least 5 miles shorter than the gen-tie line under the proposed Project. However, under the Offsite Alternative, the number of CRHR eligible resources

within the direct impact area would be the same as for the proposed Project, consisting of 3 archaeological resources, including P-33-023675 and the PTNCL and DTCCL historic districts. Results of the Phase I survey found no evidence of archaeological remains associated with any of these resources within the Project's direct impact area. As such, the direct impacts to cultural resources for this alternative would be the same as for the proposed Project.

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Portions of the PTNCL, DTCCL, P-33-023675, and P-33-025150 are located within Alternative D's indirect impact area, similar to the proposed Project. Overall, the direct and indirect impacts of this alternative would be the same as the proposed Project and would be less than significant with mitigation implemented, as defined in Section 3.6. Therefore, the direct and indirect impacts of this alternative would be the same as the proposed Project, less than significant with mitigation implemented as defined above.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would be cumulatively considerable.

5.2.7.6. <u>Energy</u>

Alternative D would not result in any significant changes to the construction or operational activities as they relate to energy. Because Alternative D would retain a renewable energy generation capacity of 400 MW and would not change the capacity of the proposed BESS, the quantity of electricity produced by the solar PV component and the amount of energy able to be stored would be the same as with the proposed Project. Other effects on energy would not be appreciably changed compared to the proposed Project. The impacts of Alternative D would be similar to the proposed Project. The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.7.7. Geology, Soils, and Mineral Resources

The Offsite Alternative (Alternative D) would be similar to the proposed Project in size and components but would be entirely located in an area east of SR-177/Rice Road and the 500 kV gen-tie line would be at least 5 miles shorter than the gen-tie for the proposed Project. Construction of the Alternative D would disturb an area similar to the proposed Project. Operation of the project under Alternative D would be the same as the proposed Project.

Impacts related to slope stability, seismic hazards, expansive soils, mineral resources, topography, and subsidence would be the same as for the proposed Project. Based on biological surveys conducted of the Offsite Alternative area in Fall 2021 (Ironwood, 2021), areas of desert pavement are located in the southwestern and eastern portions of Alternative D, with many of the areas within and adjacent to desert dry wash woodland. However, Alternative D would disturb less desert pavement than the proposed Project.

Most of the northern and eastern portions of Alternative D are located with the sand migration corridor for the Palen Lake dune system, which includes older stable dunes, active eolian sand and sand sheets, and active washes that are eolian sand sources (BLM, 2021). Ground disturbance for Alternative D could destabilize or destroy dunes and sand sheets which serve as critical habitat. Additionally, within the sand transport corridor, most sand transport occurs close to the ground through the processes of rolling and saltation (bouncing of sand particles), and solar project components may block this action, resulting in loss of or redirection the sand source for sand dunes and sand sheets (BLM, 2021). Alternative D construction and operation could result in the loss of onsite sand migration and active sand sheets and the loss of sand sources for offsite dunes which could cause the erosion of on- and offsite existing dunes without replacement from upwind sources (BLM, 2021). Design of Alternative D to minimize damage to dunes and sand sheets and interference and blocking of sand migration would reduce impacts to the sand migration corridor and sand migration zones, however based on the placement of the alternative within the sand migration corridor impacts to sand migration and critical sand dune habitat would be unavoidable. Several DRECP CMAs restrict development and require sediment transport and deposition to be continued on BLM-administered land in these areas, including LUPA-BIO-DUNE-1, LUPA-BIO-DUNE-2, and LUPA-BIO-DUNE-3.

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Due to most of Alternative D being with a sand transport corridor that contains soils with a high percentage of fine eolian sand, these soils are likely to be more erodible than the soils within the proposed Project site. However, implementation of MM AQ-1, MM BIO-1, MM BIO-3, MM BIO-5, MM HWQ-1, and MM HWQ-5, and applicable local, State, and federal regulations would reduce impacts to less than significant.

5.2.7.8. <u>Greenhouse Gas Emissions</u>

Alternative D would not result in any significant changes to the construction or operational activities as they relate to GHG emissions. Because Alternative D would retain a renewable energy generation capacity of 400 MW and would not change the capacity of the proposed BESS, the quantity of electricity produced by the solar PV component and the potential avoidance of GHG emissions would be the same as with the proposed Project. Other effects on GHG emissions would not be appreciably changed compared to the proposed Project. The direct, indirect, and cumulative impacts of Alternative D would be similar to the proposed Project.

5.2.7.9. Hazards and Hazardous Materials

The Offsite Alternative (Alternative D) would be of similar size as the proposed Project but would locate proposed Project components, including the solar arrays, in a location further from the LTDR and east of SR-177/Rice Road. The relocation of the proposed Project would result in the gen-tie line being at least 5 miles shorter than the gen-tie line under the proposed Project, Reduced Footprint Alternative (Alternative B), and Further Reduced Footprint Alternative with Berms (Alternative C). Construction, operation, and maintenance activities for Alternative D would be the same as for the proposed Project.

Impacts related to use and storage of hazardous materials, potential for spills or leaks of hazardous materials, and aviation hazards, would be the same as for the proposed Project and would be reduced to less than significant through compliance with local, State, and federal regulations. Alternative D is similar in size to the proposed Project and would have similar potential for wildland fires to impact the public, potential for exposure of the public to contracting Valley Fever, potential for workers and the public to be exposed to pesticides or herbicides, and potential for workers to encounter unexploded ordnance. The relocation of the proposed Project further from the LTDR would result in a slight decrease in the potential for residents of the LTDR to be exposed to these impacts as compared to the proposed Project, Alternative B, and Alternative C. However, hazards and hazardous materials impacts would be reduced to less than significant by implementing of the same mitigation measures as for the proposed Project (MM AQ-1, MM FIRE-1, MM HAZ-1, MM HAZ-2, MM HAZ-3), as appropriate, and compliance with applicable local, State, and federal regulations. The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.7.10. Hydrology and Water Quality

The Offsite Alternative includes a Project developable footprint of approximately 4,620 acres and a gentie to the Red Bluff Substation. Topography and existing drainage conditions on the site are similar to those of the proposed project. Project features are assumed to be similar to the proposed Project under the Offsite Alternative. Surface water impacts would therefore remain the same as for the proposed Project, but possibly increased in magnitude due to the enlarged Project application area. The Offsite Alternative would require the same mitigation measures to be implemented as would be required for the proposed Project, with the same impact significance. Therefore, because both the proposed Project and the Offsite Alternative would result in less than significant impacts with adherence to all applicable regulations and mitigation measures, impacts related to hydrology and water quality from the Offsite Alternative would be similar to those of the proposed Project.

In June 2023, BLM issued a Proposed Rule to amend its existing ROW regulations, issued under authority of the Federal Land Policy and Management Act (FLPMA), and is considering issuing Right-of-Way (ROW) grants for durations of up to 50 years (BLM, 2023). To prepare for potential issuance of a 50-year ROW Grant by the BLM (outside of CEQA) and to determine whether there are sufficient supplies to sustain the Project, the Easley WSA conservatively extends the total projected period of the Project to 52-years. For the purpose of the CVGB water budget (see GSI, 2024 Section 6) and predictive Project water demand impacts analysis (see GSI, 2024 Sections 5.4 and 7) presented herein, 52 years is equivalent to the projected total duration of the Project, including construction (20 months), operations (48 years), and decommissioning (20 months).⁴³

The Project would use up to 1,000 AF during the planned 20-month construction period and up to 50 AFY during the Project's operational and decommissioning periods. The Project would use a total of approximately 3,500 AF over the assumed 52-year life of the Project. If the estimated water demand for the Project was used equally per acre (the Project solar and BESS facility site is proposed on approximately 3,735 acres), the Project would use approximately 0.27 AF per acre during construction and 0.01 AF per acre per year during the operational phase of the Project. Using the same AF per acre water use assumptions, the Offsite Requested Alternative would require approximately 1,240 AF during the construction phase and 62 AFY during the operational phase of the Project.

Although there would be an increase in groundwater use under the Offsite Alternative, the potential impacts on groundwater are anticipated to be consistent with those discussed in Section 3.11.6 for the proposed Project.

The Easley WSA (GSI, 2024; see EIR Appendix G) discusses the occurrence of potential groundwater dependent ecosystems within the CVGB. Groundwater dependent ecosystems (GDEs) are defined as ecological communities or species that depend on groundwater emerging from aquifers or on groundwater present near the ground surface. Principal plant types of the CVGB include palo verde (*Parkinsonia florida*), shrubby seepweed (*Suaeda moquinii*), honey mesquite (*Prosopis glandulosa*), desert lavender (*Condea emoryi*), creosote-bush (*Larrea tridentata*), iodine bush (*Allenrolfea occidentalis*), and ironwood (*Olneya tesota*). Screening for these potential GDEs in the CVGB (particularly near the Project) indicated their occurrence was primarily within or adjacent to Palen Dry Lake.

An analysis of depth to groundwater in the regional aquifer within the western portion of the CVGB was used to screen areas in which these GDEs could potentially gain access to groundwater from the regional aquifer. The groundwater model (used for the Easley WSA Cone of Depression and Cumulative Drawdown Analysis) was used to simulate changes in regional water levels in response to solar project development through expected project decommissioning in the year 2075. The modeling results show that only minor changes in regional groundwater levels (lowering of groundwater levels up 0.5 to 0.25 feet within the areas of the GDEs) would result from development of the planned cumulative solar projects compared to simulated 2075 baseline conditions and would not have an effect on the ability of the GDEs to access groundwater.

The Offsite Alternative would shift the Project location immediately south-southwest of Palen Dry Lake and Big Wash, coincident with the occurrence of some the potential GDEs discussed above (and identified in the Easley WSA). The drawdown of the regional aquifer in the western half of the CVGB from devel-

⁴³ Although the estimated Project construction period and decommissioning period described in the EIR Chapter 2 (Project Description) is 20 months, the water budgets (see GSI, 2024 Section 6) and Cone of Depression and Cumulative Drawdown Analysis (see GSI, 2024 Section 7), were developed in 1-year time steps, and therefore, assume the same overall water usage but over Project construction and decommissioning periods of 2 years.

opment of the planned cumulative solar projects under the Offsite Alternative is anticipated to be similar to the drawdown discussed above. However, because the Project's pumping well(s) would be located closer to the potential GDEs identified in the CVGB, there is an increased possibility of impact to any GDEs located in the Palen Dry Lake Area and Big Wash, adjacent to the Offsite Alternative proposed Project location, due to the proximity of the Project well's cone of depression to the GDEs.

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The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.7.11. Land Use and Planning

The Offsite Alternative would develop a solar project east of SR-177 and east and south of the Desert Center Airport on lands not currently occupied by existing solar projects. At its closest, the Offsite Alternative would be over 3.5 miles from the Lake Tamarisk community. This alternative would require a new gen-tie line between the project and either the Oberon Switchyard or SCE's Red Bluff Substation south of I-10, crossing over the freeway rather than tying into the Oberon Switchyard north of I-10.

Approximately half of the Pproject site is within the Desert Center Area Plan (DCAP). Under DCAP the Project area is designated as open space/conservation, which is the designation applied to nearly all of the DCAP area. The County General Plan applies the same designation to the alternative project site outside of the DCAP. However, most of the land in the Offsite Alternative is under BLM rather than County jurisdiction. Development of a solar project at the Offsite Alternative site would abut several existing solar projects to the south.

As with the proposed Project, the Offsite Alterative would not cause a significant direct, indirect, or cumulative impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.

5.2.7.12. Noise and Vibration

Alternative D would locate project components, including solar panels, further east of the community of Lake Tamarisk Desert Resort. The alternative site would increase the distances to sensitive receptors from the proposed Project sources of noise and vibration. The increased separation would result in a slight decrease in the potential for sensitive receptors to be exposed to noise and vibration near the existing community of LTDR when compared with the impacts of the proposed Project.

Alternative D would reduce the potential for noise and vibration experienced by sensitive receptors and reduce noise and vibration impacts when compared to the proposed Project. Overall, the direct, indirect, and cumulative effects of Alternative D would be reduced from the proposed Project, and mitigation identified for the proposed Project would be the same under this alternative.

The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.7.13. Paleontological Resources

The Offsite Alternative (Alternative D) would be similar to the proposed Project in size and components but would be entirely located in an area east of SR-177/Rice Road and the 500 kV gen-tie line would be at least 5 miles shorter than the gen-tie for the proposed Project. Construction of the Alternative D would disturb an area similar to the proposed Project. Operation of the project under Alternative D would be the same as the proposed Project.

The Offsite Alternative is underlain by Recent dune sand and Recent alluvium (BLM, 2021). The recent dune sand consists primarily of wind-blown (eolian) sand in the form of dunes and sheets that sometimes

has "blowouts" between the eolian sand features (area where the sand has blown away and the underlying sediment is exposed). The Recent alluvium (Qal) is described as alluvial sand, silt, clay, and gravel, including locally some older alluvium (BLM, 2021). The Paleontological Survey report conducted for the adjacent Arica Solar project (BLM, 2021) identified Pleistocene fossils within the areas mapped as Recent alluvium. The Arica Solar Paleontological Survey assigned the Recent dune sand a rating of PFYC 2 (Low), the intervening valley floor between the dunes and the "blowouts" was rated PYFC 4 (High), and the Recent alluvium (Qal) was rated as PFYC 3 (Moderate). Although the Offsite Alternative would disturb an approximately equivalent area, due to the large areas of dune sand underlying this alternative with low paleontological potential (PFYC 2), there is a minimally decreased potential to disturb or destroy paleontological resources as compared to the proposed Project. Similar to the proposed Project, iImplementation of Mitigation Measures PR-1 through PR-4 would reduce potential adverse impacts on paleontological resources to a less-than-significant level. The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

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5.2.7.14. Population and Housing

The Offsite Alternative would develop a solar project east of SR--177 and east and south of the Desert Center Airport on lands not currently occupied by existing solar projects. At its closest, the Offsite Alternative would be over 3.5 miles from the Tamarisk Lake community. This alternative would require a new gen-tie line between the project and either the Oberon Switchyard or SCE's Red Bluff Substation south of I-10. Alternative D would have similar construction and operational activities as the proposed Project, and therefore, Alternative D would have similar impacts to population and housing and impacts would be less than significant.

As with the proposed Project, the Offsite Alternative would not cause a direct, indirect, or cumulative significant impact due to directly or indirectly inducing substantial unplanned population growth.

5.2.7.15. Public Services and Utilities

The Offsite Alternative would develop a solar project east of SR--177 and east and south of the Desert Center Airport on lands not currently occupied by existing solar projects. At its closest, the Offsite Alternative would be over 3.5 miles from the Tamarisk Lake community. This alternative would require a new gen-tie line between the project and the existing Oberon Switchyard or SCE's Red Bluff Substation south of I-10, crossing over the freeway rather than tying into the Oberon substation north of I-10. As with the proposed Project, Alternative D would not cause a significant impact on public services and utilities. Alternative D would have similar construction and operational activities as the proposed Project, and therefore, Alternative D would have similar direct, indirect, and cumulative impacts to public services and utilities and impacts would be less than significant.

5.2.7.16. <u>Recreation</u>

The Offsite Alternative would develop a solar project east of SR-177 and over 3.5 miles from the Tamarisk Lake community. This alternative would be adjacent to and north of other existing solar projects located north of I-10 and southeast of the Desert Center Airport and Chuckwalla valley raceway. The alternative site overall is approximately 4,620 acres. This alternative would require a new gen-tie line between the Project and either the Oberon Switchyard or SCE's Red Bluff Substation south of I-10, crossing over the freeway rather than tying into the Oberon Switchyard north of I-10.

Most of the land in the Offsite Alternative is under BLM rather than County jurisdiction. BLM Open Routes DC378 and DC511 are found in the southwest corner of the site. BLM Open Route DC378 has been truncated on the west and east by existing solar projects and no longer provides a through route.

BLM Open Route DC511 remains as an open route through the solar projects in the area and would be accommodated by the layout of any arrays under the Offsite Alternative. BLM Open Route DC502 is a BLM Open Route in the southeast quadrant of the alternative site that ends within the site. However, it has been truncated by existing solar projects south of the alternative. The Desert Lily Sanctuary is approximately 3.6 miles north of the site, near SR-177. Most of the land north of the alternative site is under BLM jurisdiction and open to recreational users.

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The Offsite Alternative would limit recreational access immediately north of the existing solar projects. Assuming that the lands planned to be used for the proposed Project remain undeveloped, the Offsite Alternative would result in undiminished recreational access for users around the Lake Tamarisk community. The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.7.17. Traffic and Transportation

The Offsite Alternative would be in an area remote from existing paved roads. It would be north of existing solar projects previously developed north of I-10 and east of SR-177 (Rice Road). Access to the Offsite Alternative location would be by way of unpaved roads off of SR-177 and, possibly, Ragsdale Road. These would likely be roads used for the development of the existing solar project in the vicinity or routes along power lines. One point of access may via BLM Open Route DC322, a BLM Open Route near the Desert Center Airport. Using this route, the western edge of the Offsite Alternative is approximately 2.6 miles from SR-177. Also, BLM Open Route DC510 (Comanche Trail) extends east from SR-177 to a junction with DE322. This route is approximately 3.22 miles from SR-177 to the western edge of the alternative site. An unnamed dirt access road north from Ragsdale Road extends 4.7 miles to a point where a 0.5-mile spur road could be developed northward to access the alternative site. It may be feasible to develop a new road to the alternative site's eastern end from the Corn Springs Road exit on I-10, approximately 9.3 miles east of Desert Center, although such a route would be hampered by existing solar arrays, resulting in a circuitous route.

While the Offsite Alternative would eliminate project-related traffic from Kaiser Road, it is likely to simply shift the traffic to SR-177, thereby increasing traffic on this highway. Longer travel distances over unpaved roads to reach the alternative site would increase the dust emissions from vehicles traveling on these routes and would potentially limit access to the site during and after storm events when dirt roads may be impassable. The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.7.18. Wildfire

The Offsite Alternative would be located east of SR-177/Rice Road and east and north of existing developed solar projects, including Athos, Victory Pass, Arica, and Palen Solar Projects. The developable acreage is approximately 4,620 acres, and the gen-tie line under this alternative would be shorter than under the proposed Project. This alternative may result in slightly greater wildfire risks during construction compared to the proposed Project due to potential increase in the solar and BESS site application area (4,620 acres compared to 3,735 acres). However, this alternative would result in a reduced risk of wildfire spreading to the community of Lake Tamarisk due to the increased distance from the community and with existing solar facilities acting as potential buffers that may slow down the spread of a potential fire. Furthermore, the shorter gen-tie line length would result in a slight decrease in risk of fire hazards. The types of potential cumulative impacts would be as described for the proposed Project in Chapter 3, and the alternative's contribution would not be cumulatively considerable.

5.2.8. <u>Alternative E: Distributed Commercial and Industrial Rooftop Solar</u> <u>Alternative – Impact Analysis</u>

5.2.8.1. Aesthetics

The installation of small to medium solar PV systems on large commercial and industrial rooftops would be visually unobtrusive or not noticeable from receptors at ground level. While such systems may be visible from other vantage points, the installation of rooftop small to medium solar PV systems would not likely affect the visual character or quality of an area, because the character or quality of an area has already been altered as a result of the existing building's construction. Compliance with city or county ordinances and rooftop solar ordinances would ensure that aesthetics impacts would be less than significant.

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More severe impacts may result if rooftop solar were proposed on historic buildings, because such installations could affect the historic character and integrity of the buildings. Implementation of this alternative would require historic surveys and investigations to evaluate the eligibility of potentially historic structures that are over 50 years old. Such structures would either have to be avoided, or there would have to be incorporation of design measures to minimize impacts on historic integrity of historically significant structures. The Distributed Commercial and Industrial Rooftop Solar Alternative would have less than significant direct, indirect, and cumulative impacts on aesthetics.

5.2.8.2. Agriculture and Forestry

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of existing commercial and industrial facilities. Since the solar PV systems proposed for this alternative would be constructed on existing structures, this alternative would not create any changes in the existing environment that would convert land that is designated Farmland or forest land to non-agricultural or non-forest uses. As such, no direct, indirect, or cumulative impacts to agriculture or forestry resources would occur.

5.2.8.3. Air Quality

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of existing commercial and industrial facilities. Under this alternative, no construction activities associated with ground disturbance would occur, reducing some temporary construction-related air quality impacts. However, depending on the availability and location of rooftops, this alternative may require a substantial number of truck trips to transport the solar panels, racking systems and associated electrical equipment to dispersed locations, potentially resulting in significant emissions. However, the construction associated with this alternative is unlikely to create dust during construction since installation of solar systems is assumed to take place in already paved and developed areas.

During operation, this alternative would have similar impacts on air quality as the project related to occasional vehicular visits for maintenance. As such, operational impacts would be less than significant.

5.2.8.4. Biological Resources

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of commercial and industrial facilities situated throughout Riverside County. The Project site would remain undeveloped and only developed areas, typically on the rooftops of commercial and industrial facilities would be modified.

Given that rooftops of existing commercial and industrial facilities would be used for solar PV system installation, these areas would be unlikely to provide habitat for special-status species. Development of this alternative would not disturb any land or remove habitat for special-status plants and wildlife or have a substantial adverse effect on any riparian habitat. As such, the requirement for mitigation measures would be unlikely, and impacts would be less than significant.

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5.2.8.5. <u>Cultural and Tribal Cultural Resources</u>

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of commercial and industrial facilities situated throughout Riverside County. Given that development would occur on the rooftops of existing structures, there would be no potential for disturbance or damage to buried archaeological resources and human remains. If rooftop solar systems were proposed on historic buildings, this alternative could affect the historic character and integrity of these buildings, as well as the character and views of adjacent historical resources. However, historic surveys and investigations would be conducted prior to project construction to identify known eligible historical resources and to evaluate the eligibility of potentially historic structures that are 50 years or older; historic structures would be either avoided or the alternative would be required to incorporate mitigation and design measures to minimize the impact on these structures. In the case of eligible historical resources, design measures must be in accordance with the Secretary of the Interior standards and the impact must not affect the eligibility of such resources or adjacent resources. Therefore, unanticipated impacts to unknown or known cultural resources would not occur under this alternative. Impacts would be less than significant. With the appropriate mitigation measures in place to reduce impacts to historical resources, the potential to disturb or discover unknown cultural resources within the project area would be less than significant.

With respect to Tribal Cultural Resources, the Distributed Commercial and Industrial Rooftop Solar Alternative, it is unlikely that the proposed rooftop solar systems would have an impact. However, prior to construction of the components of this alternative, the Native American Heritage Commission would be contacted for a search of the Sacred Land Files for the areas surrounding each of the facilities that would be installed under Distributed Commercial and Industrial Rooftop Solar Alternative. In addition, the County would conduct additional consultation with California Native American tribes on the County's Master List for AB 52, apprising them of the alternative project description.

It is anticipated that the Sacred Land Files and consultation would not result in the identification of any tribal cultural resources that could be impacted by the alternative, either directly or indirectly; however, should it be determined the potential exists, this construction occurring under this alternative would avoid impacting any such resources through avoidance and re-design. Due to the nature of the Distributed Commercial and Industrial Rooftop Solar Alternative, it is very unlikely to have an impact on tribal cultural resources. As such, the Distributed Commercial and Industrial Rooftop Solar Alternative and Industrial Rooftop Solar Alternative and Industrial Rooftop Solar Alternative.

5.2.8.6. Energy

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of commercial and industrial facilities situated throughout Riverside County. Construction of this alternative may require a significant number of trucks trips to transport and install the solar panels on the rooftops of existing buildings in dispersed locations, although it would not require off-road driving or off-road construction equipment. Therefore, the Distributed Commercial and Industrial Rooftop Solar Alternative likely would have a less than significant impact related to wasteful, inefficient, or unnecessary consumption of energy resources and this alternative likely would not conflict with or obstruct a state or local plan

for renewable energy or energy efficiency. Likewise, the cumulative impact would be less than significant. The Project's incremental contribution to impacts to population and housing would not be cumulatively considerable.

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5.2.8.7. Geology, Soils, and Mineral Resources

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of commercial and industrial facilities situated throughout Riverside County. Given that only developed areas would be modified and the systems would be installed on existing structures, there would be no potential for the Distributed Commercial and Industrial Rooftop Solar Alternative to directly or indirectly cause potential substantial adverse effects involving rupture of a known earthquake fault, strong seismic ground shaking, seismic-related ground failure, and landslides. Such a solar installation would not result in substantial soil erosion or loss of topsoil, create onsite or offsite landslides, or be located on expansive soil. Development of rooftop solar would require adherence to all requirements of the Riverside County Building Ordinances. Therefore, impacts would be less than significant.

Direct, indirect, and cumulative il-mpacts to mineral resources would not be expected to occur, since this alternative would not create new ground disturbance.

5.2.8.8. <u>Greenhouse Gas Emissions</u>

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of existing commercial and industrial facilities. This alternative would not generate GHG emissions from off-road equipment, but a substantial number of truck trips may be required to transport solar panels to dispersed rooftop locations and to support installation personnel. Additionally, the distributed systems on rooftops would lack tracking systems and be less efficient, generating less energy per panel than those that would be installed as part of the proposed Project.

In addition, this alternative includes no energy storage, whereas the project would provide 650 MW of storage to maintain energy-generating capacity when sunlight is not available. As such, this alternative has a reduced ability to offset GHG emissions from fossil-fueled generation.

Therefore, the Distributed Commercial and Industrial Rooftop Solar Alternative likely would have less than significant impacts related to generating GHG emissions that may have a significant impact on the environment or consistency with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. However, impacts related to GHG emissions would be greater under this alternative compared to the proposed Project due to the lower efficiency of the distributed systems, which would not include solar tracking technology and battery energy storage.

5.2.8.9. Hazards and Hazardous Materials

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of existing commercial and industrial facilities situated throughout Riverside County. The installation of rooftop solar equipment on existing structures would involve few hazardous materials (such as chemicals and fuels that are used for construction on undeveloped sites).

Because the construction of rooftop solar would likely be permitted through compliance with local ordinances and permit requirements, no additional mitigation is assumed to be required. Permits would likely require some level of control of hazardous materials and post-installation inspections to ensure that site <u>clean-up is completed.</u> Likewise, the cumulative impact would be less than significant. The Project's incremental contribution to impacts to population and housing would not be cumulatively considerable.

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5.2.8.10. Hydrology and Water Quality

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of existing commercial and industrial facilities situated throughout Riverside County. No ground disturbance related to construction would be required under this alternative.

Compliance with the NPDES Construction General Permit and development and implementation of a SWPPP would not be required under the Distributed Commercial and Industrial Rooftop Solar Alternative. Construction would be authorized through permit requirements and compliance with local ordinances. Installation of small to medium rooftop solar PV systems on existing commercial and industrial facilities in Riverside County would have no effect on existing drainage patterns, and flow paths would not be altered.

Riverside County is located well inland and far from the ocean or any enclosed or semi-enclosed water body such that there would be no potential threat from tsunami or seiche hazards; these impacts would be less than significant. In addition, water demand for construction and operation phases under the Distributed Commercial and Industrial Rooftop Solar Alternative would be small, and likely provided by local municipal sources with no effect on groundwater. Therefore, implementation of this alternative would not conflict with groundwater management practices; potential impacts would be less than significant. Likewise, the cumulative impact would be less than significant. The Project's incremental contribution to impacts to population and housing would not be cumulatively considerable.

5.2.8.11. Land Use and Planning

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of existing commercial and industrial facilities situated throughout Riverside County. Installation of rooftop solar would be permitted only where consistent with current zoning as well as existing land use plans, policies, and regulations.

The Distributed Commercial and Industrial Rooftop Solar Alternative would also support County's goals and policies relative to accommodating renewable energy facilities. However, the placement of solar panels on other structures throughout the region would result in unknown entitlement requirements, depending on the project location, zoning, land use, and potential environmental impacts on the site and surrounding areas. Each project proponent would be required to comply with the specific entitlements needed to construct solar PV systems consistent with this alternative. As a result of anticipated compliance with existing requirements, impacts to land use and planning would be less than significant. Likewise, the cumulative impact would be less than significant. The Project's incremental contribution to impacts to land use would not be cumulatively considerable.

5.2.8.12. Noise and Vibration

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of existing commercial and industrial facilities. Rooftops of existing commercial and industrial buildings that would be developed under this alternative would be located in developed, and primarily industrial and commercial areas. As a result, while noise related to construction activities could impact sensitive receptors like residences, it is more likely that construction noise would not be noticeable. The operational noise

generated from these solar PV systems would be minor, because the inverters required for rooftop solar systems are small and relatively quiet.

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With regard to vibration, construction of the Distributed Commercial and Industrial Rooftop Solar Alternative would not require the use of vibratory rollers or other construction equipment with high groundborne vibration levels. Therefore, it is likely that construction vibration would have a less than significant construction vibration impact. Similar to the proposed Project, operation of the Distributed Commercial and Industrial Rooftop Solar Alternative would require regular maintenance trucks and panel washing activities. Whether rooftop solar systems are proposed on historic buildings, which are more susceptible to vibration damage, or other types of newer buildings, this level of vibration would not exceed vibration thresholds and, as such, would result in less than significant impacts. Likewise, the cumulative impact would be less than significant. The Project's incremental contribution to impacts to population and housing would not be cumulatively considerable.

5.2.8.13. Paleontological Resources

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of commercial and industrial facilities situated throughout Riverside County. This development would occur on the rooftops of existing structures, and would not require ground disturbance. As a result, there would be no potential for direct, indirect, or cumulative disturbance or damage to buried paleontological resources.

5.2.8.14. Population and Housing

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar photovoltaic systems would be developed, typically on the rooftops of commercial and industrial facilities situated throughout Riverside County. Development would occur on the rooftops of existing structures, and would not require construction of new buildings or housing. Construction would be done by workers already employed by solar installation companies in the county. There would be no direct, indirect, or cumulative impacts driving increased population or the need for more housing.

5.2.8.15. Public Services and Utilities

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of existing commercial and industrial facilities situated throughout Riverside County and the project site would remain undeveloped. The Distributed Commercial and Industrial Rooftop Solar Alternative would not introduce structures into a currently undeveloped area and is not expected to temporarily or permanently increase the concentration of people in an area, driving the demand for additional services.

With regard to fire protection, it is expected that rooftop solar PV systems would be installed in urbanized areas with existing fire services. However, a large increase in rooftop solar could result in the need to expand electric distribution systems to accommodate flow of power in and out of local substation. This alternative would require any developer to pay applicable County fees to compensate for any permanent impacts to fire protection services and facilities resulting from the operation of this alternative. Implementation of permit conditions and conditions of local ordinances would result in impacts related to fire protection being less than significant.

With regard to police protection, because the proposed small to medium solar PV systems would be installed in developed areas on existing buildings, it is unlikely that construction and operation of the alternative would require additional police presence or attention. While there would be increased levels

of traffic with truck trips during construction and routine maintenance during operation of this alternative, these volumes would be minimal and would not likely have a significant and adverse effect on County protective service provision or CHP's ability to patrol the highways. Impacts would be less than significant.

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With regard to water demand, the Distributed Commercial and Industrial Rooftop Solar Alternative would likely require minimal water as no dust suppression would be required during construction. This alternative would also result in minimal generation of wastewater and usage of electrical power, natural gas, and telecommunications. In addition, construction of the Distributed Commercial and Industrial Rooftop Solar Alternative would not substantially alter stormwater drainage.

With regard to operation, solar panel washing for rooftop solar facilities is infrequent, given the location of panels on rooftops of buildings throughout developed areas of Riverside County. As the Distributed Commercial and Industrial Rooftop Solar Alternative would not require construction in unpaved areas, this alternative would not result in new impervious surfaces.

Overall, impacts to public services, utilities, and service systems would be less than significant. Likewise, the cumulative impact would be less than significant. The Project's incremental contribution to impacts to population and housing would not be cumulatively considerable.

5.2.8.16. Recreation

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of existing commercial and industrial facilities situated throughout Riverside County and the project site would remain undeveloped. Because the facilities installed in the Distributed Commercial and Industrial Rooftop Solar Alternative would be installed in developed areas that would be typically industrial or commercial areas. These areas tend not to support recreational facilities because there is little residential population creating demand for recreational opportunities. As a result, the impact to recreation would be less than significant. Likewise, the cumulative impact would be less than significant. The Project's incremental contribution to impacts to population and housing would not be cumulatively considerable.

5.2.8.17. Traffic and Transportation

<u>Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically</u> <u>distributed small to medium solar PV systems would be developed, typically on the rooftops of existing</u> <u>commercial and industrial facilities situated throughout Riverside County.</u>

Construction of this alternative would require numerous vehicle trips during construction to transport and install the solar panels. However, the trips would be widely dispersed throughout the developed areas of the County, given the location of the existing facilities, thereby avoiding impacts on rural roadways. Due to dispersed locations of rooftop installations, roadways within Riverside County are not expected to operate at levels that would trigger a significant transportation impact during construction of this alternative.

During operation of this alternative, day-to-day operations and maintenance trips would be infrequent and would not substantially add to traffic in the county. However, as with construction, these maintenance trips would be dispersed given the location of the existing facilities. Due to the dispersed location of anticipated facilities, construction and operational impacts would be less than significant.

With regard to consistency with CEQA *Guidelines* Section 15064.3(b), the operation of the Distributed Commercial and Industrial Rooftop Solar Alternative would not increase vehicle trips or distances for the workforce already occupying the buildings that host the rooftop panels. There would be some increase in vehicle trips, but primarily during construction, so vehicle trips would not be ongoing. The occasional maintenance activities may be performed by workers already employed onsite. Therefore, impacts related to vehicle miles traveled would be less than significant under the Distributed Commercial and Industrial Rooftop Solar Alternative. Likewise, the cumulative impact would be less than significant. The Project's incremental contribution to impacts to population and housing would not be cumulatively considerable.

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5.2.8.18. Wildfire

Under the Distributed Commercial and Industrial Rooftop Solar Alternative, a number of geographically distributed small to medium solar PV systems would be developed, typically on the rooftops of existing commercial and industrial facilities situated throughout Riverside County. The addition of large amounts of rooftop solar generation facilities could require installation of expanded electric distribution facilities (lines or substations) in the developed areas. However, these facilities would be constructed in urban areas with little open space and wildfire risk. The potential risks associated with rooftop solar facilities are generally addressed in building codes and ordinances specific to installation of these systems, and the residual risk would be less than significant.

Development of the Distributed Commercial and Industrial Rooftop Solar Alternative would not require grading and excavation at each project site. As a result, there is little likelihood of construction-induced fire risk. Likewise, the cumulative impact would be less than significant. The Project's incremental contribution to impacts to population and housing would not be cumulatively considerable.

5.3. Comparison of Alternatives

This <u>sub</u>section summarizes and compares the environmental advantages and disadvantages of the proposed Project and the alternatives evaluated in this EIR. This comparison is based on the assessment of environmental impacts of the proposed Project and each alternative, as identified in Section 3 (Environmental Impacts of Proposed Project and Alternatives) and Section 5.2 (Alternatives Analyzed in Detail).

5.3.1. CEQA Requirements for Alternatives Comparison

CEQA requires the following for alternatives analysis and comparison:

The EIR shall include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the Proposed Project. A matrix displaying the major characteristics and significant environmental effects of each alternative may be used to summarize the comparison. If an alternative would cause one or more significant effects in addition to those that would be caused by the project as proposed, the significant effects of the alternative shall be discussed, but in less detail than the significant effects of the project as proposed. *State Guidelines Section 15126.6(d)*

If the environmentally superior alternative is the No Project Alternative, CEQA requires identification of an environmentally superior alternative among the other alternatives [State CEQA Guidelines Section 15126.6I(2)].

5.3.2. Comparison Methodology

The following methodology was used to compare alternatives in this EIR:

Step 1: Identification of Alternatives. A screening process (described in Section 2.8, Alternatives Analyzed in Detail) was used to identify alternatives to the proposed Project. A No Project Alternative was also identified. This range of alternatives is sufficient to foster informed decision-making and public participation. No other feasible alternatives meeting most of the Project objectives were identified that would lessen or alleviate significant impacts.

Step 2: Determination of Environmental Impacts. The environmental impacts of the proposed Project and alternatives were identified in Section 3 and Section 5.2, respectively, including the potential impacts of solar facility and gen-tie transmission line construction and operation. A summary of the significant impacts that cannot be mitigated (Class I impacts) are described in Section 5.3.3.3. Highlighting these areas of significant impacts that the proposed Project cannot avoid identifies the impact of concern when considering whether there is an alternative that would be capable of reducing these effects to a less than significant level compared to the proposed Project, and whether an alternative would create new significant impacts. This simplifies identification of the environmentally superior alternatives while considering all issue areas equally.

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Step 3: Comparison of Proposed Project and Alternatives. The environmental impacts of the proposed Project were compared to those of each alternative to determine the environmentally superior alternative. The environmentally superior alternative was then compared to the No Project Alternative.

Determining an environmentally superior alternative requires balancing many environmental factors. In order to identify the environmentally superior alternative, the most important impacts in each issue area were identified and compared in Table 5-1. Although this EIR identifies an environmentally superior alternative, it is possible that the decision-makers could balance the importance of each impact area differently and reach different conclusions. In other words, the lead agency is not required to select the environmentally superior alternative others if that alternative is feasible, based on a list of statutory factors, and if it will avoid one or more significant effects on the environment compared to other alternatives.

5.3.3. Comparison of the Proposed Project and Alternatives

5.3.3.1. Ability to Meet Project Objectives

The Applicant's purpose for the Project is to generate, store, and transmit renewable energy to the statewide wholesale electricity grid. The Applicant's identified Project objectives are:

- 1. Support climate and clean energy goals of the Inflation Reduction Act of 2022 by helping to tackle the climate crisis and work towards achievement of President Biden's goal of a zero-carbon power sector by 2035 and zero-carbon economy by 2050 through development of clean electricity (power sector);
- 2. Assist the nation to meet its Nationally Determined Contribution commitments under Article 4 of the Paris Climate Agreement to achieve a 50 to 52 percent reduction in U.S. greenhouse gas pollution from 2005 levels by 2030, and to achieve 100 percent carbon pollution-free electricity by 2035 in the electricity sector;
- 3. Further the purpose of Secretarial Order 3285A1, establishing the development of environmentally responsible renewable energy as a priority for the Department of the Interior;
- 4. Deliver up to 400 MW of affordable, wholesale renewable energy to California ratepayers under long-term contracts with electricity service providers;
- 5. Assist with achieving California's renewable energy generation goals under the Clean Energy and Pollution Reduction Act of 2015 (Senate Bill 350) and the 100 Percent Clean Energy Act of 2018 (Senate Bill 100), as well as greenhouse gas (GHG) emissions reduction goals of the California Global Warming Solutions Act of 2006 (AB 32), as amended by Senate Bill 32 in 2016;

6. Enhance California's fossil-free resource adequacy capabilities and help to solve California's "duck curve" power production problem by installing up to 650 MW of 2-hour and/or 4-hour battery energy storage capacity;⁴⁴

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- 7. Minimize environmental impacts and land disturbance associated with <u>solar renewable</u> energy development by siting the facility on relatively flat, contiguous lands with high solar insolation, in close proximity to established utility corridors, existing transmission lines with available capacity to facilitate interconnection, and road access;
- 8. Conform with the Desert Renewable Energy Conservation Plan, including Conservation Management Actions;
- 9. Bring living-wage jobs to Riverside County;
- 10. Bring sales tax revenues to Riverside County by establishing a point of sale in the County for the procurement of most major Project services and equipment.
- 11. Make the highest and best use of primarily disturbed, retired agricultural land in and around a federal "Solar Energy Zone" and "Development Focus Area" to generate, store, and transmit affordable, wholesale solar electricity.
- 12. <u>Develop a commercially financeable renewable energy project.</u>

5.3.3.2. <u>Alternatives' Ability to Meet Project Objectives</u>

Alternative <u>A1</u>: No Project Alternative <u>A1 – No Build Alternative</u>. The No Project Alternative <u>A1</u> would fail to meet any of the Project's objectives and would not achieve any of the environmental benefits of increasing renewable energy generation consistent with federal goals and the State of California's Renewable Portfolio Standard (RPS) and <u>installation of energy storage to</u> helping to alleviate the "duck curve" problem.

Alternative A2: Uses Allowed by Right within Existing Land Designations. The No Project Alternative A2 would fail to meet any of the Project's objectives and would not achieve any of the environmental benefits of increasing renewable energy generation consistent with federal goals and the State of California's Renewable Portfolio Standard (RPS) and installation of energy storage to help alleviate the "duck curve" problem.

Alternative A3: No Project Alternative A3 - Other Renewable Energy Development within Existing Land Designations. The DFA designation allows wind and geothermal development on the land that would be developed by the proposed Project. The renewable power generation that could occur with this alternative is consistent with the project objectives relating to climate change and renewable energy, but the wind component could generate only about 12% of the electricity of the proposed Project due to the larger land areas required for this technology. In addition, the geothermal and wind technologies that could be permitted on DFA-designated lands would have numerous significant impacts, conflicting with the objective of minimizing environmental impacts.

Alternative <u>2B</u>: <u>Lake Tamarisk</u><u>Reduced Footprint</u> Alternative. The <u>Lake Tamarisk</u><u>Reduced Footprint</u> Alternative would meet <u>nearly all of</u> the proposed Project's objectives. This alternative would remove approximately <u>50</u> <u>30</u> acres of solar panels closest to the community of Lake Tamarisk. This alternative would also move the onsite substation and BESS farther from the community of Lake Tamarisk, and the 500 kV gen-tie line would be approximately 0.8 miles longer than the proposed 500 kV gen-tie line. The

⁴⁴ Battery duration may be up to 8 hours depending on technology and final design.

electrical output would not be appreciably<u>be</u> reduced <u>by up to 10 MW</u> compared to the proposed Project, and the impacts would be similar, therefore, it would meet <u>most of</u> the Project objectives.

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Alternative C: Further Reduced Project Footprint Alternative with Berms. This alternative would modify the proposed Project by establishing a minimum buffer zone setback of one mile from the resort border, installing earthen berms in two locations, and relocating the onsite substation and gen-tie line. Its electrical generation capacity would be reduced in comparison with the proposed Project, but most Project objectives would be met.

Specifically, Alternative C- with a 1-mile setback would meet the Project's objectives; however, it would achieve these objectives to a lesser extent compared with the proposed Project., including the loss of nearly $11\oplus 0$ MW (>25% of the capacity of the proposed Project).

Alternative C would assist Californians in meeting their renewable energy generation goals under Objective #4 and would further the purpose of Secretarial Order 3285A1 regarding responsible renewable energy under Objective #3, support the climate and clean energy goals of the Inflation Reduction Act of 2022 under Objective #1, and the United States' commitments under Article 4 of the Paris Climate Agreement (Objective #2) but all to a lesser extent that the Project. Alternative C would generate and store a significantly smaller amount of renewable energy compared with the proposed Project. Therefore, it would assist Californians to a lesser degree in meeting their renewable energy generation goals (Objective #5) and BLM with meeting its renewable energy objectives of the Desert Renewable Energy Conservation Plan (DRECP) Land Use Plan Amendment (LUPA) (Objective #8).

The BLM DRECP LUPA designated 6.5 million acres of land for conservation and identified 388,000 acres as DFA suitable for renewable energy development. One DRECP objective is to promote renewable energy and transmission development, consistent with federal renewable energy and transmission goals and policies, and in consideration of State renewable energy targets. With a smaller project, Easley's contribution towards meeting these goals and the speed of the United States achieving these goals would be reduced. Likewise, Alternative C would generate, store, and transmit affordable wholesale solar electricity on primarily disturbed, retired agricultural land in and around a federal DFA (Objective #11), however, with an approximately 25% reduction compared with the proposed Project. Alternative C would create fewer jobs and tax revenues compared with the proposed Project (Objectives #9 and #10). Similar to the proposed Project, Alternative C would meet Objective #7 to minimize environmental impacts and land disturbance, because the alternative would also be on flat contiguous land in close proximity to established utility corridors, existing transmission lines with available capacity, and road access.

Finally, although Alternative C would make the highest and best use of land under Objective #11, it would not capture the same economies of scale as the proposed Project nor help as much to solve California's "duck curve" power production problem (Objective #6), because it would generate, store, and transmit less wholesale solar electricity, and the electricity would be less affordable.

Alternative D: Offsite Alternative. Commenters suggested consideration of installing solar panels on BLMmanaged lands east of SR-177. This alternative would meet most Project objectives, but due to the substantially greater severity of impacts to biological resources and likely greater cultural resources impacts, it would not meet the objective of minimizing environmental impacts.

Alternative E: Distributed Commercial and Industrial Rooftop Solar Alternative. This alternative would involve the development of a large number of geographically distributed small to medium solar PV systems within existing developed areas throughout Riverside County. This alternative would meet most Project objectives, but it would not generate wholesale renewable energy to support California's ratepayers. Also, because this alternative would not include installation of 650 MW of battery storage that would be included with the proposed Project, it would not meet project objectives related to extending renewable energy availability into the evening hours.

5.3.3.3. Significant and Unavoidable Impacts

Section 3 of this EIR describes the potential environmental impacts of the proposed Project and recommends mitigation measures to reduce impacts, where feasible. Impacts in the following areas would be significant and unavoidable with construction and operation of the proposed Project, even with the incorporation of feasible mitigation measures that attempt to reduce impacts to the extent feasible.

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- Aesthetics:
 - Impact AES-31: The proposed Project could substantially degrade the existing visual character or quality of the site and its surroundings. The resulting visual change would be adverse and unavoidable even with implementation of mitigation, when viewed from all KOPs.
 - Impact AES-3: As with impacts discussed under Impact AES-1, the Project's high visual change would result in a significant aesthetics impact under significance criterion AES-3. Additionally, the O&M impacts would remain significant and unavoidable even with implementation of mitigation and DRECP CMA compliance.
- Agriculture and Forestry
 - Impact AG-1: The proposed Project would be constructed on 222 acres of land, 190 acres are a part
 of seven parcels, which are subject to a Williamson Act contract. Non-renewals for the seven parcels
 were submitted and processed in late 2022; however, the parcels are subject to Williamson Act
 restrictions for nine more years. There is no feasible way to modify the Project to avoid the conflict
 with the Williamson Act contracts. The contracts will need to be cancelled prior to, or concurrent
 with the EIR certification to avoid this impact.
 - Impact AG-3: The Williamson Act contract lands within the Project area are within a Riverside County Agricultural Preserve, which is incompatible with the proposed Project.

The Project would <u>also</u> result in a cumulatively considerable contribution to a significant cumulative impact under Aesthetics and <u>Cultural and Tribal Cultural Resources</u>.

5.3.3.4. Summary Impacts of Alternatives

Alternative <u>A1</u>: No Project Alternative <u>– No Build Alternative</u>. No substantially adverse and long-term impacts would occur to the environment as a result of the No Project Alternative <u>A1</u>. However, the No Project Alternative <u>A1</u> would not achieve any of the environmental benefits discussed in Section 5.3.<u>3.</u>1 (Ability to Meet Project Objectives).

<u>Alternative A2: No Project Alternative – Uses Allowed by Right within Existing Land Designations.</u> No substantially adverse and long-term impacts would occur to the environment as a result of the No Project Alternative A2. However, the No Project Alternative A2 would not achieve any of the environmental benefits discussed in Section 5.3.3.1 (Ability to Meet Project Objectives).

Alternative A3: No Project Alternative A3 – Other Renewable Energy Development within Existing Land Designations. The DFA designation of the BLM-administered land allows development of wind or geothermal generation, as well as solar. Wind generation would create severe aesthetic impacts from the presence of turbines and their night lighting. In addition, operation of wind turbines can create aviation conflicts, noise, and shadow flicker effects for nearby receptors. Geothermal generation is a major industrial operation, requiring drilling of wells for steam production and injection of geothermal fluids. It is visually significant in the desert setting, requires steam-driven turbines and cooling towers that emit noise and steam plumes, and requires steam and fluid pipelines running above ground across the site. **Alternative 2B:** Lake Tamarisk Alternative Reduced Footprint Alternative. Alternative 2–B would have similar types of impacts to the proposed Project, but would disturb a slightly smaller area within the Project application area and would move solar panel development and associated construction disturbances farther from the community of Lake Tamarisk. This alternative would not reduce any of the Project's significant and unavoidable impacts to a less-then-significant level or result in a change to overall impact classifications or significance conclusions. The Reduced Footprint Alternative would generate approximately up to 10 MW less of renewable energy than the proposed Project.

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Alternative C: Reduced Footprint Alternative with Berms. This alternative would modify the proposed Project by establishing a minimum buffer zone setback of one mile from the resort border, installing earthen berms in two locations, and relocating the onsite substation, BESS, O&M building, and gen-tie line. This alternative would eliminate the significant aesthetics impacts of the proposed Project from the resort residences, but it would increase the severity of public views from SR-177 (Rice Road) due to the substation/BESS location. In addition, constructing and maintaining the berms would be challenging given the anticipated level of erosion from wind and rainstorms, and the berms would redirect surface water flood flows in a manner that could create more severe erosion downstream.

Alternative D: Offsite Alternative. This alternative would require installing solar panels on BLM-managed lands east of SR-177. The location of this development would eliminate the significant visual impacts of the proposed Project and its visibility from the Lake Tamarisk Resort, and it would eliminate development within Williamson Act lands and the potentially significant impact related to agriculture. However, it would require development within the extremely sensitive habitats of the sand transport corridor, which supports special-status plant and wildlife species. In order to develop the full generation of the proposed Project, development of this alternative would likely require an amendment to the BLM DRECP Land Use Plan Amendment to modify the existing requirements preventing development within the sand transport corridor. Such an amendment would allow development, but would likely result in significant impacts to the species and habitats of the sand transport corridor. This alternative would also likely have more severe impacts to cultural resources due to its proximity to Palen Dry Lake, and it would result in severe dust and erosion due to disturbance of the sand transport corridor.

Alternative E: Distributed Commercial and Industrial Rooftop Solar Alternative. This alternative would involve the development of a large number of geographically distributed small to medium solar PV systems within existing developed areas throughout Riverside County. PV systems would be installed typically on the rooftops of commercial and industrial facilities. Because no new land would be developed or altered, this alternative would result in no habitat loss or grading, and aesthetics impacts would be minor in the context of existing development. Installation and maintenance would result in vehicle emissions and traffic increases similar to the proposed Project, but they would occur in a widely dispersed geographic area. Because this alternative would not include installation of 650 MW of battery storage that would be included with the proposed Project, it would not meet project objectives related to extending renewable energy availability into the evening hours.

5.3.3.5. Alternatives Comparison Summary

Table 5-1 compares the potential impacts of the proposed Project to the alternatives. <u>The comparison</u> focuses on the significant and unavoidable impacts of the proposed Project in the top rows of the table and then lists the Project's less than significant impacts as compared with the impacts of the alternatives.

Table 5-1. Comparison of Alternatives to the Proposed Project

Environmental Resource	Alternative A1: No Build Resources wi	Alternative A2: Uses Allowed by Right within Existing Land Designations th Significant and U	Alternative A3: Other Renewable Energy Development within Existing Land Designations	<u>Alternative B:</u> <u>Reduced</u> <u>Footprint</u> <u>Alternative</u> cific and/or Cum	Alternative C: Further Reduced Footprint Alternative with Berms	Alternative D: Offsite Alternative	Alternative E: <u>Distributed</u> <u>Commercial and</u> Industrial Rooftop Solar Alternative
<u>Aesthetics</u>	Resources with Significant and Unavoidable Project-Specific and/or Cumulative Impacts for the Proposed Project No Impact LTS S/U S/U LTS (LTDR) and LTS LTS Fewer Fewer Greater Fewer S/U (SR-177) Fewer Fewer Fewer Fewer Fewer Fewer Fewer Fewer				<u> </u>		
<u>Cultural and</u> <u>Tribal Cultural Resources</u>	<u>No Impact</u> <u>Fewer</u>	Not Cumulatively Considerable Fewer	<u>Cumulatively</u> <u>Considerable</u> <u>Similar</u>	<u>Cumulatively</u> <u>Considerable</u> <u>Similar</u>	<u>Cumulatively</u> <u>Considerable</u> <u>Similar</u>	<u>Cumulatively</u> <u>Considerable</u> <u>Similar</u>	Not Cumulatively Considerable <u>Fewer</u>
Resources with Less than Significant Impacts for the Proposed Project							
<u>Air Quality</u>	<u>Greater</u>	<u>Greater</u>	<u>Similar</u>	<u>Similar</u>	Fewer	<u>Similar</u>	<u>Similar</u>
Agriculture and Forestry	Fewer	Fewer	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer	<u>Fewer</u>
Biological Resources	<u>Fewer</u>	<u>Fewer</u>	<u>Greater</u>	<u>Similar</u>	<u>Fewer (buffer);</u> Greater (berms)	<u>s/u</u>	Fewer
<u>Energy</u>	<u>Greater</u>	<u>Greater</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>
<u>Geology, Soils, and Mineral</u> <u>Resources</u>	<u>Fewer</u>	<u>Fewer</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Greater</u>	<u>Fewer</u>
Greenhouse Gas Emissions	<u>Greater</u>	<u>Greater</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Greater</u>
<u>Hazards and Hazardous</u> <u>Materials</u>	<u>Fewer</u>	<u>Fewer</u>	<u>Greater</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Fewer</u>
Hydrology and Water Quality	Fewer	Fewer	<u>Greater</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer
Land Use and Planning	Fewer	Fewer	<u>Greater</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer
Noise and Vibration	Fewer	Fewer	<u>Greater</u>	Fewer	Fewer	Fewer	Fewer
Paleontological Resources	Fewer	<u>Fewer</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer	Fewer
Population and Housing	Fewer	<u>Fewer</u>	<u>Greater</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer
Public Services and Utilities	Fewer	<u>Fewer</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Fewer</u>

Environmental Resource	<u>Alternative A1:</u> <u>No Build</u>	Alternative A2: Uses Allowed by Right within Existing Land Designations	Alternative A3: Other Renewable Energy Development within Existing Land Designations	<u>Alternative B:</u> <u>Reduced</u> <u>Footprint</u> <u>Alternative</u>	Alternative C: Further Reduced Footprint Alternative with Berms	Alternative D: Offsite Alternative	Alternative E: Distributed Commercial and Industrial Rooftop Solar Alternative
Recreation	<u>Fewer</u>	<u>Fewer</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer
Traffic and Transportation	<u>Fewer</u>	Fewer	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer
<u>Wildfire</u>	<u>Fewer</u>	Fewer	<u>Similar</u>	<u>Similar</u>	<u>Similar</u>	Fewer	<u>Similar</u>
Potential to Meet Project Objectives							
Potential to Meet Most Project Objectives?	<u>NO</u>	<u>NO</u>	YES	<u>YES</u>	YES	<u>YES</u>	YES

* S/U = Significant and Unavoidable Impact. LTS = Less than Significant Impact

1 - "Fewer" indicates that the alternative would create reduced or fewer impacts that the Project would create. "Similar" indicates that impacts would be similar to those of the proposed Project. "Greater" indicates that the alternative would result in a greater level of impact than would the Project.

2 - Agricultural resources impacts related to parcels under Williamson Act contracts, and Aesthetic operational impacts and cumulative impacts would be significant and unavoidable for all alternatives, except the No Project-Build Alternative (A1), Offsite Alternative, and Distributed Commercial and Industrial Rooftop Solar Alternative. Cultural Resources/Tribal Cultural Resources cumulative impacts would be significant and unavoidable for all alternatives, except the No Build Alternative (A1) and Distributed Commercial and Industrial Rooftop Solar Alternative.

Environmental Resource	Alternative 1: No Project	Alternative 2: Lake Tamarisk Alternative	
Aesthetics	Fewer	Fewer	
Agriculture and Forestry	Fewer	Similar	
Air Quality	Greater	Similar	
Biological Resources	Fewer	Similar	
Cultural and Tribal Cultural Resources	Fewer	Similar	
Energy	Greater	Similar	
Geology, Soils, and Mineral Resources	Fewer	Similar	
Greenhouse Gas Emissions	Greater	Similar	
Hazards and Hazardous Materials	Fewer	Similar	
Hydrology and Water Quality	Fewer	Similar	
Land Use and Planning	Fewer	Similar	
Noise and Vibration	Fewer	Fewer	
Paleontological Resources	Fewer	Similar	
Population and Housing	Fewer	Similar	
Public Services and Utilities	Fewer	Similar	
Recreation	Fewer	Similar	
Traffic and Transportation	Fewer	Similar	
Wildfire	Fewer	Similar	
Potential to Meet Most Project Objectives?	NO	YES	

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5.3.4. Comparison of the Proposed Project and No Project Alternative

The<u>re are three</u> No Project Alternative <u>scenarios considered.</u> (Alternative <u>A1</u>) (the No Build Alternative) and Alternative A2 (Uses Allowed by Right within Existing Land Designations) would avoid impacts from the construction, operation, maintenance, and decommissioning of the proposed Project. This alternative would result in no impacts to aesthetics, agriculture, biological resources, cultural resources, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, noise, paleon-tological resources, population and housing, energy usage and under public services and utilities, recreation, and traffic and transportation, but would not realize the beneficial impacts of the Project relating to long-term to air quality and greenhouse gas emissions with the use of renewable energy generation. Additionally, site remediation of existing contamination would not occur under the No Project Alternative. The No Project Alternative does not have the potential to meet any of the Project objectives.

<u>Alternative A3 (Other Renewable Energy Development within Existing Land Designations) would have</u> solar, wind and/or geothermal development on the DFA lands, resulting in more significant impacts than the proposed Project.

5.3.5. Environmentally Superior Alternative

Section 15126.6 of the State CEQA Guidelines requires an EIR identify an "environmentally superior" alternative. If the "no project" alternative is the environmentally superior alternative, then the EIR must identify which of the other alternatives is environmentally superior.

Table 5-1 summarizes the comparison of impacts between the alternatives to <u>and</u> the proposed Project to help determine the Environmentally Superior Alternative. As presented in the comparative analysis above, the Environmentally Superior Alternative for the proposed Projectevaluated in this EIR would be

the No Project Alternative A1 (No Build Alternative). No substantially adverse and long-term impacts would occur to the environment under the No Project Alternative. The No Project Alternative would also avoid the impacts of the Project, as analyzed in Section 3. <u>However, it would not meet any Project objectives</u>. It is possible that if the proposed Project were not approved, another solar project would be constructed, which would have impacts similar to the Project.

<u>The Further Reduced Footprint Alternative with Berms would achieve most of the Project objectives and</u> <u>would be feasible to construct.</u> In accordance with section 15126.6 of the State CEQA Guidelines, the Lake <u>TamariskAlternative C, the Further Reduced Footprint</u> Alternative <u>with Berms</u>, would be the Environmentally Superior Alternative since it would result in fewer impacts to <u>a</u>Aesthetics, <u>fewer construction-related</u> <u>disturbance such as nand Noise and Vibration</u>, and less ground disturbance than the proposed Project and would reduce the visual impacts of the Project on the Lake Tamarisk Desert Resort, although the visual impacts would remain significant and unavoidable and the impacts to viewers from SR-177 would be more <u>severe</u>.

While Alternative C is Environmentally Superior, it would result in a reduction of 80 to 110 MW of renewable energy compared to the proposed Project, which reduces its compliance with the most important project objectives (meeting State and federal renewable energy goals to counter climate change). Therefore, because Alternative B, the Reduced Footprint Alternative meets these critical project objectives and reduces impacts to the Lake Tamarisk community compared to the proposed Project, it is considered to be the next most Environmentally Superior Alternative and preferred overall.

The Lake Tamarisk Alternative would have a slightly reduced level of ground disturbance and would be a greater distance from the residences in Lake Tamarisk, which would reduce construction-related disturbances such as noise.

The Lake Tamarisk Alternative, like the proposed Project, would meet all of the Project objectives, would be feasible, would generate the same amount of renewable energy and would have the same energy storage capacity. Because the Lake Tamarisk Alternative would achieve the Project objectives and would have fewer impacts when compared to the proposed Project, the Lake Tamarisk Alternative is considered environmentally preferred.

6. LIST OF PREPARERS AND ORGANIZATIONS CONSULTED

An EIR is an interdisciplinary team effort. In addition, internal review of the document occurs throughout preparation at multiple levels. The County of Riverside was the CEQA Lead Agency. Aspen Environmental Group provided technical assistance in the preparation of this document. The preparers and technical reviewers of this document are presented below, along with a list of organizations consulted.

Name	Position	Primary Responsibility	
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Darren Edgington	Environmental Project Manager		
Aspen Environmental	Group		
Susan Lee	Principal-in-Charge	Quality Assurance/Quality Control	
Hedy Koczwara	Project Manager	Quality Assurance/Quality Control	
Brewster Birdsall, P.E.	Senior Associate	Air Quality; Greenhouse Gas Emissions; Energy; Noise and Vibration	
Fritts Golden	Senior Associate	Land Use and Planning; Recreation; Traffic and Transportation; Policy Consistency	
Hedy Koczwara	Senior Associate	Agriculture and Forestry Resources	
Aurie Patterson, P.G.	Associate	Geology, Soils and Mineral Resources; Hazards and Hazardous Materials/Public Health and Safety; Paleontological Resources	
Erin Jones	Biologist	Biological Resources	
Stephanie Tang	Associate	Wildfire	
Grace Weeks	Associate	Energy; Population and Housing; Public Services and Utilities; Project Description; Alternatives	
Phil Lowe, P.E.	Senior Associate	Hydrology and Water Quality/ Water Resources (surface water)	
Jon Davidson	Principal Associate	Technical Review and Editing	
Christopher Notto	GIS Specialist	Graphics	
Kati Simpson	Senior Graphic Designer	Graphics	
Sharon Heesh	Associate	Document Production	
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Michael Clayton	Visual Resources Specialist	Aesthetics	
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Matt Tennyson	Principal	Cultural and Tribal Cultural Resources	
Colin Recksieck	Senior Archaeologist	Cultural and Tribal Cultural Resources	
GSI Water Solutions, Ir	ic.		
Tim Thompson	Principal	Hydrology and Water Quality/Water Resources (groundwater)	
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Table 6-1. List of Preparers and Reviewers

The following is a list of agencies consulted during preparation of the EIR:

• U.S. Bureau of Land Management, Palm Springs–South Coast Field Office

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- U.S. Fish and Wildlife Service
- California Department of Fish and Wildlife
- <u>U.S. Department of Defense</u>

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Appendix L

MITIGATION MONITORING AND REPORTING PROGRAM

L.1 MITIGATION MONITORING AND REPORTING TABLE

Aesthetics		
APPLICANT- PROPOSED MEASURE	VIS-1: Weathering Coating of Security Fencing. To reduce operational visual impacts of the Project to the community of Lake Tamarisk, the Project owner will apply a weathering coating (Natina or substantially similar) to the Project security fencing located closest to the community. The coating would reduce reflectance, which would be visually distracting, and the earth-tone color of the coating would reduce the industrial character of the fencing and help it to blend more effectively with the surrounding landscape. The total length of fencing that will be coated is approximately one mile and may be contiguous or in separate sections, depending on the final Project design and the location(s) of most visible security fencing.	
Responsible Party:		Project Owner
Responsible Monito	ring Party:	Riverside County and BLM
Monitoring Phase/T	iming:	During Construction
Verification Approva	al Party:	Riverside County and BLM
MITIGATION MEASURE	 MM AES-1: Surface Treatment of Project Structures and Buildings. The Project owner shall treat the surfaces of all non-temporary, large Project structures and buildings (e.g., O&M building, substation components, inverters, electrical enclosures, gen-tie poles and conductors) visible to the public such that: (a) their colors minimize visual intrusion and contrast by blending with (matching) the existing characteristic landscape colors; (b) their colors and finishes do not create excessive glare from surface brightness; and (c) their colors and finishes are consistent with local policies and ordinances. The transmission line conductors shall be non-specular and non-reflective, and the insulators shall be non-reflective and non-refractive. Following a consultation with Riverside County and BLM visual resources specialists, and other representatives as deemed necessary, the Project owner shall submit for the County's and BLM's review, a specific Surface Treatment Plan that will satisfy these requirements. The consultation shall be in-field at the agencies' election, or as a desktop 	
	(a) A de the scar	preferred by the agencies. The treatment plan shall include: escription of the overall rationale for the proposed surface treatment, including selection of the proposed color(s) and finishes based on the characteristic land- be. Colors shall be field tested using the actual distances from the KOPs to the posed structures, using the proposed colors painted on representative surfaces;
	or p mus	t of each major Project structure and building, the transmission line towers and/ poles, and fencing, specifying the color(s) and finish proposed for each. Colors at be identified by vendor, name, and pantone number, or according to a univer- designation system;
		set of color brochures or color chips showing each proposed color and finish;
	(d) A sp	pecific schedule for completion of the treatment; and
	Proj stru ings app	rocedure to ensure proper treatment maintenance for the life of the Project. The sect owner shall not specify to the vendors the treatment of any buildings or ctures treated during manufacture or perform the final treatment on any build- or structures treated in the field until the Project owner receives notification of roval of the treatment plan by Riverside County and the BLM. Subsequent modi- tions to the treatment plan are prohibited without the County's and BLM's

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Aesthetics	
	approval for components under their respective authorities; however, the Project owner may consider the agencies' failure to respond to a request for review within 60 days an acceptance of the proposal.
Responsible Party:	Project Owner
Responsible Monit	toring Party: Riverside County and BLM
Monitoring Phase/	Timing: Prior to Construction
Verification Appro	val Party: Riverside County and BLM
MITIGATION MEASURE	MM AES-2: Project Design. The Project owner shall use proper design fundamentals to reduce the visual contrast to the characteristic landscape. These include proper siting and location; reduction of visibility; repetition of form, line, color, and texture of the landscape; and reduction of unnecessary disturbance. Design strategies to address these fundamentals shall be based on the following factors:
	(a) Vegetation Manipulation: Retain as much of the existing vegetation as possible including along roadsides to intercept sightlines from public vantage points. Use existing vegetation to screen the development from public viewing and lessen the visibility of structural contrast and glare. Use scalloped, irregular, cleared edges to reduce line contrast. Use irregular clearing shapes to reduce form contrast. Feather and thin the edges of cleared areas and retain a representative mix of plant species and sizes.
	(b) Structures: Minimize the number of structures and combine different activities in one structure. Use natural, self-weathering materials and chemical treatments on surfaces to reduce color contrast and the potential for reflectance (glare). Bury all or part of structures to the extent practical. Use natural-appearing forms to comple- ment the characteristic landscape. Screen the structure from view by using natural landforms and vegetation. Reduce the line contrast created by straight edges.
	(c) <i>Linear Alignments</i> : Use existing topography to hide induced changes associated with roads, lines, and other linear features. Select alignments that follow landscape contours. Avoid fall-line cuts. Hug vegetation lines.
	(d) Reclamation and Restoration: Reduce the amount of disturbed area and blend the disturbed areas into the characteristic landscape. Where feasible, replace soil, brush, rocks, and natural debris over disturbed area. Newly introduced plant species should be of a form, color, and texture that blends with the landscape.
Responsible Party:	Project Owner
Responsible Monit	toring Party: Riverside County and BLM
Monitoring Phase/	Timing: Prior to and During Construction
Verification Appro	val Party: Riverside County and BLM
MITIGATION MEASURE	MM AES-3: Night Lighting Management. To the extent feasible, consistent with safety and security considerations, the Project owner shall design and install all permanent

TIGATIONMM AES-3: Night Lighting Management. To the extent feasible, consistent with safety
and security considerations, the Project owner shall design and install all permanent
exterior lighting and all temporary construction lighting such that: (a) lamps and reflec-
tors are not visible from beyond the Project site, including any off-site security buffer
areas; (b) lighting does not cause excessive reflected glare; (c) direct lighting does not
illuminate the nighttime sky, except for required FAA aircraft safety lighting; (d) illumina-
tion of the Project and its immediate area is minimized; and (e) it complies with local
policies and ordinances.

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Aesthetics

The Project owner shall also consult with the NPS Night Sky Program Manager in the development of the night lighting and comply with stricter standards for light intensity. All permanent light sources shall be below 3,500 Kelvin color temperature (warm white) and shall have cutoff angles not to exceed 45 degrees of nadir. The use of LED lighting with a Correlated Color Temperature (CCT) above 2,700 would introduce blue light into the environment that would have negative impacts on the night skies, wildlife, and visitors, and increase light pollution in that area. If LED light bulbs are used, they shall have a CCT of 2,700 or less. All lights, temporary and permanent, are to be fully shielded such that the emission of light above the horizontal is prevented. Prior to construction, the Project owner shall submit to BLM, Riverside County, and NPS JTNP for review a Night Lighting Management Plan that shall include the following:

- (a) Location and direction of light fixtures that take the lighting mitigation requirements into account;
- (b) Lighting that incorporates fixture hoods/shielding, with light directed downward or toward the area to be illuminated;
- (c) Light fixtures, which are visible from beyond the Project boundary, that have cutoff angles that are sufficient to prevent lamps and reflectors from being visible beyond the Project boundary, except where necessary for security;
- (d) All lighting that is of minimum necessary brightness consistent with operational safety and security;
- (e) Lights in high illumination areas not occupied on a continuous basis (such as maintenance platforms) that have (in addition to hoods) switches, timer switches, or motion detectors so that the lights operate only when the area is occupied;
- (f) Specification that LPS or amber LED lighting shall be emphasized, and that white lighting (metal halide) would: (a) only be used when necessitated by specific work tasks; (b) not be used for dusk-to-dawn lighting; and (c) would be less than 3500 Kelvin color temperature;
- (g) Specifications and mapping for of all lamp locations, orientations, and intensities, including security, roadway, and task lighting;
- (h) Specifications for each light fixture and each light shield;
- (i) Total estimated outdoor lighting footprint expressed as lumens or lumens per acre;
- (j) Specifications on the use of portable truck-mounted lighting;
- (k) Specifications for motion sensors and other controls to be used, especially for security lighting;
- Surface treatment specifications that shall be employed to minimize glare and skyglow;
- (m) Documentation that the necessary coordination with the NPS Night Sky Program Manager has occurred; and
- (n) Exterior lighting that complies with current Title 24 regulations from the State of California and that shall be coordinated with the California Department of Transportation (Caltrans) to comply with exterior lighting regulations along I-10 and SR-177.

Responsible Party:	Project Owner
Responsible Monitoring Party:	Riverside County, BLM, and NPS JTNP (review party)
Monitoring Phase/Timing:	Prior to Construction
Verification Approval Party:	Riverside County and BLM

Air Quality

MITIGATION MEASURE

MM AQ-1: Fugitive Dust Control Plan. The Project owner, its contractor, or its subcontractor shall prepare and implement a Fugitive Dust Control Plan to address fugitive dust emissions during Project construction, operation, maintenance, and decommissioning. The plan shall include measures to minimize fugitive dust emissions from the commencement of construction activities through operations, maintenance, and decommissioning. In the case where the contractor obtains permit coverage under SCAQMD Rule 403, that permit and associated plan will be incorporated into the final Fugitive Dust Control Plan prepared by the Project owner. During construction, the Project owner, its contractor, and subcontractors shall take every reasonable precaution to prevent all airborne fugitive dust plumes from leaving the Project site, to prevent visible particulate matter from being deposited upon public roadways, and shall adhere to the SCAQMD rules. The plan shall be subject to review and approval by the SCAQMD (Rule 403).

The following measures shall be included within the plan:

- Prior to commencing construction, the Project owner, its contractor, or its subcontractor shall designate and retain for the duration of construction a Dust Control Supervisor. The Dust Control Supervisor shall have successfully completed the SCAQMD Rule 403 dust control compliance training class. The Dust Control Supervisor shall have full access to all areas of construction on the Project site, gen-tie line, and other linear facilities and shall have the authority to stop any or all construction activities as warranted by applicable construction mitigation conditions.
- During construction, all unpaved roads, disturbed areas (e.g., areas of scraping, excavation, backfilling, grading, and compacting), and loose materials generated during construction activities shall be stabilized with a non-toxic soil stabilizer or soil weighting agent or watered two times daily or as frequently as necessary to minimize fugitive dust generation. Non-water-based soil stabilizers shall be as efficient as or more efficient for fugitive dust control than ARB-approved soil stabilizers and shall not increase any other environmental impacts, including loss of vegetation, adverse odors, or emissions of ozone precursor reactive organic gases (ROG) or volatile organic compounds (VOC). The proposed soil stabilizing products shall be listed in the Plan and are subject to review and approval by Riverside County, BLM, and CDFW. Any soil stabilizers proposed shall be consistent with those recommended in the Stormwater Pollution Prevention Plan (SWPPP) and shall also be approved for use by the project's Restoration Specialist to ensure that the products would not impede restoration goals.
- The main access roads through the site shall be either paved or stabilized using soil binders, or equivalent methods, to provide a stabilized surface that is similar for the purposes of dust control to paving, that may or may not include a crushed rock (gravel or similar material with fines removed) top layer, prior to commencing construction. Delivery, laydown, and staging areas for construction or operations and maintenance supplies shall be paved or stabilized prior to taking initial deliveries.
- Grading and earthwork activities, including vegetation removal, cut and fill movement, and soil compacting, shall be phased across the site to minimize the amount of exposed or disturbed area on any single day.
- No vehicle shall exceed 15 miles per hour on unpaved areas within the site, with the exception that vehicles may travel up to 25 miles per hour on stabilized unpaved roads as long as such speeds do not create visible dust emissions or conflict with other permit conditions.
- Visible speed limit signs shall be posted at the construction site entrances.

Air Quality			
		struction equipment vehicle tires shall be inspected and washed as necessary to ned free of dirt prior to entering paved roadways.	
	track-o more in out fro	aved exits from the construction site shall be graveled or treated to prevent ut onto public roadways. No person shall allow track-out to extend 25 feet or n cumulative length from the point of origin from an active operation. All track m an active operation shall be removed immediately if it extends over 25 feet der 25 feet, at the end of each workday.	
	during	ed roads within the construction site shall be swept daily or as needed (less periods of precipitation) on days when construction activity occurs to prevent sumulation of dirt and debris.	
	At least the first 500 feet of any paved public roadway exiting the construction site or exiting other unpaved roads to access the construction site or staging areas shall be swept as needed when dirt or runoff resulting from the construction activities is visible on the paved public roadway.		
	measur wind sp shall in not mo wind e unless	tent with SCAQMD Rule 403(g)(2), regarding exemptions, contingency control res may be implemented during "high wind" conditions, when instantaneous beeds exceed 25 miles per hour. The contingency measures for high wind events clude: Cease all active operations; Stop all vehicular traffic; Apply water to soil ire than 15 minutes prior to moving such soil; Apply chemical stabilizers prior to vent; and/or Apply water to all unstabilized disturbed areas 3 times per day, there is evidence of wind driven fugitive dust, then increase watering frequency nimum of four times per day.	
Responsible Party:		Project Owner	
Responsible Monitor	ring Party:	SCAQMD	
Monitoring Phase/Ti	ming:	Prior to and during construction	
Verification Approva	l Party:	SCAQMD	
MITIGATION MEASURE	 entering if for on-site ment or v procurem All constants Statew shall m Engines All dies tags sh All equ perly m All dies Vehicle 	2: Control On-Site Off-Road Equipment Emissions. The Project owner, when into construction contracts or when procuring off-road equipment or vehicles e construction or O&M activities, shall ensure that only new model year equip- rehicles are obtained. The following measures shall be included with contract or nent specifications: struction diesel engines not registered under California Air Resources Board's ide Portable Equipment Registration Program, with a rating of 50 hp or higher eet the Tier 4 California Emission Standards for Off-Road Compression-Ignition s, as specified in California Code of Regulations, Title 13, section 2423(b)(1). el-fueled engines used in the construction of the facility shall have clearly visible owing that the engine meets the standards of this measure. ipment and trucks used in the construction or O&M of the facility shall be pro- naintained and the engines tuned to the engine manufacturer's specifications. sel heavy construction equipment shall not idle for more than five minutes.	
Posnoncible Portu	are exe	empted from this requirement.	
Responsible Party:		Project Owner	

Responsible Party:	Project Owner
Responsible Monitoring Party:	Riverside County and BLM
Monitoring Phase/Timing:	Prior to and during construction; during operations

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Air Quality	
Verification Approv	val Party: Riverside County and BLM
Biological Resource	25
MITIGATION MEASURE	MM BIO-1: Biological Monitoring . Monitoring to ensure conformance with conditions or approval, including effective protection and avoidance of biological resources, shall be implemented by the Applicant as follows:
	Biological Monitoring Team. During construction and decommissioning, the Applicant shall employ a biological monitoring team to oversee Project activities. Any activity that may impact vegetation, wildlife, and sensitive resources shall be monitored to ensure compliance with all mitigation measures for biological resources.
	The biological monitoring team shall consist of:
	Lead Biologist: The Applicant shall assign a Lead Biologist, approved by Riverside County BLM, CDFW, and USFWS as the primary point of contact for the BLM and resource agencies regarding biological resources mitigation and compliance. The Lead Biologist shall have an approved MOU with Riverside County prior to commencing work on the Project.
	Biological Monitor: Biological monitors shall be overseen by the Lead Biologist and shal perform any required surveys, ground disturbance and construction monitoring, wild life monitoring, inspections, marking sensitive resource buffers, and revegetation monitoring during Project activities. Biological monitors shall include trained deservent tortoise monitors (MM BIO-7) and nest monitors (MM BIO-8).
	 Authorized Desert Tortoise Biologist: For desert tortoise protection measures (MM BIO-7), the Applicant shall nominate a qualified individual to serve as Authorized Desert Tortoise Biologist, for approval by the USFWS and CDFW.
	The Applicant shall provide the resumes of the proposed Biological Monitoring Team to the BLM and Riverside County for approval prior to onset of ground-disturbing activities The Biological Monitoring Team shall have demonstrated expertise with the biologica resources within the Project region. The Biological Monitoring Team shall have authority to halt any activities in any area if it is determined that the activity, if continued, would cause an unauthorized adverse impact to biological resources.
	The duties of the Biological Monitoring Team shall vary during the construction, O&M and decommissioning phases, based on the biological monitoring tasks needed for compliance during each phase. During O&M, an Applicant staff member serving as a compliance manager may perform the duties of the Lead Biologist to ensure compliance with biological mitigation measures, such as performing inspections for entrapped wildlife and fence condition, reporting dead or injured wildlife, avoiding nesting birds, and inspections of panel washing. The Applicant's compliance manager, if serving as Lead Biologist during O&M, shall have an approved MOU with Riverside County prior to commencing Lead Biologist duties on the Project.
	In general, the duties of the Lead Biologist shall include, but shall not be limited to:
	Regular, direct communication with representatives of the BLM, and other agencies as appropriate. The Lead Biologist, or during O&M, the Applicant's compliance mana ger, shall immediately notify the BLM and applicable resource agencies in writing or dead or injured special-status species, or of any non-compliance with biological mitiga- tion measures or permit conditions.
	 Train and supervise Biological Monitors, including desert tortoise monitors, nest monitors, and construction monitors.

Biological	Resources
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- Conduct or oversee Worker Environmental Awareness Program (WEAP) training (MM BIO-2).
- During construction and decommissioning, clearly mark and inspect sensitive biological resource areas in compliance with regulatory terms and conditions.
- Oversee wildlife clearance surveys, ground disturbance and grading, and biological monitoring. Ensure that all biological monitoring is completed properly and on schedule.
- Conduct or oversee bi-weekly compliance inspections during ground-disturbing activities and communicate any remedial actions needed (i.e., trash, fence, weed maintenance; wildlife mortality) to maintain compliance with mitigation measures.

Reporting. The Lead Biologist, or during O&M, the Applicant's compliance manager, shall report regularly to the BLM and Riverside County to document the status of compliance with biological mitigation measures.

During construction and decommissioning:

- Provide weekly verbal or written updates to the BLM with any information pertinent to the BLM and Riverside County, to resource agencies, or to state or federal permits for biological resources.
- Prepare and submit monthly and annual compliance reports to include a summary of Project activities that occurred, biological resources surveys and monitoring that were performed, any sensitive or noteworthy species observed, weed infestations removed, and non-compliance issues and remedial actions that were implemented.

During O&M:

Conduct quarterly compliance inspections and reporting, to be submitted to the BLM and Riverside County, to document the condition of exclusion fencing, wildlife mortality, and any biological resource issues of note.

Responsible Party:		Project Owner	
Responsible Monitoring Party:		Riverside County and BLM	
Monitoring Phase/Ti	iming:	Prior to and during construction	
Verification Approva	al Party:	Riverside County and BLM	
MITIGATION MEASURE	and imple be respor beginning struction, Spanish. 1	2: Worker Environmental Awareness Training. The Lead Biologist shall prepare ment a Worker Environmental Awareness Program (WEAP). The Applicant shall asible for ensuring that all workers at the site receive WEAP training prior to g work on the Project and receive annual refresher trainings throughout con- operations, and decommissioning. The WEAP shall be available in English and The Applicant shall submit the WEAP to the lead agency and resource agencies val prior to implementation. The WEAP will:	
	training	eloped by or in consultation with the Lead Biologist and consist of an on-site or g center presentation with supporting written material and electronic media, ng photographs of protected species, available to all participants.	
		e an explanation of the function of flagging that designates authorized work specify the prohibition of soil disturbance or vehicle travel outside designated	
		general safety protocols such as vehicle speed limits, hazardous substance spill tion and containment measures, and fire prevention and protection measures.	

- Review mitigation and biological permit requirements.
- Explain the sensitivity of the vegetation and habitat within and adjacent to work areas, and proper identification of these resources.
- Discuss the federal and state Endangered Species Acts, Bald and Golden Eagle Protection Act, and the Migratory Bird Treaty Act and the consequences of non-compliance with these acts.
- Discuss the locations and types of sensitive biological resources on the Project site and adjacent areas and explain the reasons for protecting these resources.
- Inform participants that no snakes, other reptiles, birds, bats, or any other wildlife shall be harmed or harassed.
- Place special emphasis on species that may occur on the Project site and/or gen-tie lines, including special-status plants, Crotch bumble bee, desert tortoise, burrowing owl, golden eagle, nesting birds, desert kit fox, American badger, and burro deer.
- Specify guidelines for avoiding rattlesnakes and reporting rattlesnake observations to ensure worker safety and avoid killing or injuring rattlesnakes. Rattlesnakes should be safely removed from the work area using appropriate snake handling equipment, including a secure storage container for transport, or by calling local animal control.
- Describe workers' responsibilities for avoiding the introduction of invasive weeds onto the Project site and surrounding areas, describe the Integrated Weed Management Plan.
- Provide contact information for the Lead Biologist and instructions for notification of any vehicle-wildlife collisions or dead or injured wildlife species encountered during Project-related activities.
- Include a training acknowledgment form to be signed by each worker indicating that they received training and shall abide by the guidelines.
- Desert Tortoise Education Requirements: Prior to the start of construction activities, a desert tortoise education program shall be presented by the Lead Biologist to all personnel who will be present on Project work areas. Following the start of construction, any new employee shall be required to complete the tortoise education program prior to working on site. At a minimum, the tortoise education program shall cover the following topics:
 - (a) A detailed description of the desert tortoise, including color photographs;
 - (b) The distribution and general behavior of the desert tortoise;
 - (c) Sensitivity of the species to human activities;
 - (d) The protection the desert tortoise receives under the state and federal Endangered Species Acts, including prohibitions and penalties incurred for violation;
 - (e) The protective measures being implemented to conserve the desert tortoise during construction activities;

Responsible Party:	Project Owner
	Toject Owner
Responsible Monitoring Party:	Riverside County
Monitoring Phase/Timing:	Prior to beginning work on the project and throughout construction and operations
Verification Approval Party:	Riverside County and BLM

(f) Procedures and a point of contact if a desert tortoise is observed on site.

MITIGATION MEASURE MEASURE MM BIO-3: Minimization of Vegetation and Habitat Impacts. Prior to ground-disturbing activities during construction, O&M, or decommissioning, authorized work areas shall be clearly delineated and sensitive resources that require avoidance would be flagged by the Lead Biologist. These areas shall include, but not be limited to, staging areas, access roads, and sites for temporary placement of construction materials and spoils. Delineation may be implemented with common orange vinyl "fencing" or staking to clearly identify the limits of work and will be verified by the Lead Biologist. No paint or permanent discoloring agents shall be applied to rocks or vegetation (to indicate surveyor

nent discoloring agents shall be applied to rocks or vegetation (to indicate surveyor construction activity limits or for any other purpose). Fencing/staking shall remain in place for the duration of construction. Spoils shall be stockpiled in disturbed areas. All disturbances, vehicles, and equipment shall be confined to the fenced/flagged areas. Construction activities shall minimize soil and vegetation disturbance and onsite con-

construction activities shall minimize soil and vegetation disturbance and onsite construction/vehicle trips to minimize impacts to soil and root systems. Erosion control shall be implemented as described in the Drainage Erosion and Sedimentation Control Plan (DESCP) (MM HWQ-1), which requires identification of erosion treatments for exposed soil, such as chemical-based dust pallatives, soil bonding, and weighting agents suitable for use around vegetation. Additional BMPs, as committed to by the Applicant and incorporated into the Project Description, are described in Section 2.7 and include designation of primary travel routes, limiting grading to specific areas, building racking material in laydown areas to minimize use of roads, using equipment with smaller rubber-wheeled vehicles, maintaining hydrologic flow patterns, and preserving propagule islands to support vegetation recovery.

Upon completion of construction activities in any given area, all unused materials, equipment, staking and flagging, and refuse shall be removed and properly disposed of, including wrapping material, cables, cords, wire, boxes, rope, broken equipment parts, twine, strapping, buckets, and metal or plastic containers. Any unused or leftover hazardous products shall be properly disposed of off-site in accordance with applicable legal requirements.

Hazardous materials shall be handled in accordance with applicable legal requirements, and spills or leaks shall be promptly corrected and cleaned up according to applicable legal requirements. Vehicles shall be properly maintained to prevent spills or leaks. Hazardous materials, including motor oil, fuel, antifreeze, hydraulic fluid, grease, shall not be allowed to enter drainage channels.

Low-Impact Site Preparation and O&M. Native vegetation shall be allowed to recover from rootstocks and seed bank wherever facilities do not require permanent vegetation removal (e.g., access roads, foundations, paved areas, or fire clearance requirements) within the perimeter fenceline of the solar facilities and under solar arrays. Project BMPs (Section 2.7.2) to minimize impacts during site preparation require that primary travel routes be designated through panel arrays to minimize disturbance between rows; that grading be limited to specific areas, including roads, substation, O&M facilities, laydown areas, some equipment pads, and in discrete areas within the arrays; and that small rubber-wheeled equipment be used.

During O&M, vegetation height and density shall be managed as needed for fire safety and operation of the solar panels. Onsite vegetation that re-establishes under the solar panels will be periodically trimmed to a height no more than 12 inches, to avoid interference with the panels. Vegetation may require trimming approximately once every three years, as needed. Revegetation of native habitat and protection of erosive

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soils shall be implemented in temporary impact areas, as described in MM BIO-4 and MM BIO-5.

Compensation for impacts to Desert Pavement. Compensatory mitigation for impacts to desert pavement shall be identified prior to disturbance of the features at a minimum 1:1 ratio, in coordination with BLM and CDFW.

Responsible Party:		Project Owner
Responsible Monitoring Party:		Riverside County
Monitoring Phase/Timing:		Prior to ground disturbance and during construction
Verification Approva	l Party:	Riverside County
MITIGATION MEASURE	ment an	4: Integrated Weed Management Plan . The Applicant shall prepare and imple- Integrated Weed Management Plan (IWMP) to minimize or prevent invasive m infesting the site or spreading into surrounding habitat.
The IWMP must comply with existing relevant BLM plans and permits includi Vegetation Treatments Using Herbicides (BLM, 2007) and Vegetation Treatmen Aminopyralid, Fluroxypyr, and Rimsulfuron (BLM, 2016b), and must be approved and Riverside County (or its designated representative). Use of any pesticides conform with licensing and application requirements from the California Departr Pesticide Regulation. Prior to herbicide use on BLM-administered lands, the BLM requires that a Pestici Proposal (PUP) (BLM, 2019) be submitted to ensure that Projects follow herbici policies. If herbicides or pesticides will be used on BLM lands, the Applicant shall a Pesticide Use Proposal (PUP) form, to be approved by the BLM (also see Section on hazardous materials). The PUP details which herbicides, pesticides, and asse adjuvants will be used for treatment, location of applications, responsible parties line for treatment, application methods, application rates and maximum annual an target species, and precautions for humans, sensitive resources, and non-target tion. Only a State of California and federally certified contractor will be permi perform herbicide applications. Only herbicides and adjuvants approved by the S California and BLM for use on public lands will be used within or adjacent to the		n Treatments Using Herbicides (BLM, 2007) and Vegetation Treatment Using alid, Fluroxypyr, and Rimsulfuron (BLM, 2016b), and must be approved by BLM side County (or its designated representative). Use of any pesticides would with licensing and application requirements from the California Department of
		(PUP) (BLM, 2019) be submitted to ensure that Projects follow herbicide use f herbicides or pesticides will be used on BLM lands, the Applicant shall submit e Use Proposal (PUP) form, to be approved by the BLM (also see Section 3.10.5 lous materials). The PUP details which herbicides, pesticides, and associated will be used for treatment, location of applications, responsible parties, time- eatment, application methods, application rates and maximum annual amounts, ecies, and precautions for humans, sensitive resources, and non-target vegeta- a State of California and federally certified contractor will be permitted to perbicide applications. Only herbicides and adjuvants approved by the State of
	the requir The IWMI disturbed adjacent u annual qu Plan (MM performed Assessme	cant shall submit the BLM approved PUP to Riverside County and implement rements of the PUP on private lands. P shall require that cover and density of non-native plants within temporarily areas will be no more than 25% of total cover, or no more than comparable undisturbed lands. Total cover on the Project site shall be calculated during the antitative monitoring as required in the Vegetation Resources Management BIO-5), which shall complement the IWMP. Quantitative monitoring shall be d using California Native Plant Society (CNPS) Combined Vegetation Rapid nt and Relevé Protocol (CNPS, 2022). Qualitative and quantitative vegetation g will continue for a period of no less than three (3) years or until the defined

PLAN REQUIREMENTS

Consistent with DRECP CMA LUPA-BIO-10 (Standard Practices for Weed Management), the Plan shall include:

- Plan objectives, including weed prevention, identification, and control via eradication, suppression, and containment;
- A list and discussion of weed species occurring or potentially occurring in the Project area, including Cal-IPC threat rankings;
- Role and responsibilities of a Weed Management Biologist, who will track, manage, and coordinate weed management activities;
- A discussion of methods to prevent introduction or spread of weeds, including worker training, vehicle cleaning and inspections, and use of weed-free seed, erosion control materials, and other construction material (gravel, sand, fencing);
- Requirements for annual monitoring of the Project site and 100-foot buffer in the early spring and late summer/early fall during construction, O&M, and decommissioning, and for 5 years after decommissioning;
- A description of monitoring methods to identify and map infestations;
- A description of manual and mechanical treatments that may be used to suppress, contain, or eradicate invasive weeds, such as use of hand or power tools, hand pulling, and soil solarization;
- A description of chemical treatments (herbicide) that may be used, including permitting and regulatory requirements for use, types of herbicides to be used such as preemergent, post-emergent, selective, and non-selective and the weeds they affect, application methods and rates, handling and cleanup procedures, and best practices to minimize impacts of herbicide use on wildlife and native vegetation, such as suspending treatments when winds are high or if precipitation is imminent, mixing herbicides over a drip pan at least 200 feet from open or flowing water, inspecting containers for leaks, and maintaining spill kits in vehicles and storage areas;
- A requirement for any herbicides used to meet the requirements of the BLM Vegetation Treatment guidelines (BLM, 2007; BLM, 2016b) and be implemented in accordance with the PUP (BLM, 2019);
- A description of reporting, to require management and monitoring reports during construction, O&M and decommissioning, and for 5 years after decommissioning;
- Annual reports shall include the location, species, extent, and density of weeds; a description of management efforts, dates, locations, types of treatment, and results; and a summary of preventative measures such as vehicle wash logs and facilities and success of measures.

Responsible Party:		Project Owner
Responsible Monit	oring Party:	Riverside County and BLM
Monitoring Phase/	Timing:	Prior to ground disturbance and during construction, operation, maintenance, and decommissioning
Verification Approv	val Party:	Riverside County, CDFW, and BLM
MITIGATION MEASURE	implemer approved	5: Vegetation Resources Management Plan. The Applicant shall prepare and it a Vegetation Resources Management Plan (VRMP), to be reviewed and by USFWS, CDFW, BLM, and Riverside County (or its designated representative). P shall detail the methods to revegetate temporarily impacted sites and salvage

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special-status plants from the Project footprint; and outline long-term vegetation management within the solar facility during its operations. The Lead Biologist shall oversee implementation of the VRMP to meet success criteria and prevent further degradation of areas temporarily disturbed by Project activities.

The Plan shall require that total native vegetation cover will be no less than 80% of total vegetation cover on nearby undisturbed lands of comparable quality. Project sites previously disturbed by anthropogenic activities will be compared to nearby, similarly predisturbed sites.

As described below, total cover on the Project site shall be calculated during the annual quantitative monitoring as required in the VRMP, using California Native Plant Society (CNPS) Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022).

Transplantation of cacti and ocotillo shall be considered successful with 75% survival after 3 years. If unsuccessful, remediation will be implemented to plant additional cacti at a 2:1 ratio.

PLAN REQUIREMENTS

Consistent with DRECP CMAs LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but Not Converted by Long-Term Disturbance), LUPA-BIO-VEG-1 (vegetation management for cactus, yucca, and other succulents under BLM policy), and LUPA-BIO-VEG-5 (adherence to BLM regulations and policies regarding salvage and transplants of cactus, yucca, other succulents, and BLM sensitive plants), the Plan shall include:

- Revegetation of temporarily impacted sites. The Plan shall specify methods to prevent or minimize further site degradation; stabilize soils; maximize the likelihood of vegetation recovery over time (for areas supporting native vegetation); and minimize soil erosion, dust generation, and weed invasions. The nature of revegetation will differ according to each site, its pre-disturbance condition, and the nature of the construction disturbance (e.g., drive and crush, vs. blading). Revegetation and monitoring will be performed in accordance with CNPS Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022). Additional restoration guidance is provided in Abella and Berry 2016, and Abella et al. 2023, which describe techniques for restoring Mojave and western Sonoran habitats and desert tortoise habitat. New techniques, as available at the time of revegetation, will be integrated into vegetation management and adaptive management. The Plan shall include:
 - soil preparation measures, including locations of recontouring, decompacting, imprinting, or other treatments, as prescribed by the Lead Restoration Ecologist and consistent with CNPS Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022);
 - (a) details for topsoil storage, as applicable;
 - (b) plant material collection and acquisition guidelines, including guidelines and methods for salvaging, storing, and handling seed and plants (including desert native species protected by the CDNPA and special-status plants) from the Project site, as well as obtaining replacement plants from outside the Project area (seed and plant palettes and materials shall be limited to locally occurring native species from local sources);
 - (c) a plan drawing or schematic depicting the temporary disturbance areas (drawing of "typical" gen-tie structure sites will be appropriate);
 - (d) time of year that the planting or seeding will occur and the methodology of the planting;

Biological Resources		
	(e)	maintenance details, including vegetation treatments; a description of the irrigation, if used; erosion control measures; and non-native weed management pethe IWMP;
	(f)	quantitative success criteria for regrowth of vegetation, requiring at least 80% native cover and no more than 20% non-native cover;
	(g)	a monitoring program to measure project compliance with the success criteria including annual quantitative monitoring in accordance with CNPS Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022);
	(h)	contingency measures for failed revegetation efforts not meeting success criteria which may include, but is not limited to, reseeding, re-planting, erosion repairs modifications to irrigation, and repair or remediation of sites;
	(i)	annual monitoring reports to be submitted to BLM and Riverside County (or it designated representative), providing a summary of the restoration and adaptive management activities for the previous year.
	cies	tus Salvage. The Applicant shall include salvaged or nursery stock yuccas (all spe), and cacti (excluding cholla species, genus Cylindropuntia) in revegetation plans Plan shall include:
	(a)	methods of salvage, including heavy equipment or hand tools, depending of plant size. For each plant, the microsite description will be recorded and the north-facing orientation will be identified and tagged.
	(b)	to the extent feasible, plants shall be salvaged during the fall or winter to mini- mize transplantation stress. If cacti must be salvaged during spring or summer they shall be held over in a shade structure and protected from wind and hea until fall for transplantation. If cacti must be installed during spring or summer shade structures or "vertical mulch" (branches cleared from the work sites) wi be provided as shelter from sun and wind.
	(c)	guidelines for removing plants, such that plants are dug to avoid root damage Roots shall be treated, as necessary, and plants shall be transported to avoid roo damage.
	(d)	guidelines for storing plants, such that cacti and ocotillo shall be stored only whe unavoidable. Plants shall be kept shaded and roots kept moist;
	(e)	specific replanting locations shall be identified within Project lands, such as reveg etation areas on temporarily disturbed work sites, unless directed otherwise b BLM (for BLM land) or the County (for private land);
	(f)	methods for re-planting, ensuring that each salvaged plant shall be replanted in a microsite that resembles its salvage site and in the same north-facing orientation tion as the salvage site. Salvaged plants shall be covered deeply enough with so to prevent root exposure and watered immediately after planting and at regular intervals thereafter based on needs of each species.
	(g)	quantitative success criteria for survival, requiring at least 75% survival after years. If this criterion is not met, remediation shall be implemented to plant add tional cacti at a 2:1 ratio or increase native vegetation cover and diversity at Project site.
	(h)	a monitoring program to measure Project compliance with the success criteria including quarterly quantitative monitoring of survival status and identification o remedial actions needed, such as water, shade, or protection from wind, erosion

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		or wildlife. Results of monitoring shall be included in the annual monitoring report, as described above.
	(i)	seeds from special-status plants, if found, would be salvaged for re-vegetation.

ial-status plants, if found, would be salvaged for re-vegetation. CRPR 1 or 2 species that are found shall be experimentally salvaged. No quantitative success criteria are assigned for experimental salvage; however, monitoring data shall be provided to the CDFW, Riverside County, and BLM to inform future mitigation for those species.

Operations Phase On-Site Vegetation Management. The Plan shall include mowing methods and scheduling for on-site vegetation management during O&M. The Plan shall describe vegetation treatments to be implemented to minimize interference with the solar panels, fire hazard, soil disturbance, and disturbance of any bird nests. Vegetation shall be inspected annually to identify hazardous vegetation or barren areas prone to erosion that require repair. All mowed or cut plant material that contains invasive weeds will be transported to a licensed solid waste or composting facility. Mowed or cut native plant material may be used on site as mulch. Weed control during O&M will be conducted as described in the IWMP (MM BIO-4).

Responsible Party:		Project Owner			
Responsible Monitoring Party: Monitoring Phase/Timing: Verification Approval Party:		Riverside County and BLM			
		Prior to ground disturbance and during construction and operation			
		Riverside County, CDFW, and BLM			
MEASURE	MM BIO-6: Wildlife Protection. The Applicant shall undertake the following measures during construction and O&M to avoid or minimize impacts to wildlife. Implementation of all measures shall be subject to review and approval by BLM and Riverside County (or its designated representative).				
	Wildlife avoidance. Project activities shall minimize interference with wildlife (including ground-dwelling species, birds, bats) by allowing animals to escape from a work site prior to disturbance; conducting pre-construction surveys and exclusion measures for certain species as specified in other measures; checking existing structures (homes, trailers, etc.) for animals such as bats, barn owls, skunks, or snakes that may be present, and safely excluding them prior to removing the structures.				
	 Minimize traffic impacts. The Applicant shall specify and enforce maximum vehicle speed limits as specified in the Traffic Control Plan, to minimize risk of wildlife collisions and fugitive dust. 				
I		<i>ze lighting impacts.</i> Night lighting, when in use, shall be designed, installed, and ned to prevent side casting of light towards surrounding fish or wildlife habitat.			
		<i>se of toxic substances.</i> Soil bonding and weighting agents used for dust suppres- unpaved surfaces shall be non-toxic to wildlife and plants.			
1		ze noise and vibration impacts. The Applicant shall conform to noise require- specified in the noise analysis of this EIR to minimize noise to off-site habitat.			
	be cove Prevent tanks w water c	Potable and non-potable water sources such as tanks, ponds, and pipes shall ered or otherwise secured to prevent animals (including birds) from entering. tion methods may include storing water within closed tanks or covering open with 2-centimeter netting. Dust abatement shall use the minimum amount of on dirt roads and construction areas to meet safety and air quality standards. sources (e.g., hydrants, tanks, etc.) shall be checked periodically by biological			

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monitors to ensure they do not create puddles.

- Trash. All trash and food-related waste shall be contained in vehicles or covered trash containers inaccessible to ravens, coyotes, or other wildlife and removed from the site regularly.
- Workers. Workers shall not feed wildlife or bring pets to the Project site. Except for law enforcement personnel, no workers or visitors to the site shall bring firearms or weapons.
- Wildlife exclusion. The Applicant may install temporary or permanent exclusion fencing around equipment, work areas, or Project facilities to prevent wildlife exposure to hazards such as toxic materials or vehicle strikes. If fencing is not used, openings in stored equipment that would allow for entry of wildlife shall be secured with tape or other covering to prevent entrapment. The biological monitor shall perform inspections of equipment prior to use to ensure that no birds have nested on stored equipment and that no wildlife has become entrapped. The biological monitor will inspect exclusion fence (if installed) weekly.
- Wildlife entrapment. Project-related excavations, trenches, auger holes, and water tanks shall be secured or covered to prevent wildlife entry, entrapment, and drowning. Holes and trenches shall be backfilled, securely covered, or fenced. Open water tanks shall be covered or shall have other means of exit provided to prevent wildlife from drowning. Excavations that cannot be fully secured shall incorporate wildlife ramp or other means to allow trapped animals to escape. At the end of each workday, a biological monitor shall ensure that excavations and water tanks have been secured or provided with appropriate means for wildlife escape.
- All pipes or other construction materials or supplies shall be covered or capped in storage or laydown areas. Netting shall be installed over porta-potty vents. No pipes or tubing shall be left open either temporarily or permanently, except during use or installation. Any construction pipe, culvert, or other hollow materials shall be inspected for wildlife before it is moved, buried, or capped.
- Dead or injured wildlife shall be reported immediately to USFWS (for federally listed species and migratory birds) and CDFW (for all wildlife) and/or the local animal control agency, as appropriate, by the Lead Biologist (or the Applicant's compliance manager during O&M). Procedures for handling of dead or injured wildlife shall be outlined in a Wildlife Protection Plan, in coordination with CDFW. A Special Purpose Utility Permit (SPUT) would be acquired from the USFWS prior to collection of migratory bird carcasses. A biological monitor shall safely move the carcass out of the road or work area if needed and dispose of the animal as directed by the agency. If an animal is entrapped, a biological monitor shall free the animal if feasible, work with construction crews to free it in compliance with safety requirements, or work with animal control, USFWS, or CDFW to resolve the situation.
- Pest control. No anticoagulant rodenticides, such as Warfarin and related compounds (indandiones and hydroxycoumarins), may be used within the Project site, on off-site Project facilities and activities, or in support of any other Project activities.

Measures for Crotch bumble bee

 All on-site personnel shall be required to attend the Worker Environmental Awareness Training Program, as detailed in MM BIO-2, that includes education program on identification and avoidance of Crotch bumble bee and nests.

Biological Resources	
ca C ■ P a	a live individual is detected during pre-construction surveys, or incidentally, the Appli- ant shall take adaptive management actions in coordination with CDFW, considering DFW guidance and best management practices at the time of the occurrence. re-construction surveys would include inspection for Crotch bumble bee nests. If any re located, CDFW would be notified and a no-disturbance buffer of at least 50 feet yould be demarcated as determined by the Lead Biologist, in coordination with CDFW.
Responsible Party:	Project Owner
Responsible Monitoring P	Party: Riverside County, USFWS, CDFW, and BLM
Monitoring Phase/Timing	: During construction, operation, and maintenance
Verification Approval Par	ty: Riverside County, CDFW, and BLM
MEASURE with auth ding the Des here	-
REC	QUIRED ACTIONS TO PROTECT TORTOISE DURING CONSTRUCTION
The	following shall be implemented:
d b	nspect for tortoises under vehicles. The ground beneath vehicles parked outside of esert tortoise exclusion fencing will be inspected immediately prior to the vehicle eing moved. If a tortoise is found beneath a vehicle, the vehicle will not be moved ntil the desert tortoise leaves of its own accord.
s If	protect tortoises on roads. The Applicant shall specify and enforce maximum vehicle peed limits as specified in the Traffic Control Plan, to minimize risk of vehicle strikes. Ta tortoise is observed on or near the road accessing a work area, vehicles will stop to llow the tortoise to move off the road on its own.
je tl o t t t	<i>Cortoise Observations</i> . Any time a tortoise is observed within or near a work site, Pro- ect work activities will proceed only at the site and within a suitable buffer area after he tortoise has either moved away of its own accord, or if it has been trans-located off the site under authorization by the USFWS and CDFW. If a tortoise is observed sutside of exclusion fencing, construction will stop, and the tortoise shall be allowed o move out of the area on its own. If a tortoise or tortoise burrow is observed within he exclusion fencing, construction in the vicinity will stop, pending translocation of he tortoise or other action as authorized by USFWS and CDFW.
A b fi E o o	Reporting of dead or injured specimens. Upon locating a dead or injured tortoise, the applicant or its agent will immediately notify the Palm Springs Fish and Wildlife Office y email or telephone. Written notification must be made within five days of the inding, both to the appropriate USFWS field office and to the USFWS's Division of Law nforcement. The information provided must include the date and time of the finding r incident (if known), location of the carcass or injured animal, a photograph, cause f death, if known, and other pertinent information.
	fortoise compensatory mitigation. Compensatory mitigation for desert tortoise shall nelude suitable habitat at a minimum of 1:1 ratio for impacts to desert tortoise

suitable habitat and a ratio of 5:1 for impacts to desert tortoise critical habitat, in coordination with USFWS, CDFW, and in compliance with any ITPs.

PREPARE DESERT TORTOISE PROTECTION AND RELOCATION PLAN

To ensure safe handling and translocation in accordance with applicable wildlife agency guidance, desert tortoises shall be handled or translocated according to a Desert Tortoise Protection and Relocation Plan, to be reviewed and approved by USFWS, CDFW, BLM, and Riverside County.

The Desert Tortoise Protection and Relocation Plan shall be developed in accordance with and be consistent with the Desert Tortoise (Mojave Population) Field Manual (USFWS, 2009); Revised Recovery Plan for the Mojave Population of the Desert Tortoise (USFWS, 2011a); Translocation of Mojave Desert Tortoises from Project Sites: Plan Development Guidance (USFWS, 2020), and Health Assessment Procedures for the Mojave Desert Tortoise (USFWS, 2019b).

Relocated and translocated tortoises will be transmittered and monitored, as described below. All relocated or translocated desert tortoises will be monitored once within 24 hours of release; twice weekly for the first two weeks after release; weekly during the more-active season; biweekly during the less-active season; and for a duration agreed upon by Riverside County, BLM, USFWS, and CDFW from date of release.

PLAN REQUIREMENTS

Consistent with DRECP CMAs LUPA-BIO-COMP-1: (Compensation); LUPA-BIO-IFS-1: (Individual Focus Species [IFS]: Desert Tortoise [activities within desert tortoise linkages]); LUPA-BIO-IFS-2: (new roads in Tortoise Conservation Areas [TCAs]), LUPA-BIO-IFS-3: (culvert sizing for desert tortoise), LUPA-BIO-IFS-4: (desert tortoise exclusion fencing), LUPA-BIO-IFS-5: (desert tortoise monitoring for initial clearing and grading), LUPA-BIO-IFS-6: (desert tortoise monitoring during geotechnical boring), LUPA-BIO-IFS-7: (desert tortoise monitoring during geotechnical boring), LUPA-BIO-IFS-7: (desert tortoise under vehicles), LUPA-BIO-IFS-9: (speed limits in desert tortoise habitat), LUPA-VPL-BIO-IFS-1: (site activities in previously disturbed areas in desert tortoise linkages and TCAs), DFA-BIO-IFS-2 (setback requirements), DFA-BIO-IFS-3: Desert Tortoise (desert tortoise translocation), the Desert Tortoise Protection and Relocation Plan shall include:

Authorized personnel titles and roles. The Applicant shall designate a USFWS Authorized Biologist to implement the desert tortoise protection measures. The Authorized Biologist may (or may not) also serve as the Project's Lead Biologist.

The Applicant shall employ one or more desert tortoise monitors who are qualified to conduct desert tortoise clearance surveys and who will be on site during all construction. The desert tortoise monitors' qualifications will be subject to review and approval by Riverside County and the BLM. Qualifications may include work as a compliance monitor on a project in desert tortoise habitat, work on desert tortoise trend plot or transect surveys, conducting surveys for desert tortoise, or other research or field work on desert tortoise. Attendance at a training course endorsed by the agencies (e.g., Desert Tortoise Council tortoise training workshop) is a supporting qualification.

The Authorized Biologist shall direct one or more desert tortoise monitors to conduct preconstruction clearance surveys for each work area, watch for tortoises wandering into the construction areas, check under vehicles, and examine excavations and other potential pitfalls for entrapped animals.

The Authorized Biologist shall be responsible for overseeing compliance with desert tortoise protective measures and for coordination with resource agencies. The Authorized Biologist will have the authority to halt any Project activities that may risk take of a desert tortoise or that may be inconsistent with adopted mitigation measures or permit conditions. Neither the Authorized Biologist nor any other Project employee or contractor may bar or limit any communications between Riverside County, BLM, CDFW, or USFWS staff and any Project biologist, biological monitor, or contracted biologist. Upon notification by the desert tortoise monitor or another biological monitor of any noncompliance the Authorized Biologist shall ensure that appropriate corrective action is taken.

The following incidents will require immediate cessation of any Project activities that could harm a desert tortoise: (1) location of a desert tortoise within a work area; (2) imminent threat of injury or death to a desert tortoise; (3) unauthorized handling of a desert tortoise, regardless of intent; (4) operation of construction equipment or vehicles outside a Project area cleared of desert tortoise, except on designated roads; and (5) conducting any construction activity without a biological monitor where one is required.

Worker training. Prior to the onset of construction activities, a desert tortoise education program will be presented by the Authorized Biologist to all personnel who will be present on Project work areas. Following the onset of construction, any new employee will be required to formally complete the tortoise education program prior to working on site. The following specifications will be incorporated into the WEAP training, identified in Mitigation Measure BIO-2. At a minimum, the tortoise education program will cover the following topics:

- (a) A detailed description of the desert tortoise, including color photographs;
- (b) The distribution and general behavior of the desert tortoise;
- (c) Sensitivity of the species to human activities;
- (d) The protection the desert tortoise receives under the state and federal Endangered Species Acts, including prohibitions and penalties incurred for violation;
- (e) The protective measures being implemented to conserve the desert tortoise during construction activities; and
- (f) Procedures and a point of contact if a desert tortoise is observed on site.

Plan requirements for pre-construction and clearance surveys and use of exclusion fencing. Prior to the construction of solar facilities, temporary or permanent desert tortoise exclusion fencing will be installed around the entirety of the approved solar field and storage facility construction areas, as well as parking and laydown areas. Fenced areas would be surveyed and monitored to ensure desert tortoise are avoided.

Construction phase tortoise exclusion fencing. Exclusion fencing will adhere to USFWS design guidelines in the Desert Tortoise Field Manual (USFWS, 2009), where applicable. The exact location of different fencing types shall be determined in coordination with the USFWS. Permanent fencing shall be constructed with durable materials (i.e., 16 gauge or heavier) suitable to resist desert environments, alkaline and acidic soils, wind, and erosion. Temporary fencing would be built with the same materials, however it would not be trenched or buried but bent inwards flush with the ground surface.

Tortoise exclusion fencing shall include a "cattle guard" or desert tortoise exclusion gate at each entry point. This gate shall remain closed at all times, except when vehicles are entering or leaving. If it is deemed necessary to leave the gate open for extended periods of time (e.g., during high traffic periods), the gate may be left open as long as a biological monitor is present to monitor for tortoise activity in the vicinity.

Preconstruction surveys. No more than 10 days prior to the initiation of fence construction, a pre-activity tortoise survey shall be conducted along the fence line installation area using techniques that provide 100% visual coverage of the disturbance area. Transects will be spaced 15 feet (5 meters) apart, and within an additional buffer area of 100 feet (30 meters) transects would be spaced 10 meters apart.

Fence monitoring. A biological monitor shall be present during all fence installation activities to inspect the work area and under vehicles for desert tortoise prior to ground disturbance or vehicle access to ensure that no tortoises have moved into the work area. If a desert tortoise moves into the work area, activities will halt until it moves out of the work site on its own accord or is moved from harm's way by an Authorized Biologist.

Fence inspections. Exclusion fencing will be inspected daily for the first two weeks following installation, to monitor for desert tortoise exhibiting fence-walking behavior. If none are observed, exclusion fencing will be inspected weekly during desert tortoise active seasons (April 1 to May 31 and September 1 to October 31), at least monthly during nonactive seasons (June to September, November to March), and following all rain events, and corrective action taken if needed to maintain it.

Unfenced work areas. As an alternative to exclusion fencing, any work conducted in an area that is not fenced to exclude desert tortoises (e.g., gen-tie tower sites) must be monitored by a biological monitor who will stop work if a tortoise enters the work area. Work activities will proceed only at the site and within a suitable buffer area after the tortoise has either moved away of its own accord, or if it has been translocated off the site under authorization by the USFWS and CDFW. Work sites with potential hazards to desert tortoise (e.g., auger holes, steep-sided depressions) that are outside of the desert tortoise exclusion fencing will be fenced by installing exclusionary fencing, covered, or will not be left unfilled overnight.

Clearance surveys. An Authorized Biologist shall direct a clearance survey before the tortoise fence is enclosed to ensure no tortoises are in the work area. After exclusion fencing is fully installed, a desert tortoise pre-construction clearance survey shall be con-ducted within each of the enclosed, fenced areas. Per the USFWS Field Manual (2009), clearance surveys must consist of at least 2 consecutive surveys of the site. Clearance will be considered complete after two successive 100 percent coverage surveys have been conducted without finding any desert tortoises. If active desert tortoise sign is observed during the second survey pass, a third pass may be required after consultation with the agencies. Surveys will be led by Authorized Biologists experienced with searching for desert tortoise, potential burrows, scat, and carcasses. Surveys will consist of 100 percent visual coverage using pedestrian belt transects spaced at 5-meter intervals. An additional 500-foot (150 meter) buffer outside the Project boundary will also be surveyed with pedestrian belt transects spaced at 10 meters apart to identify any potentially active burrows that may be indirectly affected by construction activities.

Clearance surveys must be conducted during the active season for desert tortoises (April 1 through May 31 or September 1 through October 31), unless authorized by CDFW and USFWS.

During the first survey pass, all sign (scat, carcasses, tracks, etc.) shall be removed from the clearance area, which will prevent reidentification of the same tortoise sign in proposed work areas. Desert tortoise carcasses may be returned to USFWS or CDFW, used for educational purposes, or relocated in the natural environment outside the work area fence line, as coordinated with resource agencies.

If a tortoise is located during clearance surveys, work activities will proceed only after the tortoise has either moved away of its own accord, or if it has been relocated or translocated off the site under authorization by the USFWS and CDFW. The buffer distance for work activities shall be 100 feet during the non-active season and at least 250 feet during the active season (September-October and April-May), unless otherwise directed in the CDFW Incidental Take Permit (ITP).

Any potentially occupied burrows will be avoided until monitoring or field observations (e.g., with a motion-activated camera or fiber-optic mounted video camera) determines absence. The fence shall be either continuously monitored prior to closure, or clearance surveys shall be repeated prior to closure after tortoises are removed.

Plan requirements for handling of desert tortoise. Only persons permitted by the USFWS and CDFW under the Desert Tortoise Activity Form (i.e., streamlined Section 7 consultation process) or Incidental Take Permit shall handle desert tortoises. All desert tortoises will be handled by an Authorized Biologist in accordance with the Desert Tortoise Field Manual (2009) and the USFWS Revised Translocation Guidance (2020). Authorized Biologists shall handle tortoises in accordance with approved disinfection and sanitation techniques and procedures defined by the Desert Tortoise Health Assessment Procedures (USFWS, 2019a).

Tortoises shall be handled according to seasonal and temperature constraints, where any handling of desert tortoises would always be below the temperature of 95°F. During handling, the desert tortoise will be kept in a shaded environment that does not exceed 95°F and will not be released until ambient air temperatures fall below 95°F.

Biologists will maintain a record of all desert tortoises identified and handled on the Project site, including photographs, time and location of handling, temperature, condition and measurements of the individual, transmitter information, and information on nests, eggs, and voiding of bladder. Should a tortoise void or defecate between capture and release, it shall be thoroughly rehydrated and rinsed to remove any odors that could attract potential predators. Any desert tortoise handling event shall be completed within 30 minutes or less (not including rehydrating a desert tortoise that has voided).

The Plan shall detail methods for attaching transmitters to desert tortoises that will be relocated, translocated, or monitored. The Applicant will consult with the USFWS Desert Tortoise Recovery Office to coordinate transmitter frequencies. Radio transmitters and antennae must be mounted by an Authorized Biologist so as not to impede growth or the daily activities of the tortoise.

The Plan shall detail nest and egg handling procedures. Any nest that is found will be carefully excavated by hand by an Authorized biologist. A nest will be prepared at the release site with the same depth and location in relation to the burrow entrance as the original nest. The eggs will be transferred to the new nest, maintaining their original orientation and replaced so that they touch one another. Eggs will be gently covered with soil from which cobbles and pebbles have been removed so that all the air spaces around the eggs are filled.

To the greatest extent practicable, bromating (hibernating) tortoises will not be relocated or translocated. If a bromating desert tortoise cannot be avoided by Project activities or be passively relocated, the tortoise may be captured and released in coordination with USFWS and CDFW.

Procedures for relocation, passive exclusion, and translocation of desert tortoise and identification and description of translocation recipient sites.

Relocation. Desert tortoises less than 160 mm will be relocated as soon as possible after detection. Adult desert tortoises (more than 160 mm) identified for relocation will be transmittered and left in situ or within on-site pens following health assessments, data collection, and monitoring, until they can be transported. The Plan shall detail the construction of on-site pens, in accordance with USFWS guidance (USFWS, 2011). Relocation and monitoring of tortoises <100 mm will be coordinated with BLM, USFWS, and CDFW on a case-by-case basis at the time of detection. Desert tortoises will be relocated by an Authorized Biologist within 300 meters of their capture locations in suitable habitat, within adjacent BLM land or private land owned by the Applicant.

Passive exclusion. Passive exclusion shall be prioritized on all linear Project components and in unfenced work areas by using a biological monitor to accompany construction crews and equipment in the field. Construction or maintenance activities will cease if a desert tortoise is detected within the work area or if a tortoise is in imminent danger, until the tortoise moves a safe distance out of the work area. Desert tortoises would be relocated from unfenced work areas if a tortoise does not leave a work area and no other alternate work site is available for crews or an occupied burrow is located within or adjacent to a work area that cannot be avoided.

A Biological Monitor would monitor initial clearing and grading activities for any tortoises missed during the clearance survey. Excavations with steep walls shall have a wildlife escape ramp and be fully covered at the end of the workday to prevent entrapment. After vegetation is fully removed within fenced areas, weekly spot checks shall be conducted to ensure that there are no desert tortoises within the construction area for the duration of the construction phase.

Translocation. If a desert tortoise is found and is not in an area appropriate for relocation (i.e., suitable habitat does not occur within a 1.5-kilometer buffer surrounding the potential release point), the tortoise will be translocated. Translocations shall occur during the tortoise active season.

The Plan shall detail methods and procedures for translocation, including health assessments, transportation requirements, and identification of comparable release locations, in accordance with the Desert Tortoise Field Manual (USFWS, 2009). Per the USFWS Translocation Guidance (2020), a translocation review package, incorporating the penultimate health assessment in the month before the scheduled translocation, shall be submitted to Riverside County, BLM, USFWS, and CDFW for approval of the proposed disposition of each tortoise on the Project site.

Recipient sites shall be approved in consultation with BLM, USFWS, and CDFW, and shall be comprised of suitable desert tortoise habitat with modelled high desert tortoise occupancy (Nussear, 2009). The recipient site shall be sited within desert tortoise critical habitat, unless otherwise directed by the agencies.

Plan requirements for construction monitoring and reporting

Construction monitoring and reporting. During the construction phase, the Authorized Biologist shall prepare daily records of desert tortoise observations and site inspections. If at any time a desert tortoise is identified on the Project site, Riverside County, BLM, USFWS, and CDFW will immediately be notified.

Reporting for construction monitoring and implementation of the Plan shall be provided in weekly updates and monthly reporting to Riverside County, BLM and USFWS, as well as quarterly reporting to CDFW. Annual and final reports shall be submitted to Riverside County, BLM, USFWS, and CDFW, as required. Summaries of compliance tortoise surveys,

relocation, translocation, and monitoring activities conducted during the previous calendar year will be included.

Translocation monitoring and reporting. Telemetry-based monitoring shall be implemented for at least six months to document short-term survival of small numbers of translocated tortoises. The Applicant will consult with Riverside County, BLM, USFWS, and CDFW to determine the appropriate monitoring duration and methodology. All relocated or translocated desert tortoises will be monitored once within 24 hours of release; twice weekly for the first two weeks after release; weekly during the more-active season; biweekly during the less-active season; and for a duration agreed upon by Riverside County, BLM, USFWS, and CDFW from date of release. Health assessments shall be performed twice-annually.

Reporting for translocation shall be provided in weekly updates and monthly reporting to Riverside County, BLM and USFWS, as well as quarterly reporting to CDFW. Annual and final reports will be submitted to Riverside County, BLM, USFWS, and CDFW. Summaries of all compliance tortoise translocation, and post-translocation, effectiveness, and health monitoring activities conducted during the previous calendar year will be included.

Plan requirements for O&M, decommissioning, and adaptive management

O&M. At the Applicant's discretion, and in consultation with resource agencies, permanent desert tortoise exclusion fencing may be installed around each solar facility site. If permanent desert tortoise exclusion fencing is not installed,

Tortoises observed by personnel within the fence line of the solar facility components during routine maintenance activities or along the main access road will be relocated or translocated by permitted biologists, in coordination with USFWS and CDFW. Relocated tortoises will be moved to suitable habitat within 300 meters of where it was found, outside of the fence line within adjacent BLM land or private land owned by the Applicant. Translocated tortoises will be moved to the approved recipient site.

For any routine maintenance or emergency/unexpected repairs that require surface disturbance or heavy equipment desert tortoise shall be allowed to move out of harm's way of its own accord, or the tortoise will be relocated by an Authorized Biologist.

In areas where wildlife-friendly fencing is implemented, temporary exclusion fencing may be removed only after vegetation is successfully re-established and habitat is suitable to support desert tortoise, in coordination with USFWS. If used, wildlife-friendly fencing will be installed around solar arrays in the Pinto Wash Linkage and areas adjacent to desert dry wash woodland that provide higher quality desert tortoise habitat. The security fence would leave a 6- to 8-inch gap between the lower fence margin (rail or mesh) and the ground and the bottom of the fence fabric (chain-link or similar material) would be wrapped upward so that no sharp edges are exposed along the lower fence margin. The fencing would be inspected at least once per quarter by a qualified biologist to identify areas of sand deposits at the fence line or damage to fencing. During the fall and spring quarter, inspections would be performed during active desert tortoise season.

Decommissioning. After decommissioning, fencing shall be removed. Desert tortoise conservation measures shall be in place and the decommissioning activities shall be monitored for the presence of desert tortoise and desert tortoise sign. Observations of desert tortoise shall be reported and protection measures shall be coordinated with USFWS and CDFW.

Adaptive management. Adaptive management measures would be implemented if there is evidence of Project-related disturbance to or increased risk to desert tortoise, and

where initial protection methods have been deemed ineffective based on monitoring results. Remedial actions may include repairs or modifications to fencing, additional surveying, or additional monitoring and inspections. Adaptive management measures used shall be reported in the annual report.

PREPARE A RAVEN MANAGEMENT PLAN

The Applicant shall develop and implement a Raven Management Plan to address activities that may occur during the pre-construction, construction, decommissioning, and O&M phases of the Project that may attract common ravens (*Corvus corax*), a nuisance species that is a subsidized predator of desert tortoises and other sensitive species in the Project vicinity.

The Applicant will submit payment to the Project sub-account of the Renewable Energy Action Team (REAT) Account held by the National Fish and Wildlife Foundation (NFWF) to support the Service's Regional Raven Management Program. The one-time fee will be as described in the cost allocation methodology, or more current guidance as provided by the Service or CDFW. The contribution to the regional raven management plan will be \$105 per acre impacted.

The Plan shall be prepared in accordance with USWFS guidelines in Management of Conflicts Associated with Common Ravens in the United States (USFWS, 2023). If raven monitoring indicates an increase in local raven activity attributed to the Project, measures shall be implemented to deter ravens from the site, such as additional worker education, more stringent restrictions on water use or trash disposal, installation of nest-prevention or roost-prevention devices on Project facilities, or specific measures to "haze" ravens from Project facilities or subsidies in coordination with USFWS and CDFW.

PLAN REQUIREMENTS

Consistent with DRECP CMA LUPA-BIO-6 (Subsidized Predators Standards), the Raven Management Plan will be developed and implemented to:

- (a) Identify conditions associated with the Project that might provide raven subsidies or attractants, including water, anthropogenic food sources, roadkill for scavengers, trash, and perches.
- (b) Describe management practices and control measures to avoid or minimize conditions and subsidies that might increase raven numbers and predatory activities, such as proper and regular disposal of food waste and trash using raven proof containers; removing road-killed animals; securing water thanks from leaks; using the minimum amount of water needed for dust control, panel washing, and irrigation; and use of BMPs for perching and roosting per current standards and practices, including APLIC guidelines (2006, 2012).
- (c) Describe monitoring during construction and operations, including roles and responsibilities for monitoring biologists, monitoring requirements for food and water subsidies, monitoring requirements for raven presence and nesting, and methods to identify individual ravens that prey on desert tortoises.
- (d) Describe reporting requirements for monitoring results, including annual monitoring reports to be submitted to USFWS, CDFW, BLM, and Riverside County.

Responsible Party:	Project Owner
Responsible Monitoring Party: Riverside County, USFWS, CDFW, and BLM	
Monitoring Phase/Timing:	Prior to construction and during construction, operation, and maintenance
Verification Approval Party:	Riverside County, USFWS, CDFW, and BLM

MITIGATION	MM BIO-8: Bird and Bat Conservation Strategy (BBCS). Bird and bat fatality and injury
MEASURE	monitoring is being performed at the neighboring Oberon, Arica, and Victory Pass Projects.
	The approved BBCS plans for these projects include mortality monitoring and sampling
	methods, sampling design, and survey and data collection protocols. The Applicant shall
	use the results of post-construction bird and bat monitoring at the Oberon, Arica, and
	Victory Pass Projects to inform actions to be taken at the Easley Project, focused on the
	development of adaptive management measures that would minimize impacts and

The Applicant shall prepare and implement a BBCS that acknowledges the ongoing monitoring at other projects. The BBCS shall be focused on the implementation of adaptive management measures that may be required depending on monitoring results at the other projects. Adaptive management measures shall be developed in consultation with USFWS based on the results of on-going monitoring and current standards and guidelines. Available guidelines include USFWS Considerations for Avian and Bat Protection Plans (USFWS, 2010). These measures would avoid and minimize take of birds and bats on the Project site that may be vulnerable to injury or mortality on the Project site and/or collision with Project components (IP Easley, 2023).

The plan shall be crafted to meet the following standard: If impacts to avian species are documented at Oberon, Arica, Victory Pass, and Easley Projects and these impacts are shown to result in a substantial, long-term reduction in the demographic viability of the population of the species in question, then the Applicant would coordinate with USFWS and CDFW to determine if adaptive management, as described below, must be implemented to reduce Project related impacts. Over the course of construction and O&M, fatality thresholds and future conservation measures may be subject to revision in coordination with USFWS and CDFW as new information is obtained.

PLAN REQUIREMENTS

mortality to avian and bat species.

Consistent with DRECP CMAs LUPA-BIO-16 (Activity-Specific Bird and Bat CMAs) and LUPA-BIO-17 (Activity-Specific Bird and Bat CMAs BBCS), the Plan shall include:

- A description of bird and bat species in the Project area;
- A project-specific risk assessment that addresses potential for take, based on threats to birds and bats from the Project, including collision, electrocution, territory abandonment, nest and roost site disturbance, habitat loss and fragmentation, disturbance from human presence, and predator subsidies, in accordance with USFWS guidelines (USFWS, 2010);
- A description of the ongoing monitoring occurring at the Oberon, Arica, and Victory Pass Projects and the findings of these programs as of the date of Plan preparation.
- A description of the monitoring that will occur at the Project site. Monitoring efforts will be designed to ensure that birds and bats are identified and avoided on the Project site, and that Project related risks are managed to detect and avoid injury and mortality.
- A description of how the adaptive management actions would be developed and a list of potential adaptive management measures that could be implemented if impacts to any avian species are shown to be occurring at Oberon, Arica, Easley, and Victory Pass and these impacts appear likely to result in a substantial, long-term reduction in the demographic viability of the population of the species in question. Adaptive management measures may include passive avian diverter installations, the use of sound, light or other means to discourage site use consistent with legal requirements, on site

EASLEY RENEWABLE ENERGY PROJECT		APPENDIX L. MITIGATION MONITORING AND REPORTING PROGRAM
Biological Resour	ces	
		t management or control measures consistent with applicable legal require- , or modification to support structures to exclude nesting birds.
	data ii	irement that adaptive management measures be implemented until monitoring ndicates that mortality has not increased due to operation of the Project; and here is not a substantial reduction in demographic viability for the species in on.
	BIRD AN	D BAT COMPENSATION FEE
	mortality based or years to estimate	nt with CMA LUPA-BIO-COMP-2 and in coordination with BLM, compensation for y impacts to bird and bat focus and special-status species shall be determined bird and bat mortality monitoring at the Project and a fee reassessed every five fund compensatory mitigation. The fee is calculated based on bird-use and ad mortality from the Project, per a Resource Equivalency Analysis as directed in PA-BIO-COMP-2.
Responsible Party	/:	Project Owner
Responsible Mon	itoring Party:	Riverside County, CDFW, BLM, and USFWS
Monitoring Phase/Timing: Prior to construction and during construction, oper		Prior to construction and during construction, operation, and maintenance
Verification Appro	oval Party:	Riverside County, CDFW, and BLM
MITIGATION MEASURE	impleme surveyin phase. Ti	-9: Nesting Bird Management Plan (NBMP). The Applicant shall prepare and ent a Nesting Bird Management Plan (NBMP) that will provide a framework for g, management, and monitoring of bird nesting activities during the construction he NBMP shall be prepared in conjunction with the BBCS.
	pre-cons	ect will either avoid vegetation clearing during the nesting season or conduct truction nest surveys of potential habitat and implement no-disturbance buffer bund active nests.
	•	shall ensure that impacts to nesting birds are avoided and minimized through ment of adequate buffers around active nests, as determined by a qualified

biological monitor. Nest surveys shall be conducted for all Project activities throughout the nesting season, (beginning January 1 for raptors and hummingbirds and February 1 for other species, and continuing through August). Nest buffers shall be species-specific, ranging from 100 feet for small passerines to 500 feet for raptors, as defined by the California Public Utilities Commission Nesting Bird Working Group (2015).

Default Buffers for Nests During Construction

Avian Group (nest type/location)	Species Potentially Nesting within Easley Solar Project Site	Minimum Buffers for Ground Construction per Disturbance Level (feet)*
Waterfowl and rails	Canada goose, wood duck, mallard, cinnamon teal, ruddy duck, Virginia rail, sora, American coot, pied-billed grebe	150
Quail	California quail, Gambel's quail	150
Herons	Great blue heron, great egret, snowy egret, cattle egret, black-crowned night-heron	250
Birds of prey (Category 1)	American kestrel, barn owl, western screech-owl	300
Birds of prey ² (Category 2)	Cooper's hawk, red-tailed hawk, red- shouldered hawk, great horned owl	300

Birds of prey (Category 3)	Turkey vulture, red-tailed hawk, white-tailed kite, northern harrier, long-eared owl	500
Shorebirds	Killdeer	200
Pigeons	Band-tailed pigeon	150
Doves	Mourning dove, white-winged dove, common ground-dove	150
Roadrunners	Greater roadrunner	300
Nightjars	Lesser nighthawk, common poorwill	150
Swifts	White-throated swift	200
Hummingbirds	Anna's hummingbird, Costa's hummingbird	100
Woodpeckers	Acorn woodpecker, ladder-backed woodpecker, Nuttall's woodpecker, downy woodpecker, northern flicker	150
Passerines (bridge, culvert, and building nesters)	Black phoebe, Say's phoebe, Ash-throated flycatcher, northern rough-winged swallow, cliff swallow, barn swallow, house finch (3)	100
Passerines (ground nesters, open habitats)	Horned lark, rock wren, western meadowlark, orange-crowned warbler, lark sparrow, grasshopper sparrow	150
Passerines (understory and thicket nesters)	Bushtit, Bewick's wren, blue-gray gnatcatcher (2), black-throated gray warbler, yellow-breasted chat, spotted towhee, black-chinned sparrow, sage sparrow, song sparrow, black-headed grosbeak, blue grosbeak, lazuli bunting, American goldfinch	150
Passerines (shrub and tree nesters)	Pacific-slope flycatcher, Cassin's kingbird, western kingbird (2), loggerhead shrike (2)*, Hutton's vireo, western scrub-jay, American crow, common raven, verdin, bushtit, black- tailed gnatcatcher, blue-gray gnatcatcher (2), cactus wren (2)*, American robin, northern mockingbird, Le Conte's thrasher, phainopepla, yellow warbler, black-throated gray warbler, yellow-breasted chat, California towhee, black-throated sparrow, song sparrow, summer tanager, great-tailed grackle, hooded oriole, Bullock's oriole, house finch (3), Lawrence's goldfinch, lesser goldfinch	150 (300 for species marked with *)
Passerines (open scrub nesters)	Loggerhead shrike (2)*, verdin, cactus wren (2)*, black-tailed gnatcatcher, wren tit, northern mockingbird, California thrasher, Le Conte's thrasher, Phainopepla, orange-crowned warbler, southern rufous-crowned sparrow, California towhee, black-throated sparrow, Brewer's blackbird, lesser goldfinch	150 (300 for species marked with *)

Passerines (tower nesters)	Western kingbird (2), common raven, house finch (3)	150
Species not covered under MBTA	Domestic waterfowl, including domestic- cated mallards, feral (rock) pigeon, ring- necked pheasant, chukar, Eurasian collared dove, spotted dove, parrots, parakeets, European starling, house sparrow	NA

PLAN REQUIREMENTS

Consistent with DRECP CMAs LUPA-BIO-16 (Activity-Specific Bird and Bat CMAs), LUPA-BIO-17 (Activity-Specific Bird and Bat CMAs BBCS), DFA-BIO-IFS-1 (Individual Focus Species (IFS) (pre-construction/activity breeding season surveys for individual species – Bendire's thrasher, burrowing owl, golden eagle), DFA-BIO-IFS-2 (Setbacks for individual species – Bendire's thrasher, burrowing owl, golden eagle), LUPA-BIO-3 (Resource Setback Standards), LUPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species (pre-construction/activity nesting bird surveys)), and LUPA-BIO-IFS-12 (Burrowing Owl (setbacks and monitoring for burrows)) the Plan shall include:

- A site description detailing the suitability of the Project site for nesting birds, the species that may be encountered, and potential impacts to nesting birds
- Identification of qualifications, roles, and responsibilities of the Lead Biologist, biological monitors, and avian biologists
- Methods for preconstruction nest surveys and "sweeps" for nesting activity during construction, including the following:
 - Pre-construction surveys for active nests shall be conducted by one or more qualified biological monitors at the direction of the Lead Biologist.
 - Nest surveys shall be conducted for all Project activities throughout the nesting season, identified here as beginning January 1 for raptors and hummingbirds and February 1 for other species, and continuing through August 15.
 - Any nesting surveys involving passerines shall be conducted within 4 days of the initiation of any vegetation clearance or grading. Surveys involving raptors shall be conducted 7 days prior. An additional preconstruction survey shall be conducted immediately prior to initial Project related, ground disturbing activities to confirm no new nests are found. Surveys shall be repeated regularly during nesting season in nesting habitat.
 - Survey methods shall follow standard nest-locating techniques such as those described in Martin and Guepel (1993). Surveys may be systematic transects, meandering transects, or other methods which are determined by the Lead Biologist based on site-specific characteristics, performed in the Project site and a 1,200-foot buffer for raptors and a 300-foot buffer for other species surrounding each work area. If adjacent properties are not accessible to the biological monitors, the off-site nest surveys may be conducted with binoculars.
 - Detection of nests shall be reported using an Avian Nest Reporting Form developed in coordination with USFWS and CDFW.

- Establishment of exclusion buffers surrounding active nests and procedures for reduction of buffers including the following:
 - At each active nest, the biological monitor shall establish and mark a buffer area surrounding the nest where construction activities that could disrupt nesting behavior will be excluded.
 - The default buffer distance established around a particular nest shall be speciesspecific, as developed by the California Public Utilities Commission Nesting Bird Working Group (2015), which ranges from 100 feet for passerines to 500 feet for raptors, in coordination with BLM, CDFW, and USFWS.
 - Construction shall not occur within the designated nest exclusion buffer until the nest is no longer active (i.e., the young fledge from the nest, or the nest is abandoned).
 - Buffer reductions for special-status species shall not occur beyond the default distances without notification to BLM, USFWS, or CDFW, as appropriate, at least 3 calendar business days prior to the proposed buffer reduction. Any threatened or endangered listed species would require agency approval prior to any buffer reduction.
- Procedures for active nest monitoring:
 - Active nest monitoring shall occur at a minimum of one to three times per week, depending on site-specific conditions.
 - Nests shall be monitored and mapped from a distance, and nest details will be recorded including species, nesting stage, and nesting outcome. Only the Lead Biologist or Avian Biologist/Monitor may enter the established buffer zone of a nest.
- Guidelines for nest removal:
 - If a bird nest must be removed during nesting season, the Applicant shall notify CDFW and USFWS and retain written documentation of the correspondence. Nests shall be removed only if they are inactive or if an active nest for a non-special status species presents a hazard to people or other wildlife. Removal of an active nest requires a permit from USFWS, which would be acquired, as needed. All nest removals shall be documented and described in the Annual Report.
- Reporting requirements:
 - A nest survey and monitoring log shall document all new and monitored nests, including date, species of bird, nest status (e.g., nest building, incubiting, fledglings present, or inactive); unique identification number of each nest monitored and coordinates (easting and northing); estimated date of nest establishment; estimated fledge date; description of and distance to nearby construction activities; relative noise level; description of any nearby non-Project activities (e.g., publicly accessible roads or trails); exclusion buffer size; and description of additional measures taken to protect nests.
 - Logs and corresponding maps showing the disturbance limits, Project features, and current nest buffer data shall be updated weekly and made available to survey crews, construction personnel, and resource agencies.
 - During construction, the Applicant shall provide an Annual Report detailing a summary of nesting activities on the Project site and survey buffers. The Applicant shall provide the annual reports to Riverside County, BLM, CDFW, and the USFWS during the last quarter following each of season of construction that occurs during the nesting season.
- Adaptive Management:

Biological Resources	
	 Adaptive management measures shall be implemented if there is evidence of Project-related disturbance to nesting birds where initial protection methods (i.e., buffers) are determined to be ineffective. Triggers for adaptive management include agitation behavior (displacement, avoidance, and defense), increased vigilance behavior at nest sites, changes in foraging and feeding behavior, or nest site abandonment. Potential adaptive management measures shall be identified, which may include increased buffer width; additional worker education; modifying work intervals, or allowing specific work types that may be implemented on a case-by-case basis; cessation of construction activities that are the source of disturbance to the nesting bird; or installation of visual or sound barriers.
Responsible Party:	Project Owner
Responsible Monitor	ring Party: Riverside County, CDFW, BLM, and USFWS
Monitoring Phase/Ti	ming: Prior to construction and during construction, operation, and maintenance
Verification Approva	I Party: Riverside County, CDFW, and BLM
MITIGATION MEASURE	MM BIO-10 : Gen-tie lines. Gen-tie line support structures and other facility structures shall be designed in compliance with current standards and practices to discourage their use by raptors for perching or nesting (e.g., by use of anti-perching devices). This design also reduces the potential for increased predation of special-status species, such as the desert tortoise. Mechanisms to visually warn birds (permanent markers or bird flight diverters) shall be placed on gen-tie lines at regular intervals to prevent birds from colliding with the lines (APLIC, 2006, 2012). To the extent practicable, the use of guy wires shall be avoided because they pose a collision hazard for birds and bats. Necessary guy wires shall be clearly marked with bird flight diverters to reduce the probability of collision. Shield wires shall be marked with devices that have been scientifically tested and found to significantly reduce the potential for bird collisions. Gen-tie lines shall maintain sufficient distance between all conductors and grounded components to prevent potential for electrocution of the largest birds that may occur in the area (e.g., golden eagle and turkey vulture). They shall utilize non-specular conductors and non-reflective coatings on insulators.
Responsible Party:	Project Owner
Responsible Monitor	ing Party: Riverside County and BLM
Monitoring Phase/Ti	ming: Prior to and during construction
Verification Approva	I Party: Riverside County and BLM
MITIGATION MEASURE	 MM BIO-11: Burrowing Owl Avoidance and Relocation. Burrowing owl protection and relocation will meet the following requirements, in accordance with CDFW burrowing owl protocols (1993, 2012): Pre-construction surveys for burrowing owls, possible burrows, and sign of owls (e.g., pellets, feathers, whitewash) will be conducted throughout each work area. Survey schedules will be coordinated with constructing the desert tortoise exclusion fence and the pre-construction desert tortoise clearance surveys. As needed, follow-up surveys will be conducted no more than 14 days prior to construction. Pre-construction surveys shall consist of walking parallel transects 7 to 20 meters apart, adjusting for vegetation height and density as needed, and noting any potential burrows with fresh burrowing owl sign or presence of burrowing owls.

If an active burrowing owl burrow is detected within any Project disturbance area, or within a 150-meter buffer of the disturbance area, a 150-meter (500-foot) exclusion buffer will be maintained while the burrow remains active or occupied. The buffer may be reduced to 50 meters (160 feet) during the non-breeding season (September 1 to January 31). The size of the buffer may be adjusted based on the time-of-year, and level of disturbance in the area, after consultation with CDFW. The following provides exclusion buffer guidelines for nesting sites (CDFW, 2012); which may be adjusted in the field by the Designated Biologist/Authorized Biologist, in consultation with agency personnel.

	• •		
Time of Year	Low	Medium	High
April 1 – Aug 15	200	500	500
Aug 16 – Oct 15	200	200	500
Oct 16 – Mar 31	50	100	500

* Levels of disturbance: Low = drive by, low use, once per week; Medium = 15 minutes to 2 hours of activity, less than 49 decibels, one or two passes per day; High = more than 2 hours of activity, more than 49 decibels

- Any unoccupied suitable burrows within the solar facility footprint will be excavated and filled in under the supervision of the Lead Biologist prior to site preparation. Any unoccupied burrows located outside the construction activity zones shall be left in their current condition.
- Passive relocation shall only be used during the non-breeding season, generally September 1 to February 1, to exclude burrowing owls from the Project site. Passive relocation shall be implemented to provide replacement burrows off site (if needed); collapse all unoccupied burrows within the construction site; and install a one-way door on the occupied burrow to evict the burrowing owl without handling it. Prior to any passive relocation, biologists shall survey nearby habitats to identify and inventory suitable unoccupied natural burrows for relocation. If none are available, artificial burrows shall be constructed based on the number of burrowing owls in need of relocation.
- Artificial burrows shall be located at least 50 meters outside any temporary or permanent Project impact areas, but as close as possible to the original burrow and no more than one mile from the original burrow location if possible. Artificial burrows will be designed, constructed, and installed following guidelines provided in CDFW (2012). All artificial burrows and mapped natural burrows shall be monitored for burrowing owl use at least once per quarter throughout the construction phase of the Project.
- Following the excavation of all suitable inactive burrows within the construction area and installation of artificial burrows, burrowing owls will be passively excluded from occupied burrows. Burrow exclusion will involve the installation of one-way doors in burrow openings during the non-breeding season. Following confirmation that passive exclusion burrows are unoccupied, the burrows shall be carefully excavated using hand tools, or small tracked equipment, and backfilled to ensure that they are no longer suitable for burrowing owl use.
- Compensatory mitigation for burrowing owl shall include suitable habitat for the species at a minimum of 1:1 ratio, as determined in coordination with CDFW.

Responsible	Party:
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Project Owner

Biological Resourc	ces		
Monitoring Phase/Timing:		Riverside County and BLM	
		Prior to construction	
		Riverside County and BLM	
MITIGATION MEASURE		12: Desert Kit Fox and American Badger Relocation. Desert kit fox and American rotection and relocation will incorporate the following requirements:	
	tion su dinated desert	direction of the Lead Biologist, biological monitors shall conduct pre-construc- inveys for desert kit fox and American badger. Surveys schedules will be coor- d with constructing the desert tortoise exclusion fence and the pre-construction tortoise clearance surveys. Surveys shall also consider the potential presence of within 100 feet of the Project boundary (including utility corridors and access	
		are detected each den shall then be classified as inactive, potentially active, or ely active.	
	back danc Exca supe	tive dens directly impacted by construction activities shall be excavated and cfilled to prevent reuse. Excavation and backfilling shall be conducted in accor- ce with standard approved desert tortoise burrow excavation and protocols. avation will use hand tools or a small driver-operated backhoe under close ervision of a qualified biologist, as there are no excavation standards and proto- for desert kit fox or badger.	
	facili mini med pote	lens identified as potentially active or active within the Project footprint (solar ities and gen-tie work sites) shall be monitored by a biological monitor for a mum of 3 consecutive nights using a tracking medium such as diatomaceous lium or fire clay and/or infrared camera stations at the entrance. Each active or entially active den shall be further classified as non-natal or natal (pups are ent) based on tracks or photos observed after the initial 3 consecutive nights.	
	burn will b be ex tion plete ultra lents CDFV these third ensu firme	ter 3 nights of den monitoring, no desert kit fox/badger tracks are found at the ow entrance and no photos of the target species using the den are observed, it be determined that the desert kit fox/badger den or complex is inactive and will xcavated. If an active non-natal den is detected on the site, a 100-foot construc- exclusion zone will be established until passive relocation is successfully com- ed. Passive relocation methods include spray deterrents, transistor radios, and asonic emitters. Any kit fox hazing activities that include the use of animal repel- s such as coyote urine must be cleared through the CDFW prior to use. With W approval, the den may be blocked with natural materials or bag barriers. If e methods are unsuccessful, installation of one-way doors may be used. On the d day following one-way door installation, all den entrances will be inspected to ure they are clear of sign and that desert kit fox or badger have vacated. Con- ed active dens may be excavated if passive relocation was successful. Dens shall collapsed prior to construction of the perimeter fence, to allow animals the portunity to move off site without impediment.	
	nigh [:] ema all ac	ential natal dens shall be monitored for a minimum of 3 additional consecutive ts. If a den or complex is determined to be natal, the CDFW shall be notified via il within 24 hours. A 500-foot no disturbance buffer shall be maintained around ctive natal dens. Passive relocation and excavation will not be implemented until itoring confirms that the den is no longer in active use as a natal den. Active	

passively relocated or excavated without prior approval from CDFW.

dens identified early in the pupping season, from February 1 to April 30, will not be

Biological Resources	5	
	to er no ac	biological monitor shall make weekly visits to the location of passive relocation issure that desert kit fox or badger do not re-excavate and reoccupy the area if ctive ground disturbing construction is occurring within the vicinity.
	identifi	cumented kit fox mortality shall be reported to the CDFW within 24 hours of cation. If a dead kit fox is observed, it shall be retained and protected from gers until the CDFW determines if the collection of necropsy samples is justified.
Responsible Party:		Project Owner
Responsible Monito	ring Party:	Riverside County, BLM, and CDFW
Monitoring Phase/Ti	iming:	Prior to and during construction
Verification Approva	al Party:	Riverside County, BLM, and CDFW
MITIGATION MEASURE	implemer buffer, ar BIO-11), a requireme reporting	13 : Wildlife Protection and Relocation Plan. The Applicant shall prepare and at a Wildlife Protection and Relocation Plan that incorporates the protection, and survey requirements for desert tortoise (MM BIO-7), burrowing owl (MM and desert kit fox and American badger (MM BIO-12). The Plan shall specify the ents for each species and provide a framework for adaptive management and of survey results. The Plan must be reviewed by Riverside County, BLM, CDFW, /S prior to the start of ground-disturbing activities.
		rtoise, burrowing owl, desert kit fox, and American badger buffers shall be main- directed in MM BIO-7, MM BIO-10, and MM BIO-11.
	PLAN REC	QUIREMENTS
	(Water ar (General	t with DRECP CMAs LUPA-BIO-6 (Subsidized Predators Standards), LUPA-BIO-9 nd Wetland Dependent Species Resources), LUPA-BIO-12 (Noise), LUPA-BIO-14 Standard Practices), LUPA-BIO-IFS-12 (Burrowing Owl), LUPA-BIO-IFS-13 ng Owl), DFA-BIO-IFS-1 (Individual Focus Species (IFS)), the Plan will include:
		nary of wildlife survey methods and results;
	biologis	
		ures for pre-construction clearance surveys;
	insta as pa cons that pote dete	to construction of solar facility, desert tortoise exclusion fencing will be lled around the entirety of the approved solar field construction areas, as well arking and laydown areas. No more than 10 days prior to the initiation of fence truction, a pre-activity multi-species survey shall be conducted using techniques provide 100% visual coverage of the disturbance area. If any burrow within the ntial disturbance area for fence construction or inside the planned fence line is rmined to be unoccupied, it will be carefully collapsed per guidelines from the ort Tortoise Field Manual (USFWS, 2009).
	takeı	burrow is potentially occupied by a target species, then further actions will be in to passively exclude the animal during the appropriate season (as detailed in BIO-7, MM BIO-10, and MM BIO-11).
	100% addit surve	e the fence is constructed, clearance surveys within fenced areas shall consist of 6 visual coverage using pedestrian belt transects spaced at 5-meter intervals. An tional 500-foot (150-meter) buffer outside the Project boundary shall also be eyed with pedestrian belt transects spaced at 10 meters apart, where possible, lentify any potentially active burrows or complexes that may be indirectly

affected by construction activities. Surveys shall focus on sign for desert tortoise, desert kit fox, American badger, and burrowing owl.

- Any burrows or den complexes identified shall be classified as inactive, possibly active, or active. Inactive dens that would be directly impacted by construction shall be excavated. All burrows and kit fox den complexes that are potentially active or active with live individuals inside will be further observed per the requirements of individual species as detailed in MM BIO-7 (desert tortoise), MM BIO-10 (burrowing owl), and MM BIO-11 (desert kit fox, American badger). Confirmed active dens may be excavated upon successful passive relocation. Excavations shall be photographed for reporting to demonstrate success and sufficiency.
- Methods for construction monitoring;
 - Biological Monitors shall be present during fence construction (security fencing, desert tortoise exclusion fencing, or both for the solar sites), vegetation removal, and ground disturbance to ensure that wildlife is not present. After vegetation is cleared, biological monitors will perform spot checks in fenced areas immediately prior to initiation of construction to ensure that no wildlife have re-entered the site.
 - Along the gen-tie line, biological monitors shall escort construction vehicles and inspect work areas prior to crews beginning any ground disturbance. All parked vehicles and equipment, and the ground beneath them, will be inspected for wildlife prior to being moved. Work activities shall be stopped by the Biological Monitor if any target species or other special-status species, such as desert tortoise, enters the work area. Work activities shall proceed at the site only after the animal has either moved away of its own accord or, is moved from harm's way by a biologist with state and federal authorization and according to any conditions identified in applicable authorizations.
- Detailed species-specific exclusion methods for special-status wildlife as follows:
 - <u>Couch's spadefoot toad</u>. Potential breeding habitat identified during wildlife surveys shall be inspected after sufficient rainfall for Couch's spadefoot toad. If Couch's spadefoot toads are found on the Project site, the permitting and wildlife agencies will be consulted in order to develop an avoidance strategy.
 - <u>Desert tortoise</u>. See MM BIO-7 for details on buffers, monitoring, exclusion, relocation, and translocation.
 - <u>Burrowing owl</u>. See MM BIO-10 for details on burrow buffers, monitoring, passive relocation, and excavation.
 - <u>Desert kit fox and American badger</u>. See MM BIO-11 for details on den buffers, monitoring, passive relocation, and excavation.
- Procedures for handling sick, injured, or dead wildlife;
 - Resource agencies would be immediately notified of sick, injured, or dead wildlife. Written follow-up notification via email will be submitted within 24 hours, including the location (GPS record), photographs (if available), and any relevant observations at the time of detection. The animal will be handled and transported only on direction from the wildlife agencies. Health and safety precautions will be used at all times when handling the animal.
- Description of adaptive management methods;
 - If there is evidence of Project-related disturbance or increased risk to special-status wildlife, where initial protection methods have been deemed ineffective, adaptive

Biological Resource	S
	management would be implemented in coordination with resource agencies, such as additional surveying and monitoring, increased buffers, seasonal restrictions, additional artificial replacement burrows, or agency approved wildlife relocation.
	 Description of reporting requirements;
	 During construction, reporting shall be provided in weekly, monthly, quarterly, and annual compliance reports to the permitting and wildlife agencies. During O&M, reports shall be provided quarterly, unless more frequent reporting is prudent based on species presence. Reports shall provide a summary of activities performed and the results for each species. Data recorded shall be submitted as appendices to each report.
Responsible Party:	Project Owner
Responsible Monito	oring Party: Riverside County, BLM, CDFW, and USFWS
Monitoring Phase/T	iming: Prior to and during construction
Verification Approv	Party: Riverside County, BLM, CDFW, and USFWS
MITIGATION MEASURE	MM BIO-14: Streambed and Watershed Protection. If jurisdictional features cannot be avoided, prior to ground disturbance activities that could impact these aquatic features, the Applicant shall file a complete Report of Waste Discharge with the RWQCB to obtain Waste Discharge Requirements (WDR) and shall consult with CDFW on the need for a streambed alteration agreement. If permits are required, they shall be obtained prior to disturbance of jurisdictional resources. Copies of the approved permit shall be submitted to Riverside County.
	Compensatory mitigation for impacts to jurisdictional streambeds/washes shall be identi- fied prior to disturbance of the features at a minimum 1:1 ratio, and a 5:1 ratio for minor incursions to desert dry wash woodland, as approved by RWQCB or CDFW, either through onsite or offsite mitigation, or purchasing credits from an approved mitigation bank. The Applicant shall comply with the compensatory mitigation required and provide proof of compliance, along with copies of permits obtained from the RWQCB and/or CDFW shall be provided to Riverside County.
	A Stormwater Pollution Prevention Plan (SWPPP) or SWPPP-equivalent document shall be prepared by a qualified engineer or erosion control specialist and implemented before and during construction. The SWPPP shall include BMPs for stormwater runoff quality control measures, management for concrete waste, stormwater detention, watering for dust control, and construction of perimeter silt fences, as needed.
	 The Applicant shall implement BMPs identified below to minimize adverse impacts to streambeds and watersheds.
	 Vehicles and equipment will not be operated in ponded or flowing water except as specified by resource agencies.
	 The Applicant will minimize road building, construction activities, and vegetation clearing within ephemeral drainages.
	 The Applicant will prevent water containing mud, silt, or other pollutants from gra- ding or other activities from entering ephemeral drainages or being placed in locations that may be subjected to high storm flows.
	 Spoil sites will not be located within 30 feet from the boundaries of drainages or in locations that may be subjected to high storm flows, where spoils might be washed back into drainages.

Biological Resources	
oil oi that relat ephe by th	cement/concrete or washings thereof, asphalt, paint or other coating material, r other petroleum products, unapproved herbicides, or any other substances could be hazardous to vegetation or wildlife resources, resulting from Project- ed activities, will be prevented from contaminating the soil and/or entering emeral drainages. The Applicant shall ensure that safety precautions specified his measure, as well as all other safety requirements of other measures and hit conditions are followed during all phases of the Project.
the v	n operations are completed, any excess materials or debris will be removed from vork area. No rubbish will be deposited within 150 feet of the high-water mark by drainage during construction, operation, and decommissioning the Project.
 No e 4, or prod 	quipment maintenance will occur within 150 feet of any wetland, Category 3, 5 streambed, or any streambed greater than 10 feet wide. No petroleum ucts or other pollutants from the equipment will be allowed to enter these s or enter any off-site state jurisdictional waters under any flow.
insta city a	the exception of the drainage control system installed for the Project, the llation of bridges, culverts, or other structures will be such that water flow (velo- and low flow channel width) is not impaired. Bottoms of temporary culverts will aced at or below stream channel grade.
organ natu	roken concrete, debris, soil, silt, sand, bark, slash, sawdust, rubbish, or other nic or earthen material from any construction or associated activity of whatever re will be allowed to enter into or be placed where it may be washed by rainfall noff into, off-site state jurisdictional waters.
withi equij up ec	onary equipment such as motors, pumps, generators, and welders located in or adjacent to a drainage will be positioned over drip pans. Stationary heavy pment will have suitable containment to handle a catastrophic spill/leak. Clean quipment such as brooms, absorbent pads, and skimmers will be on site prior e start of construction.
River	cleanup of all spills will begin immediately. USFWS, SWRCB, CDFW, BLM, and rside County will be notified immediately by the Applicant of any spills and will possulted regarding clean-up procedures.
Responsible Party:	Project Owner
Responsible Monitoring Party:	CDFW and Riverside County
Monitoring Phase/Timing:	Prior to ground disturbance in jurisdictional waters of the state
Verification Approval Party:	CDFW and Riverside County
Cultural and Tribal Cultural Res	ources

MITIGATION MEASURE	APM CULT-1: Native American Monitoring . The Applicant will enter into an agreement with interested culturally-affiliated and/or consulting tribe(s) to employ at least one Native American Monitor per archaeological monitor. A Native American monitor will be called immediately upon discovery of a cultural resource if a Native American monitor is not already present. In conjunction with the County- and BLM-approved archaeologist(s),
	the Native American Monitor will be invited to monitor all initial ground disturbing acti- vities and excavation of each portion of the Project site including clearing, grubbing, tree removals, grading and trenching, as outlined in the Project's Cultural Resource Monitor- ing Plan (see Mitigation Measures [MMs] CUL-1 and TCR-1), and attend meeting(s) to discuss the significance of unanticipated find(s) and appropriate treatment of unanticipated

Cultural and Tribal Cultural Resources

resources. The Applicant will immediately alert interested culturally-affiliated and consulting tribes in the event of an unanticipated discovery. "Native American Monitor" means an individual who is presented as a representative of a tribal government for one of the culturally-affiliated or consulting tribes for the Easley Project and who has received specialized training approved by that tribal government to serve as a monitor.

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Responsible Party:	Project Owner
Responsible Monitoring Pa	rty: Riverside County and BLM
Monitoring Phase/Timing:	Prior to ground disturbance and during construction
Verification Approval Party	r: Riverside County and BLM
MEASURE ance River Archa gram detai the ir as ad with Mon this c Work Archa obse inclu	CUL-1: Project Archaeologist and Cultural Resource Monitoring Plan. Prior to issuoi of grading permits: The applicant/developer shall provide evidence to the County of side Planning Department that a County certified professional archaeologist (Project aeologist) has been contracted to implement a Cultural Resource Monitoring. Pro- I (CRMP). A Cultural Resource Monitoring Plan shall be developed that addresses the Is of all activities and provides procedures that must be followed in order to reduce mpacts to cultural and historic resources to a level that is less than significant as well dress potential impacts to undiscovered buried archaeologist to ensure compliance with condition of approval. King directly under the Project Archaeologist, an adequate number of qualified aeological Monitors shall be present to ensure that all earth moving activities are rved and shall be on-site during all grading activities for areas to be monitored ding off-site improvements. Inspections will vary based on the rate of excavation, naterials excavated, and the presence and abundance of artifacts and features. The aency and location of inspections will be determined by the Project Archaeologist.
Responsible Party:	Project Owner
Responsible Monitoring Pa	rty: Riverside County and BLM
Monitoring Phase/Timing:	Prior to issuing grading permits and during construction
Verification Approval Party	r: Riverside County and BLM
MEASURE Train groun Envir day o Reso and r repre train incor into t ques banc Train	CUL-2: Develop and Implement Cultural Resources Environmental Awareness ing. Prior to issuance of a Notice to Proceed by the County and for the duration of nd disturbance (as defined in MM TCR-1), the Applicant shall provide Worker onmental Awareness Program (WEAP) training to all workers prior to or on their first of employment at the Project site. The training shall be prepared by the Cultural urces Specialist (CRS), may be conducted by any member of the archaeological team, may be presented in the form of an annotated and narrated digital slide show. Tribal esentatives will be given the opportunity to participate in the WEAP training. The ing shall be prepared in consultation with culturally affiliated Native Americans to porate the tribal knowledge and perspectives from these Native American groups the presentation. The CRS shall be available (by telephone or in person) to answer tions posed by employees. The training may be discontinued when ground distur- e is completed or suspended but must be resumed if ground disturbance resumes. ing shall include the following: discussion of applicable laws and penalties under the law

A discussion of applicable laws and penalties under the law

Cultural and Tribal Cultural Resources

- Samples or visuals of artifacts that might be found in the Project vicinity.
- A brief review of the cultural sensitivity of the Project and the surrounding area
- A discussion of what such artifacts may look like when partially buried, or wholly buried and then freshly exposed.
- A discussion of what prehistoric and historical archaeological deposits look like at the surface and when exposed during construction, and the range of variation in the appearance of such deposits.
- Instruction that only the CRS, alternate CRS, and supervisory cultural resource field staff have the authority to halt ground disturbance in the area of a discovery to an extent sufficient to ensure that the resource is protected from further impacts, as determined by the CRS.
- Instruction that employees are to halt work on their own in the vicinity of a potential cultural resources discovery and shall contact their supervisor and the CRS or supervisory cultural resource field staff, and that redirection of work would be determined by the construction supervisor and the CRS.
- An informational brochure that identifies reporting procedures in the event of a discovery.
- An acknowledgment form signed by each worker indicating that they have received the training.
- A sticker that shall be placed on hard hats indicating that WEAP training has been completed.

This is a mandatory training, and all construction personnel must attend prior to beginning work on the Project site. A copy of the sign-in sheet shall be kept ensuring compliance with this measure. No ground disturbance shall occur prior to implementation of the WEAP training unless such activities are specifically approved by the County.

Responsible Party:		Project Owner
Responsible Monito	oring Party:	Riverside County and Consulting Tribe Representative
Monitoring Phase/Timing: Verification Approval Party:		Prior to construction and during any ground disturbing activities Riverside County
Responsible Party:		Project Owner

Responsible Monitoring Party: Riverside Co	unty and BLIVI
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Cultural and Tribal C	ultural Resources
Monitoring Phase/Ti	ming: During any ground disturbing activities
Verification Approva	al Party: Riverside County and BLM
MITIGATION MEASURE	MM CUL-4: Unanticipated Resources. The developer/permit holder or any successor in interest shall comply with the following for the life of this permit. If during ground disturbance activities, unanticipated cultural resources* are discovered, the following procedures shall be followed:
	All ground disturbance activities within 100 feet of the discovered cultural resource shall be halted and the Project archaeologist shall call the County Archaeologist immediately upon discovery of the cultural resource. A meeting shall be convened between the developer, the project archaeologist,** the Native American tribal representative, and the County Archaeologist to discuss the significance of the find. At the meeting with the aforementioned parties, a decision is to be made, with the concurrence of the County Archaeologist, as to the appropriate treatment (documentation, recovery, avoidance, etc.) for the cultural resource. Resource evaluations shall be limited to nondestructive analysis. Further ground disturbance shall not resume within the area of the discovery until the appropriate treatment has been accomplished.
	 A cultural resource site is defined, for this condition, as being a feature and/or three or more artifacts in close association with each other.
	** If not already employed by the project developer, a County approved archaeologist shall be employed by the project developer to assess the significance of the cultural resource, attend the meeting described above, and continue monitoring of all future site grading activities as necessary.
Responsible Party:	Project Owner
Responsible Monito	ring Party: Riverside County and BLM
Monitoring Phase/Ti	ming: During grading or other construction, operation, or decommissioning activities
Verification Approva	al Party: Riverside County and BLM
MITIGATION MEASURE	MM CUL-5: Treatment of Human Remains . If human remains are found on this site, the developer/permit holder or any successor in interest shall comply with State Health and Safety Code Section 7050.5.
Responsible Party:	Project Owner
Responsible Monito Party:	ring Riverside County and BLM
Monitoring Phase/Ti	ming: During grading or other construction, operation, or decommissioning activities
Verification Approva	al Party: Riverside County and BLM
MITIGATION MEASURE	MM CUL-6: Phase IV Monitoring Report. Prior to Grading Permit Final Inspection, a Phase IV Cultural Resources Monitoring Report shall be submitted that complies with the Riverside County Planning Department's requirements for such reports for all ground disturbing activities associated with this grading permit. The report shall follow the County of Riverside Planning Department Cultural Resources (Archaeological) Investigations Standard Scopes of Work posted on the TLMA website. The report shall include results of any feature relocation or residue analysis required as well as evidence of the required cultural sensitivity training for the construction staff held during the required pre-grade

Cultural and Tribal Cultural Resources		
	-	nd evidence that any artifacts have been treated in accordance to procedures in the Cultural Resources Monitoring Plan.
Responsible Party:		Project Owner
Responsible Monitor	ring Party:	Riverside County and BLM
Monitoring Phase/Ti	ming:	Prior to Grading Permit Final Inspection
Verification Approval Party:		Riverside County and BLM
MITIGATION MEASURE	developer, a Native A initial grou including o the Archae to tempor fication, ev applicant s to ensure logist shall	L: Native American Monitor . Prior to the issuance of grading permits, the /permit applicant shall enter into an agreement with the consulting tribe(s) for merican Monitor. The Native American Monitor(s) shall be on-site during all and disturbing activities and excavation of each portion of the Project site clearing, grubbing, tree removals, grading and trenching. In conjunction with eological Monitor(s), the Native American Monitor(s) shall have the authority arily divert, redirect or halt the ground disturbance activities to allow identivaluation, and potential recovery of cultural resources. The developer/permit shall submit a fully executed copy of the agreement to the County Archaeologist compliance with this condition of approval. Upon verification, the Archaeo-clear this condition. This agreement shall not modify any condition of approval on measure.
Responsible Party:	l	Project Owner
Responsible Monitor	ring Party:	Riverside County and Consulting Tribe Representative
Monitoring Phase/ Ti	iming	Prior to and during all initial ground disturbing activities and excavation
Verification Approva	l Party:	Riverside County and Consulting Tribe Representative
MITIGATION MEASUREMM TCR-2: Artifact Disposition. Prior to Grading Permit Final Inspection,, the landown shall relinquish ownership of all cultural resources that are unearthed on the Pr property during any ground-disturbing activities, including previous investigations and Phase III data recovery.Historic Resources – all historic archaeological materials recovered during the archae gical investigations (this includes collections made during an earlier project, su testing of archaeological sites that took place years ago), shall be curated at the We Science Center, a Riverside County curation facility that meets State Resources De ment Office of Historic Preservation Guidelines for the Curation of Archaeological Resources ensuring access and use pursuant to the Guidelines.		quish ownership of all cultural resources that are unearthed on the Project uring any ground-disturbing activities, including previous investigations and/or
		tigations (this includes collections made during an earlier project, such as archaeological sites that took place years ago), shall be curated at the Western enter, a Riverside County curation facility that meets State Resources Depart- ce of Historic Preservation Guidelines for the Curation of Archaeological
	Prehistoric	Resources- One of the following treatments shall be applied:
	incluc future studie sacree rebur the re Repor	rial of the resources on the Project property. The measures for reburial shall de, at least, the following: Measures to protect the reburial area from any e impacts. Reburial shall not occur until all required cataloguing, analysis and es have been completed on the cultural resources, with an exception that d items, burial goods and Native American human remains are excluded. Any ial processes shall be culturally appropriate. Listing of contents and location of eburial shall be included in the confidential Phase IV Report. The Phase IV rt shall be filed with the County under a confidential cover and not subject to a c Records Request.
	curate	urial is not agreed upon by the Consulting Tribes, then the resources shall be ed at a culturally appropriate manner at the Western Science Center, a River- County curation facility that meets State Resources Department Office of

Cultural and Tribal Cu	Itural Reso	ources
	ing ac shall fees r from recei Coun	ric Preservation Guidelines for the Curation of Archaeological Resources ensur- ccess and use pursuant to the Guidelines. The collection and associated records be transferred, including title, and are to be accompanied by payment of the necessary for permanent curation. Evidence of curation in the form of a letter the curation facility stating that subject archaeological materials have been ved and that all fees have been paid, shall be provided by the landowner to the ty. There shall be no destructive or invasive testing on sacred items, burial s and Native American human remains.
Responsible Party:		Project Owner
Responsible Monitori	ng Party:	Riverside County, BLM, and Consulting Tribe Representative
Monitoring Phase/Tin	ning:	Prior to Grading Permit Final Inspection
Verification Approval	Party:	Riverside County and BLM
Hazards and Hazardo	us Materia	ils
	RE work is involved, contractor(s) shall be OSHA HAZWOPER-trained in accordance wit standard 29CFR1910.120 and hold a current certification. The Applicant shall prepare UXO Identification, Training, and Reporting Plan to properly train all site workers in th recognition, avoidance and reporting of military waste debris and ordnance. The Appl cant shall submit the plan to the County and BLM for review and approval prior to th start of construction. The plan shall contain, at a minimum, the following:	
	the trai	iption of the training program outline and materials, and the qualifications of ners; and
		cation of available trained experts that will respond to notification of discovery ordnance (unexploded or not); and
	screenii	lan to recover and remove discovered ordnance, and complete additional field ng, possibly including geophysical surveys to investigate adjacent areas for , near surface or buried ordnance in all proposed land disturbance areas.

Responsible Party:	Project Owner
Responsible Monitoring Party:	Riverside County and BLM
Monitoring Phase/Timing:	Prior to construction
Verification Approval Party:	Riverside County and BLM

MITIGATIONMM HAZ-2: Worker Environmental Awareness Program. The WEAP prepared for the
Project shall include a personal protective equipment (PPE) program, an Emergency
Action Plan (EAP), and an Injury and Illness Prevention Program (IIPP) to address health
and safety issues associated with normal and unusual (emergency) conditions. It will be
reviewed and approved by the County and BLM prior to construction. Construction-
related safety programs and procedures shall include a respiratory protection program,
among other things. Construction Plan documents shall relate at least to the following:

- Environmental health and safety training (including, but not limited, to training on the hazards of Valley Fever, including the symptoms, proper work procedures, how to use PPE, and informing supervisor of suspected symptoms of work-related Valley Fever)
- Site security measures
- Site first aid training
- Site fire protection and extinguisher maintenance, guidance, and documentation

Hazards and Hazardo	us Materials
	Furnishing and servicing of sanitary facilities records
	Trash collection and disposal
	 Disposal of hazardous materials and waste guidance in accordance with local, state and federal regulations
Responsible Party:	Project Owner
Responsible Monitori	ng Party: Riverside County and BLM
Monitoring Phase/Tim	ing: During construction, operation, maintenance, and decommissioning
Verification Approval	Party: Riverside County and BLM
MEASURE	MM HAZ-3: Soil Management Plan. Prior to issuance of demolition or grading permits the Applicant shall prepare a Soil Management Plan (SMP) to guide activities during construction that will disturb potentially pesticide or petroleum hydrocarbon contaminate soils to ensure that potentially contaminated soils are identified, characterized, removed and disposed of properly. The SMP shall be submitted to the County and BLM for approva prior to Project construction. The purpose of the SMP is to establish appropriate management practices for handling impacted soil or other materials that may be encountered during construction activities.
	The SMP shall be implemented during Project construction and shall include, but sha not be limited to, the following components:
	Description of soil testing, which shall include (but not be limited to) the collection of shallow soil samples and analyses for pesticides to verify presence or absence of unknown pesticide soil contamination and the collection of soil samples at locations a and near onsite current and former fuel ASTs for analyses for petroleum hydrocarbons This soil profiling shall be performed prior to initiation of Project construction.
	Protocols for sampling of in-place soil to facilitate the profiling of the soil for appropriate off-site disposal or reuse, and for construction worker safety, dust mitigatio during demolition and construction and potential exposure of contaminated soil t future users of the site prior to Project construction.
	 Procedures to be undertaken in the event that contamination is identified above actio levels or previously unknown contamination is discovered prior to or during Projec construction.
	Sampling and laboratory analyses of any excess soil requiring disposal at an appropriate off-site waste disposal facility.
	Procedures and protocols for the safe storage, stockpiling, and disposal of any contam nated soils.
	If contaminants are identified at concentrations exceeding applicable screening levels the Applicant shall submit the SMP sampling results to the County DEH and BLM an obtain oversight from the appropriate regulatory agencies. Copies of the approved SM shall be kept at the Project site.
	Any contaminated soils identified by testing conducted in compliance with the SMP an found in concentrations above established thresholds shall be removed and disposed or according to California Hazardous Waste Regulations. Contaminated soil excavated fror the site shall be hauled off-site and disposed of at a licensed hazardous materials disposa site.
Responsible Party:	Project Owner

Responsible Monitoring Party: Riverside County and BLM

Hazards and Hazardo	ous Materi	als
Monitoring Phase/Timing:		Prior to issuance of demolition or grading permits
Verification Approval Party:		Riverside County and BLM
Hydrology and Wate	r Quality	
MITIGATION MM HW MEASURE prior to Board, t stormwa other po in the St of water Project a porary a features disturba outline s Practice and posi • Vicinit cating featur s Site D ding, d		Q-1: Drainage Erosion and Sedimentation Control Plan (DESCP). At least 60 days ite mobilization, the Applicant shall submit to the Regional Water Quality Control the BLM, and Riverside County for review and approval a DESCP for managing ter during Project construction and operations and to prevent sediment or any lutants from moving offsite and into receiving waters. The DESCP can be included ormwater Pollution Prevention Plan (SWPPP) and must ensure proper protection quality and soil resources, address disturbed soil stabilization treatments in the rea for both road and non-road surfaces, and identify all methods used for temned final stabilization of inactive areas. The plan must also cover all linear Project such as the proposed gen-tie line and any other Project component subject to nee. The DESCP shall contain, at a minimum, the elements presented below that te management activities and erosion and sediment-control Best Management (BMPs) to be implemented during site mobilization, excavation, construction, construction (operating) activities.
		<i>Map.</i> A map(s), at a minimum scale 1 inch to 500 feet, shall be provided indi- the location of all Project elements with depictions of all significant geographic es including swales, storm drains, drainage concentration points and sensitive <i>dineation</i> . All areas subject to soil disturbance (including mowing, grubbing, gra- xcavation or any other soil disturbing activity) for the Project shall be delineated be boundary lines of all construction areas and the location of all existing and
	 Clearing cleared slopes, tions, cleared slopes, tions, cleared shall all propos Clearing quantities such estimation of the slope s	and Grading Plans. The DESCP shall provide a delineation of all areas to be d of vegetation and areas to be preserved. The plan shall provide elevations, d locations, and extent of all proposed grading as shown by contours, cross sec- prother means. The locations of any disposal areas, fills, or other special features also be shown. Existing and proposed topography shall be illustrated by tying in sed contours with existing topography. In g and Grading Narrative. The DESCP shall include a table with the estimated ties of material excavated or filled for the site and all Project elements, whether excavation or fill is temporary or permanent, and the amount of such material to ported or exported. All areas subject to soil disturbance shall be included in the
	constru palliati advers porary consist ments. and co posed	<i>a Control</i> . The plan shall address treatments to be used on exposed soil during uction and operation including specifically identifying all chemical-based dust ves, soil bonding, and weighting agents appropriate for use that would not cause e effects to vegetation. BMPs shall include measures designed to provide tem- stabilization of inactive disturbed areas and will be applied as soon as possible tent with SCAQMD (Rule 403) and SWRCB Construction General Permit require- . The timing of suppressant or binder application will occur as soon as possible nsistent with dust and stormwater permit requirements. Any soil stabilizers pro- shall be approved for use by the Project's Restoration Specialist to ensure that oducts shall not impede restoration goals.

- Best Management Practices Plan. The DESCP shall identify on the topographic site map(s) the location of the site specific BMPs to be employed during each phase of construction (initial grading, Project element excavation and construction, and final grading/ stabilization). BMPs shall include measures designed to control dust, stabilize construction access roads and entrances, and control stormwater runoff and sediment transport consistent with SCAQMD (Rule 403) and SWRCB Construction General Permit requirements.
- Best Management Practices Narrative. The DESCP shall show the location, timing, and maintenance schedule of all erosion- and sediment-control BMPs to be used prior to initial grading, during excavations and construction, final grading/stabilization, and operation. Separate BMP implementation schedules shall be provided for each Project element for each phase of construction. The maintenance schedule shall include post-construction maintenance of structural-control BMPs, or a statement provided about when such information would be available.
- The DESCP shall be prepared, stamped, and sealed by a professional engineer or Qualified SWPPP Developer. The DESCP shall include copies of recommendations, conditions, and provisions from the Regional Board and/or BLM.
- The DESCP may be part of the SWPPP and shall be kept onsite, kept updated, and readily available on request. The DESCP and SWPPP must demonstrate compliance with other water quality permits (WDR and LSAA), which may have restrictions on types of erosion or sedimentation control materials used. SWPPP inspection reporting will be consistent with the requirements of the SWRCB Construction General Permit.

Responsible Party:		Project Owner	
Responsible Monitoring Party:		Riverside County and BLM	
Monitoring Phase/Ti	ming:	At least 60 days prior to site mobilization	
Verification Approval Party:		Riverside County and BLM	
MITIGATION MEASURE	Applicant evaluation consistent requireme	P-2 : Septic System Review and Permitting. Before the start of construction, the shall submit to Riverside County Department of Environmental Health an of the Project septic system to ensure that the proposed use of the system is twith federal, state, and local requirements for septic system design, including ents for percolation, vertical distance from the groundwater table, and setback nearest groundwater well.	
Responsible Party:		Project Owner	
Responsible Monitor	ing Party:	Riverside County DEH	
Monitoring Phase/Ti	ming:	Prior to start of construction	
Verification Approval Party:		Riverside County DEH	
MITIGATION MEASURE	Project, to water Bas operated Plan (CRV operated groundwa The CRWS	Q-3 : Palo Verde Mesa Groundwater Basin (PVMGB) Protection. If water for the be obtained from on- or off-site well(s) within the Chuckwalla Valley Ground- sin (CVGB), is extracted from on- or off-site well(s) that is/are owned and/or by the Applicant, the Applicant shall develop a Colorado River Water Supply VSP) to monitor groundwater extractions from the Applicant owned and/or on- or off-site well(s) to prevent impacts to the adjacent PVMGB related to iter extraction below the Colorado River Accounting Surface. SP shall be submitted to the U.S. Bureau of Reclamation and BLM for review and at least 60 days prior to the initiation of construction. No pumping of ground-	

water below the accounting surface shall occur. A copy of the CRWSP shall also be submitted to the Metropolitan Water District of Southern California for review and comment.

- (a) The CRWSP shall describe groundwater monitoring activities and quarterly data reports to be closely reviewed for depth to groundwater information, and proximity of the depth of Project-related groundwater pumping to the Colorado River Accounting Surface. To ensure that Project-related groundwater pumping does not draw water from below the accounting surface, the Applicant shall implement water conservation activities, including cessation of pumping, to reduce the amount of water withdrawn from on- or off-site well(s) that is/are owned and/or operated by the Applicant.
 - (i) The Colorado River Accounting Surface is at an elevation between approximately 238 and 240 feet above mean sea level (amsl) in the Chuckwalla Valley (Argonne, 2013). Groundwater elevation in the Project area is approximately 489 feet amsl as of the first quarter of 2024. The numerical groundwater model developed for the Project Water Supply Assessment (GSI, 2024; discussed below) included estimates of the total cone of depression considering cumulative drawdown from all potential pumping in the CVGB, including the Project, for the life of the Project through the decommissioning phase. The estimated drawdown at the Project well after the planned 2-year construction period was less than 2 feet. The temporary drawdown at the well during pumping, however, would be greater.
 - (ii) Assuming a conservatively-large temporary drawdown of 100 feet at the Project well (up to 80 feet of temporary drawdown has been recorded from a wellused for construction of a nearby solar project) during peak water demand during Project construction, the water levels in the Project well would be at least 150 feet above the Colorado River Accounting Surface. The water levels within the Project well would be monitored as part of the GMRMP (MM HWQ-4) per the DRECP LUPA Conservation and Management Action (CMA) Soil and Water (SW) 24. MM HWQ-3 ensures that the Project will not extract water from below the Accounting Surface, as it requires that pumping from Project wells be decreased or stopped well before water levels reached the Colorado River Accounting Surface.

		Accounting surface.	
Responsible Party: Responsible Monitoring Party: Monitoring Phase/Timing:		Project Owner	
		United States Bureau of Reclamation and BLM	
		60 days prior to the initiation of construction and any time groundwater withdrawal will likely reach Accounting Surface during life of Project	
Verification Approval Party:		United States Bureau of Reclamation and BLM	
MITIGATION MEASURE	the Project (on site of approved County an not adver and degra Riverside water Sus	Q-4: Groundwater Monitoring, Reporting, and Mitigation Plan (GMRMP). Before ct uses groundwater pumped from any Applicant owned and/or operated well r off site) that extracts water from the CVGB, the Applicant shall retain a BLM- qualified hydrogeologist to develop a GMRMP, in coordination with Riverside ad BLM, to ensure that groundwater wells surrounding Project supply well(s) are sely affected by Project activities, i.e., chronic lowering of groundwater levels adation of groundwater quality. The Applicant shall submit the GMRMP to County and BLM for review and approval. Additionally, although no Ground- stainability Agencies (GSAs) have been established for the CVGB, in the event agencies have been established when the GMRMP is developed, the Applicant	

also shall submit the GMRMP to those GSAs. The Applicant shall implement the approved GMRMP throughout any Project phase that pumps groundwater for consumptive use.

The GMRMP shall provide a detailed methodology for monitoring site groundwater levels and comparisons for levels within the CVGB including identification of the closest private wells to the Project's well(s). Groundwater level data from wells at adjacent and nearby solar facilities and other Projects on BLM-administered public lands shall be provided by the BLM for review and comparison, to the extent available to the Applicant. Monitoring shall be performed during pre-construction, construction, and operation of the Project, to establish pre-construction and Project-related groundwater level and water quality trends that can be guantitatively compared against observed and simulated trends near the Project's pumping well(s) and near potentially impacted existing wells. The GMRMP shall include a schedule for submittal of guarterly data reports by the Applicant to the GMRMP designated agencies and the GSA(s) (if established), for the duration of the construction period. These quarterly data reports shall be prepared and submitted for review and shall include water level monitoring data and effect on the nearest off-site private wells. The designated agencies shall determine whether groundwater wells surrounding the Project supply well(s) are adversely affected (i.e., chronic lowering of groundwater levels and degradation of groundwater quality) by Project activities and, if so, shall require one or more of the following:

- Cessation or reduction of pumping at the Project well(s) until groundwater levels return to levels that allow nearby wells to resume pre-Project pumping levels;
- Compensation for whatever additional equipment is necessary to lower nearby pumps to levels that can adequately continue pumping;
- Compensation to repair or replace wells found to be damaged or inoperable due to lowered groundwater levels; or
- Compensation for increased energy cost due to Project-related well drawdown.

After the completion of construction, the Applicant and the BLM shall jointly evaluate the effectiveness of the GMRMP and determine if monitoring and reporting frequencies or procedures should be revised or eliminated.

Responsible Party: Responsible Monitoring Party: Monitoring Phase/Timing: Verification Approval Party:		Project OwnerRiverside County and BLMPrior to using any water pumped from any Applicant owned and/or operated well that extracts water from the CVGBRiverside County and BLM			
			MITIGATION MEASURE	County ar	Q-5 : Project Drainage Plan. The Applicant shall provide the RWQCB, Riverside nd BLM with a drainage plan for review and approval prior to construction, which the following information:
				Hydrol	ogic assessment of flood discharges affecting each parcel.
				hydrau and 10 Project depth	ailed on-site hydraulic analysis utilizing FLO 2D or similar two-dimensional alic model which models pre- and post-development flood conditions for the 10- and post-development model must include all proposed t features, contours, and drainage improvements. Graphical output must include and velocity mapping as well as mapping which graphically shows the changes an parameters between the pre- and post-development conditions.
	ainage Plan shall show the location of all watercourses, drainage concentration and drainage ditches as they enter, cross, and exit the site. It shall include pre-				

development and post-development peak flow estimates. It shall include hydraulic calculations to determine flood conditions, floodplain limits, flood depths and velocities. It shall show the relationship of drainage and flood features to the features of the Project, including buildings, fences, substations, access roads, culverts, linear features, and panel supports, demonstrating adequate design to protect from flooding, erosion and scour, and to do so without adversely affecting adjacent property, inducing erosion, or concentrating or diverting flows.

- The Plan shall show how drainage will be conveyed through the site without adversely affecting other property, either through increased flood hazard or increased potential for scour and erosion. Proposed fencing shall allow runoff to traverse the Project site unencumbered, as feasible. The Plan shall include an assessment of existing diversion berms and channels around parcel perimeters and the magnitude and frequency of flood that would be diverted by these existing features, and the probable integrity of these features to withstand flows. It shall show how those that are on the Project site will be affected by grading. It shall include an assessment of flows approaching proposed perimeter fences, whether or not adjacent to existing berms, and make design recommendations to avoid flow diversions by these fences while taking into account relevant biological mitigation measures. Design recommendations may include creating fence openings large enough to allow the passage of debris-laden flows without the potential for diversions to other property.
- The Plan shall have detailed design of flood retention features necessary to avoid any increase in downstream flood peak flow rates.
- Drainage of Project Site Narrative The Plan shall include a narrative of the measures necessary to protect the site and Project features from flooding, erosion and sedimentation, and measures taken to prevent Project-induced erosion and flooding of adjacent property.

Responsible Party:		Project Owner
Responsible Monitoring Party: Monitoring Phase/Timing:		Riverside County and BLM Prior to construction
MITIGATION MEASURE	buildings protected not practi the higher Solar pan level. All s towers, sl event. Th within a S and air co	Q-6: Flood Protection. The O&M Building, BESS switchyard, and all other Project shall either be situated outside of the 100-year floodplain or sufficiently against dislodgement by flooding where placement outside the floodplain is ical. Flood protection shall consist of elevating the structures on fill to at least st anticipated adjacent flood level as measured from a horizontal stow position. els shall be situated at least one foot above the highest anticipated local flood structures using posts or poles for foundations, including transmission poles or hall be designed to protect against substantial scour from the 100-year flood e Project must comply with Riverside County Ordinance No. 458 for projects pecial Flood Hazard Area or floodplain: electrical, heating, ventilation, plumbing, onditioning equipment and other service facilities must be designed or located t water from entering or accumulating within the components during flooding.
Responsible Party:		Project Owner
Responsible Monitoring Party:		Riverside County
· · · · · · · · · · · · · · · · · · ·		

Hydrology and Wate	er Quality		
Verification Approva	al Party: Riverside County		
Noise and Vibration			
MITIGATION MEASURE	APM NOISE-1: Construction Timing. Applicant will avoid or minimize use of any impact hammer for pile driving or other equipment similarly capable of producing disruptive noise during construction activities within a one-mile radius from the residential parcel on the northeast corner of around the Lake Tamarisk Desert Resort community during the winter months of highest residency (November 1 to March 31). If based on the final construction schedule, use of such equipment is necessary within this geographic area during the aforementioned time period, the Applicant will avoid or minimize this construction activity prior to 7:00 a.m. and after 6:00 p.m. The Applicant will also avoid nighttime equipment deliveries between 10:00 p.m. and 7:00 a.m.		
Responsible Party:	Project Owner		
Responsible Monito	ring Party: Riverside County and BLM		
Monitoring Phase/Ti	iming: During construction		
Verification Approva	al Party: Riverside County and BLM		
MITIGATION MEASURE	MM N-1 : Construction Restrictions. Heavy equipment operation, noisy construction work relating to any Project features onsite, and truck trips associated with materials and equipment deliveries shall be restricted to the times delineated below, unless a special permit has been issued by the County of Riverside: during June through September, between 6 a.m. to 6 p.m.; and during October through May, between 7:00 a.m. to 6:00 p.m. Haul truck engines and other engines powering fixed or mobile construction equipment shall be equipped with adequate mufflers. Haul trucks shall be operated in accordance with posted speed limits. Truck engine exhaust brake use shall be limited to emergencies. The construction contractor shall locate equipment staging in areas to create the greatest distance between construction-related noise sources and noise sensitive receivers nearest the Project site during Project construction. Where feasible, the construction contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receivers nearest the Project speech from construction workers shall be audible at noise-sensitive properties.		
Responsible Party:	Project Owner		
Responsible Monito	ring Party: Riverside County and BLM		
Monitoring Phase/Ti	iming: During construction		
Verification Approva	al Party: Riverside County and BLM		
MITIGATION MEASURE	MM N-2: Public Notification Process. At least 15 days prior to the start of ground disturbance, the Project owner shall notify all residents within one mile of the Project site and the linear facilities, by mail or by other effective means, of the commencement of Project construction. At the same time, the Project owner shall establish a telephone number for use by the public to report any undesirable noise conditions associated with the construction and operation of the Project. If the telephone is not staffed 24 hours a day, the Project owner shall include an automatic answering feature, with date and time stamp recording, to answer calls when the phone is unattended. This telephone number shall be posted at the Project site during construction where it is visible to passersby. This		

Noise and Vibration	
	telephone number shall be maintained until the Project has been operational for at least one year.
Responsible Party:	Project Owner
Responsible Monito	ng Party: Riverside County and BLM
Monitoring Phase/Ti	ing: At least 15 days prior to ground disturbance
Verification Approva	Party: Riverside County and BLM
MITIGATION MEASURE	MM N-3: Noise Complaint Process. Throughout the construction and operation of the Project, the Project owner shall document, investigate, evaluate, and attempt to resolve all Project-related noise complaints. The Project owner or authorized agent shall:
	(a) Use a Noise Complaint Resolution Form, or other documentation procedure accept- able to the County, to record and report the Project owner's response to resolving each noise complaint;
	(b) Attempt to contact the person(s) making the noise complaint within 24 hours;
	(c) Conduct an investigation to determine the source of noise in the complaint;
	(d) If the noise is Project-related, take all feasible measures to reduce the source of the noise; and
	(e) Submit a report to the County documenting the complaint and actions taken. The report shall include: a complaint summary, including the final results of noise reduction efforts and, if obtainable, a signed statement by the complainant stating that the noise problem has been resolved to the complainant's satisfaction.
Responsible Party:	Project Owner
Responsible Monito	ng Party: Riverside County and BLM
Monitoring Phase/Ti	ing: During construction and operation
Verification Approva	Party: Riverside County and BLM
Paleontological Reso	rces
MITIGATION MEASURE	 MM PR-1: Paleontological Resource Monitoring and Mitigation Plan (PRMP). Prior to the start of any Project-related construction activities, the Applicant shall retain a County-and BLM-approved paleontologist (Project Paleontologist) to prepare and implement a project-specific PRMP to be approved by the County and BLM. The Project Paleontologist shall hold a BLM-issued Paleontological Resource Use Permit and be responsible for implementing all the paleontological conditions of approval and for using qualified paleontologists to assist in work and field monitoring. At a minimum, information to be contained in the PRMP, in addition to other information required under industry standard, Society of Vertebrate Paleontologist and qualified paleontological monitors to be employed for grading operations monitoring. Identification (name) and qualifications of the Project Paleontologist and qualified paleontological monitors to be employed for grading operations monitoring. Identification of personnel with authority and responsibility to temporarily halt or divert grading equipment to allow for recovery of large specimens. Description of the project site and planned earthwork and excavation. A site-specific plan and map prepared by the Project Paleontologist which identifies construction impact areas with sediments of High (PFYC 4) and Moderate (PFYC 3a) sensitivity for encountering significant paleontological resources and the approximate

Paleontological Resources

depths at which those resources are likely to be encountered for each Project component.

- The PRMP shall require the qualified paleontological monitor(s) to monitor all construction-related earth-moving activities in sediments determined to have a High (PFYC 4) sensitivity.
- The PRMP shall define monitoring procedures and methodology and shall specify that sediments of Moderate (PFYC 3a) or undetermined sensitivity shall be monitored on a part-time basis (as determined by the Project Paleontologist). Sediments with very low or low potential will not require paleontological monitoring (PFYC 1 and 2).
- The PRMP shall detail methods of recovery, preparation, and analysis of specimens, the final curation location of specimens at the repository identified in the BLM-issued Paleontological Resource Use Permit, data analysis, and reporting. Where possible, recovery is preferred over avoidance in order to mitigate the potential for looting of paleontological resources.
- The PRMP shall specify that all paleontological work undertaken by the Applicant on public lands administered by BLM shall be carried out by qualified, permitted paleontologists with the appropriate current BLM Paleontological Resources Use Permit.
- Identification of personnel with authority and responsibility to temporarily halt or divert ground-disturbance activities to allow for recovery of large specimens.

The PRMP shall be submitted to the County and BLM for review and approval 60 days prior to start of Project construction. The PRMP must be approved by the County and BLM prior to the Notice To Proceed.

Responsible Party:		Project Owner
Responsible Monitoring Party:		Riverside County and BLM
Monitoring Phase/Ti	ming:	Prior to the start of any project-related construction activities
Verification Approva	l Party:	Riverside County and BLM
MITIGATION MEASURE	Project-re developed ter paleon and the le shall also tological to bined with	: Worker Environmental Awareness Program (WEAP). Prior to the start of lated construction activities, a paleontological component to the WEAP shall be d by the Project Paleontologist. The WEAP shall address the potential to encoun- tological resources in the field, the sensitivity and importance of these resources, egal obligations to preserve and protect such resources. The training program include the set of reporting procedures that workers are to follow if paleon- resources are encountered during Project activities. The WEAP may be com- n other environmental training programs for the Project. All field personnel will /EAP training on paleontological resources prior to Project-related construction
Responsible Party:		Project Owner
Responsible Monitoring Party:		Riverside County and BLM
Monitoring Phase/Timing:		Prior to the start of any project-related construction activities
Verification Approva	l Party:	Riverside County and BLM
MITIGATION MEASURE	monitorin underlain	: Paleontological Monitoring and Fossil Recovery . The PRMP shall identify g frequency and intensity of all areas of the Project site, particularly in areas by geologic units assigned paleontological sensitivity of High (PFYC 4) or e (PFYC 3a). Monitoring will entail the visual inspection of excavated or graded

Paleontological Resources

areas and trench sidewalls. If the Project Paleontologist determines full-time monitoring is no longer warranted, based on the geologic conditions at depth, he or she may recommend to the BLM Authorized Officer that monitoring be reduced or cease entirely.

In the event that a paleontological resource is discovered, the paleontological monitor will have the authority to temporarily divert the construction equipment around the find until it is assessed for scientific significance and, if appropriate, collected. If the resource is determined to be of scientific significance, the Project Paleontologist shall complete the following:

- Salvage of Fossils. If fossils are discovered, all work in the immediate vicinity shall be halted to allow the paleontological monitor, and/or Project Paleontologist to evaluate the discovery and determine if the fossil may be considered significant. If the fossils are determined to be potentially significant, the Project Paleontologist (or paleontological monitor) will recover them following standard field procedures for collecting paleontological as outlined in the PRMP prepared for the Project. The Project Paleontologist shall have the authority to temporarily direct, divert or halt construction activity to ensure that the potentially significant fossil(s) can be removed in a safe and timely manner.
- Fossil Preparation and Curation. The museum that has agreed to accept fossils that may be discovered during Project-related excavations will be identified on the Pale-ontological Resources Use Permit held by the Project Paleontologist and in the PRMP. Upon completion of Project ground-disturbing activities, all significant fossils collected shall be prepared in a properly equipped laboratory to a point ready for curation. Preparation may include the removal of excess matrix from fossil materials and stabilizing or repairing specimens. During preparation and inventory, the fossils specimens shall be identified to the lowest taxonomic level practical prior to curation at an accredited museum. The fossil specimens must be delivered to the County- and BLM-approved repository (identified on the permit and in the PRMP) and receipt(s) of collections submitted to the County and BLM no later than 60 days after all ground-disturbing activities are completed.

	uistuib	
Responsible Party:		Project Owner
Responsible Monitor	ing Party:	Riverside County and BLM
Monitoring Phase/Tir	ming:	During construction
Verification Approva	l Party:	Riverside County and BLM
MITIGATION MEASURE	preparation Paleontol report shat fossil mat the field; into the p Paleontol The report sible for t appropriat Center, Sa	E: Paleontological Resources Monitoring Report. The Applicant shall ensure on of a paleontological resource mitigation and monitoring report by the Project ogist following completion of ground-disturbing activities. The contents of the all include, but not be limited to, a description and inventory list of recovered erials (if any); a map showing the location of paleontological resources found in determinations of scientific significance; proof of accession of fossil materials pre-approved museum or other repository; and a statement by the Project ogist that Project impacts to paleontological resources have been mitigated. t shall be certified by the professionally qualified Project Paleontologist respon- he content of the report and submitted to the County and BLM. In addition, all te fossil location information shall be submitted to the Western Information an Bernardino County Museum, and Los Angeles County Museum of Natural t a minimum, for incorporation into their Regional Locality Inventories.

Paleontological Reso	ources	
Responsible Monito	ring Party:	Riverside County and BLM
Monitoring Phase/Timing:		Following completion of ground disturbing activities
Verification Approval Party:		Riverside County and BLM
Traffic and Transpor	tation	
MITIGATION MEASURE	owner sha and Rivers by the cor	1 : Construction Traffic Control Plan. Prior to the start of construction, the Project all submit a Construction Traffic Control Plan for review and approval by Caltrans side County for affected roads and intersections that would be directly affected astruction activities and/or would require permits and approvals. The Construcc Control Plan shall include, but not be limited to:
tion warrant, plans for installation of a tempo control during the construction period at the I ally, if conditions warrant, geometry changes Caltrans and Riverside County, and implemen		ple construction projects occur at the same time and conditions at the intersec- rrant, plans for installation of a temporary signal or use of manual intersection during the construction period at the I-10 westbound ramp at SR-177. Addition- conditions warrant, geometry changes shall be considered in coordination with s and Riverside County, and implemented, if necessary, in addition to signaliza- the I-10 westbound ramp and SR-177. These geometry changes could include a cket.
	 The locations and use of flaggers, warning signs, barricades, delineators, boards, etc., according to standard guidelines outlined in the Manual on L Control Devices, the Standard Specifications for Public Works Construction California Joint Utility Traffic Control Manual. 	
		ations of all road or traffic lane segments that would need to be temporarily or disrupted due to construction activities.
	facilitie	ations where guard poles, netting, or similar means to protect transportation s for any construction or conductor installation work requiring the crossing of a reet highway is proposed.
		of continuous traffic breaks operated by the California Highway Patrol on state ys (if necessary).
	during traffic p or othe	nal methods to reduce temporary traffic delays to the maximum extent feasible morning (7:00 a.m. to 9:00 a.m.) and afternoon (4:00 p.m. to 6:00 p.m.) peak periods, or as directed in writing by the affected public agency in encroachment r permits). This should also include feasible ways to reduce construction-related I-10, SR-177, and Kaiser Road during peak traffic periods.
and op		o encourage or provide ridesharing/carpooling opportunities for construction erational workers.
		ration wildlife protection measures, as required in MM BIO-6.
	affected tions ar	b provide written notification to property owners and tenants at properties d by access restrictions to inform them about the timing and duration of obstruc- nd to arrange for alternative access if necessary. The coordination shall occur at he week prior to any blockages.
	the mov be notif and dur that co	b coordinate in advance with emergency service providers to avoid restricting vements of emergency vehicles. Police departments and fire departments shall fied in advance by the Project owner of the proposed locations, nature, timing, ration of any roadway disruptions, and shall be advised of any access restrictions uld impact their effectiveness. At locations where roads will be blocked, pro- shall be ready at all times to accommodate emergency vehicles, such as imme-

Traffic and Transport	tation	
	develop	stopping work for emergency vehicle passage, providing short detours, and ing alternate routes in conjunction with the public agencies.
	with Cal taneous dination (instead	he method to maintaining close coordination, prior to and during construction, trans and Riverside County to minimize cumulative impacts of multiple simul- construction projects affecting shared portions of the circulation system. Coor- with adjacent development projects to spread work shifts into multiple hours of peak hour) or the installation of additional temporary traffic signals or manual portrol officers during peak hours to mitigate the temporary impacts.
Responsible Party:		Project Owner
Responsible Monitor	ing Party:	Caltrans or Riverside County
Monitoring Phase/Tir	ming:	Prior to the start of construction
Verification Approva	l Party:	Caltrans or Riverside County
MITIGATION	MM TRA-2	Provide the second s
MEASURE	features an public ager by the Proj and Rivers access poin regarding t construction photograp	If roadways, sidewalks, medians, curbs, shoulders, or other such transportation re damaged by Project construction activities, as determined by the affected hcy, such damage shall be repaired and restored to their pre-Project condition ject owner. Prior to construction, the Project owner shall confer with Caltrans ide County regarding the roads within 500 feet in each direction of Project nts (where heavy vehicles will leave public roads to reach Project sites) and the roads to be crossed by the proposed gen-tie line. At least 30 days prior to on, or as requested by Riverside County or Caltrans, the Project owner shall h or video record all affected roadway segments and shall provide Riverside d Caltrans with a copy of these images, if requested.
	jurisdiction Project is tr all constru affected ju Project ow provide Riv	of major construction, the Project owner shall coordinate with each affected to confirm whether repairs are required. Any damage demonstrable to the o be repaired to the pre-construction condition within 60 days from the end of action, or on a schedule mutually agreed to by the Project owner and the risdiction. If multiple projects are using the transportation features, the Easley oner shall pay its fair share of the required repairs. the Project owner shall verside County and Caltrans (as applicable) proof when any necessary repairs completed.
Wildfire		
Responsible Party:		Project Owner
Responsible Monitor	ing Party:	Caltrans or Riverside County
Monitoring Phase/Tir	ming:	Prior to the start of construction and at end of major construction
Verification Approva	l Party:	Caltrans or Riverside County
MITIGATION MEASURE	Project ow construction	1: Fire Safety. The Fire Management and Prevention Plan prepared by the ner to ensure the safety of workers and the public and minimize fire risk during on, operation and maintenance, and decommissioning for the Project shall it not be limited to, the following elements:
	clearing, proper ι	res for minimizing potential ignition, including, but not limited to, vegetation parking requirements/restrictions, idling restrictions, smoking restrictions, use of gas-powered equipment, and hot work restrictions. strictions during Red Flag Warnings and High to Extreme Fire Danger days.

Wildfire	
	 All internal combustion engines used at the Project site shall be equipped with spark arrestors. Spark arrestors shall be in good working order.
	Once new access roads have been cut and initial fencing completed, light trucks and cars shall be used only on roads where the roadway is cleared of vegetation. Mufflers on all cars and light trucks shall be maintained in good working order.
	Fire rules shall be posted on the Project bulletin board at the contractor's field office and areas visible to employees.
	 Equipment parking areas and small stationary engine sites shall be cleared of all flam- mable materials.
	Smoking shall be prohibited in all vegetated areas and within 50 feet of combustible materials storage and shall be limited to paved areas or areas cleared of all vegetation.
	 Each construction site (if construction occurs simultaneously at various locations) shall be equipped with fire extinguishers and fire-fighting equipment sufficient to extinguish small fires.
	The Project owner shall coordinate with BLM and RCFD to create a training component for emergency first responders to prepare for specialized emergency incidents that may occur at the Project site, including incidents such as fire or explosion at or with the BESS.
	The plan shall include information about the type of BESS technology on site, potential hazards, and procedures for disconnecting or shutting down the BESS in case of fire or to reduce the chance of fire.
	All construction workers, plant personnel, and maintenance workers visiting the plant and/or transmission lines to perform maintenance activities shall receive training on fire prevention procedures, the proper use of firefighting equipment, and procedures to be followed in the event of a fire. Training records shall be maintained and be available for review by BLM and RCFD. Fire prevention procedures shall be included in the Project's Worker Environmental Awareness Program.
	 Vegetation near all solar panel arrays, ancillary equipment, and access roads shall be controlled through periodic cutting and spraying of weeds, in accordance with the Weed Management Plan.
	BLM and RCFD shall be consulted during plan preparation and fire safety measures recommended by these agencies included in the plan.
	The plan shall list fire prevention procedures and specific emergency response and evacuation measures that shall be required to be followed during emergency situations.
	 All on-site employees shall participate in annual fire prevention and response training exercises with the BLM and RCFD.
	The plan shall list all applicable wildland fire management plans and policies estab- lished by state and local agencies and demonstrate how the Project will comply with these requirements.
	The Project owner shall designate an emergency services coordinator from among the full-time on-site employees who shall perform routine patrols of the site during the fire season equipped with a portable fire extinguisher and communications equipment. The Project owner shall notify BLM and RCFD of the name and contact information of the current emergency services coordinator in the event of any change.

Wildfire	
screen f ple, can heating	monitoring of all major electrical equipment (transformers and inverters) will or unusual operating conditions. Higher than nominal temperatures, for exam- be compared with other operational factors to indicate the potential for over- which under certain conditions could precipitate a fire. Units could then be wn or generation curtailed remotely until corrective actions are taken.
Fires ign	ited on site shall be immediately reported to BLM and RCFD.
	ineering, procurement, and construction contract(s) for the Project shall pro- erence to or clearly state the requirements of this mitigation measure.
-	ject owner must provide the Fire Management and Prevention Plan to BLM for and approval and to RCFD for review and comment before construction.
Responsible Party:	Project Owner
Responsible Monitoring Party:	BLM and RCFD
Monitoring Phase/Timing:	Prior to the start of construction
Verification Approval Party:	BLM and RCFD

L.2. DRECP CONSERVATION AND MANAGEMENT ACTIONS

The Easley Renewable Energy Project will fully comply with all applicable Desert Renewable Energy Conservation Plan (DRECP) Conservation and Management Actions (CMAs) on lands administered by the U.S. Bureau of Land Management (BLM), and the Applicant has stated that the Easley Project will also voluntarily comply with all applicable DRECP CMAs on private lands, the requirements of which have been incorporated into CEQA mitigation measures (see Section L.1).

The applicable DRECP CMAs are listed below, and a detailed BLM Project consistency CMA analysis is provided in EIR Appendix CC.

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Attachment 3, Page 57 of 94 Appendix L. Mitigation Monitoring and Reporting Program

Category	CMA #	CMA Text	Comments
Biological Resou	ırces		
Biological Resources	LUPA-BIO-1	Conduct a habitat assessment (see Glossary of Terms) of Focus and BLM Special Status Species' suitable habitat for all activities and identify and/or delineate the vegetation types, rare alliances, and special features (e.g., Aeolian sand transport resources, Joshua tree, microphyll woodlands, carbon sequestration characteristics, seeps, climate refugia) present using the most current information, data sources, and tools (e.g., DRECP land cover mapping, aerial photos, DRECP species models, and reconnaissance site visits) to identify suitable habitat (see Glossary of Terms) for Focus and BLM Special Status Species. If required by the relevant species-specific CMAs, conduct any subsequent protocol or adequate presence/absence surveys to identify species occupancy status and a more detailed mapping of suitable habitat to inform siting and design considerations. If required by relevant species specific CMAs, conduct analysis of percentage of impacts to suitable habitat and modeled suitable habitat.	Biological resources surveys have been conducted. Survey protocols and the Survey Work Plan for Focus and BLM Special-Status Species were performed in compliance with BLM protocols and coordination, as described in the Biological Resources Technical Report; therefore, the Project would comply with the CMA.
		BLM will not require protocol surveys in sites determined by the designated biologist to be unviable for occupancy of the species, or if baseline studies inferred absence during the current or previous active season.	
		Utilize the most recent and applicable assessment protocols and guidance documents for vegetation types and jurisdictional waters and wetlands that have been approved by BLM, and the appropriate responsible regulatory agencies, as applicable.	
	LUPA-BIO-2	Designated biologist(s) (see Glossary of Terms), will conduct, and oversee where appropriate, activity-specific required biological monitoring during pre- construction, construction, and decommissioning to ensure that avoidance and minimization measures are appropriately implemented and are effective. The appropriate required monitoring will be determined during the environmental analysis and BLM approval process. The designated biologist(s) will submit monitoring reports directly to BLM.	With implementation of mitigation measures to be devel- oped during the NEPA process, the Project will comply with this CMA.
Resource Setback Standards	LUPA-BIO-3	 Resource setbacks (see Glossary of Terms) have been identified to avoid and minimize the adverse effects to specific biological resources. Setbacks are not considered additive and are measured as specified in the applicable CMA. Allowable minor incursions (see Glossary of Terms), as per specific CMAs do not affect the following setback measurement descriptions. Generally, setbacks (which range in distances for different biological resources) for the appropriate resources are measured from: The edge of each of the DRECP vegetation types, including but not limited to those in the riparian or wetland vegetation groups (as defined by alliances within the vegetation type descriptions and mapped based on the vegetation type habitat assessments described in LUPA-BIO-1). 	Except for minor incursion by gen-tie and collector lines and access roadways, the Project would avoid desert dry wash woodland with the required 200-foot buffer under LUPA- BIO-RIPWET-1, as well as all other applicable resource setbacks. The Project will comply with this CMA.

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Category	CMA #	CMA Text	Comments
eacebory		 The edge of the mapped riparian vegetation or the Federal Emergency Management Agency (FEMA) 100-year floodplain, whichever is greater, for the Mojave River. The edge of the vegetation extent for specified focus and BLM sensitive plant species. The edge of suitable habitat or active nest substrates for the appropriate focus and BLM Special-Status Species. 	
Seasonal Restrictions	LUPA-BIO-4	For activities that may impact Focus and BLM Special Status Species, imple- ment all required species-specific seasonal restrictions on pre- construction, construction, operations, and decommissioning activities. Species-specific seasonal restriction dates are described in the applicable CMAs. Alternatively, to avoid a seasonal restriction associated with visual distur- bance, installation of a visual barrier may be evaluated on a case-by-case basis that will result in the breeding, nesting, lambing, fawning, or roosting species not being affected by visual disturbance from construction activities subject to seasonal restriction. The proposed installation and use of a visual barrier to	Seasonal restrictions and requirements are specified in the species-specific CMAs and will be further specified in the required mitigation plans. The Project will comply with this CMA.
Worker Education	LUPA-BIO-5	 avoid a species seasonal restriction will be analyzed in the activity/project-specific environmental analysis. All activities, as determined appropriate on an activity-by-activity basis, will implement a worker education program that meets the approval of the BLM. The program will be carried out during all phases of the project (site mobilization, ground disturbance, grading, construction, operation, closure/decommissioning or project abandonment, and restoration/reclamation activities). The worker education program will provide interpretation for non-English speaking workers, and provide the same instruction for new workers prior to their working on site. As appropriate based on the activity, the program will contain information about: Site-specific biological and nonbiological resources. Information on the legal protection for protected resources and penalties for violation of federal and state laws and administrative sanctions for failure to comply with LUPA CMA requirements intended to protect site-specific biological and nonbiological resources. The required LUPA and project-specific measures for avoiding and minimizing effects during all project phases, including but not limited to resource setbacks, trash, speed limits, etc. Reporting requirements and measures to follow if protected resources are encountered, including potential work stoppage and requirements for notification of the designated biologist. 	With implementation of mitigation measures to be devel- oped during the NEPA process, the Project will comply with this CMA.

DRECP CMAs - L	DRECP CMAs - LUPA Wide			
Category	CMA #	CMA Text	Comments	
Subsidized Predators Standards	LUPA-BIO-6	 Subsidized predator standards, approved by BLM, in coordination with the U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Wildlife (CDFW), will be implemented during all appropriate phases of activities, including but not limited to renewable energy activities, to manage predator food subsidies, water subsidies, and breeding sites including the following: Common Raven management actions will be implemented for all activities to address food and water subsidies and roosting and nesting sites specific to the Common Raven. These include identification of monitoring reporting procedures and requirements; strategies for refuse management; as well as design strategies and passive repellant methods to avoid providing perches, nesting sites, and roosting sites for Common Ravens. The application of water and/or other palliatives for dust abatement in construction areas and during project operations and maintenance will be done with the minimum amount of water necessary to meet safety and air quality standards and in a manner that prevents the formation of puddles, which could attract wildlife and wildlife predators. Following the most recent national policy and guidance, BLM will take actions to not introduce, dispose of, or release any non-native species into areas of native habitat, suitable habitat, and natural or artificial waterways/ water bodies containing native species. 	A Raven Management Plan (POD Appendix J) will detail methods to implement subsidizing predator standards in accordance with LUPA-BIO-6 and will meet requirements established by the USFWS and CDFW. The Project will comply with this CMA.	
		All activity work areas will be kept free of trash and debris. Particular attention will be paid to "micro-trash" (including such small items as screws, nuts, washers, nails, coins, rags, small electrical components, small pieces of plastic, glass or wire, and any debris or trash that is colorful or shiny) and organic waste that may subsidize predators. All trash will be covered, kept in closed containers, or otherwise removed from the project site at the end of each day or at regular intervals prior to periods when workers are not present at the site.		
		In addition to implementing the measures above on activity sites, each activity would provide compensatory mitigation that contributes to LUPA-wide raven management.		
Restoration of Areas Disturbed by Construction Activities But Not Converted by Long Term Disturbance		Where DRECP vegetation types or Focus or BLM Special Status Species habi- tats may be affected by ground- disturbance and/or vegetation removal during pre-construction, construction, operations, and decommissioning related activities but are not converted by long-term (i.e., more than two years of disturbance, see Glossary of Terms) ground disturbance, restore these areas following the standards, approved by BLM authorized officer, following the most recent BLM policies and procedures for the vegetation	The solar and energy storage facility will avoid desert dry wash woodland with a 200-foot buffer. A Revegetation and Salvage Plan (POD Appendix L) will be prepared to address habitat restoration, local genetically appropriate seed, and cacti and crucifixion thorn salvage, as needed. The Project will comply with this CMA.	

DRECP CMAs -	LUPA Wide		
Category	CMA #	CMA Text	Comments
		 community or species habitat disturbance/impacts as appropriate, summarized below: Implement site-specific habitat restoration actions for the areas affected including specifying and using: The appropriate seed (e.g., certified weed-free, native, and locally and genetically appropriate seed) Appropriate soils (e.g., topsoil of the same original type on site or that was previously stored by soil type after being salvaged during excavation and construction activities) Equipment Timing (e.g., appropriate season, sufficient rainfall) Location Success criteria Monitoring measures Contingency measures, relevant for restoration, which includes seeding that follows BLM policy when on BLM administered lands. Salvage and relocate cactus, nolina, and yucca from the site prior to disturbance using BLM protocols. To the maximum extent practicable for short-term disturbed areas, the cactus and yucca will be re-planted back to the original site. Restore and reclaim short-term disturbed areas, including pipelines, transmission projects, staging areas, and short-term construction-related roads immediately, or during the most biologically appropriate season as determined in the activity/project specific environmental analysis and decision following completion of construction activities to reduce the amount of habitat converted at any one time and promote recovery to natural habitats and vegetation as well as climate refugia and ecosystem services such carbon storage. 	
General Closure and Decommissioni ng Standards	LUPA-BIO-8	 All activities that are required to close and decommission the site (e.g., renewable energy activities) will specify and implement project-specific closure and decommissioning actions that meet the approval of BLM, and that at a minimum address the following: Specifying and implementing the methods, timing (e.g., criteria for triggering closure and decommissioning actions), and criteria for success (including quantifiable and measurable criteria). Recontouring of areas that were substantially altered from their original contour or gradient and installing erosion control measures in disturbed areas where potential for erosion exists. Restoring vegetation as well as soil profiles and functions that will support and maintain native plant communities, associated carbon sequestration and nutrient cycling processes, and native wildlife species. 	A draft Closure and Decommissioning Plan has been devel- oped (POD Appendix Y). The decommissioning plan will be finalized when the Project is near the end of its permit. The Project will comply with this CMA.

Category	CMA #	CMA Text	Comments
		 Vegetation restoration actions will identify and use native vegetation composition, native seed composition, and the diversity to values commensurate with the natural ecological setting and climate projections. 	
Water and Wetland Dependent Species Resources	LUPA-BIO-9	 commensurate with the natural ecological setting and climate projections. Implement the following general LUPA CMA for water and wetland dependent resources: Implement construction site standard practices to prevent toxic chemicals, hazardous materials, and other fluids from entering vegetation type streams, washes, and tributary networks through water runoff, erosion, and sediment transport by, at a minimum, implementing the following: On project sites, vehicles and other equipment will be maintained in proper working condition and only stored in designated containment areas where runoff is collected or controlled and that are located outside of streams, washes, and distributary networks to minimize accidental fluids and hazardous materials spills. Hazardous material leaks, spills, or releases will be immediately cleaned and equipment will be repaired upon identification. Removal and disposal of spill and related clean-up materials will occur at an approved off-site landfill. Maintenance and operations vehicles will carry the appropriate equipment and materials to isolate, clean up, and repair any hazardous material leaks, spills, or releases. Activity-specific drainage, erosion, and sedimentation control actions, which meet the approval of BLM and the applicable regulatory agencies, will be carried out during all appropriate phases of the approved project. These actions, as needed, will address measures to ensure the proper protection of water quality, site-specific stormwater and sediment retention, and design of the project to minimize site disturbance, including the following: Identify site-specific surface water runoff patterns and implement measures to prevent excessive and unnatural drainages and to maintain hydrologic function in the event drainages are disturbed. Reduce the amount of area covered by impe	The Applicant will adhere to the specifics in the Hazardous Materials Management and Oil Spill Response Plan (POD Appendix W). Coupled with implementation of mitigation measures to be developed during the NEPA process, the Project will comply with this CMA.

DRECP CMAs - I	DRECP CMAs - LUPA Wide		
Category	CMA #	CMA Text	Comments
		 DRECP water land covers, or sites occupied by aquatic or riparian focus and BLM Special-Status Species due to groundwater or surface water extraction will conduct hydrologic studies during project planning to determine the potential effect of groundwater and surface water extraction on the hydrologic unit. These studies will include both water-shed effects as well as effects on perched, alluvial, and regional aquifers. Projects that are likely to affect groundwater resources in a manner that would result in substantial loss of riparian or wetland communities or habitat for riparian or aquatic Focus and BLM Special-Status Species are prohibited. The use of evaporation ponds for water management will be avoided when the water could harm birds or other terrestrial wildlife due to constituents of concern present in the wastewater (e.g., selenium, hypersalinity, etc.). Evaporation ponds will be configured to minimize attractiveness to shorebirds (e.g., maintain water depths over two feet; maintain steep slopes along edge; enclose evaporation ponds in long-term structures; or obscure evaporation ponds from view using materials that blend in with the natural surroundings). Ramps that allow the egress of wildlife from ponds or other water management infrastructure will be installed. 	
Standard Practices for Weed Management	LUPA-BIO-10	 Consistent with BLM state and national policies and guidance, integrated weed management actions, will be carried out during all phases of activities, as appropriate, and at a minimum will include the following: Thoroughly clean the tires and undercarriage of vehicles entering or reentering the project site to remove potential weeds. Store project vehicles on site in designated areas to minimize the need for multiple washings whenever vehicles re-enter the project site. Properly maintain vehicle wash and inspection stations to minimize the introduction of invasive weeds or subsidy of invasive weeds. Closely monitor the types of materials brought onto the site to avoid the introduction of invasive weeds and non-native species. Reestablish native vegetation quickly on disturbed sites. Monitor and quickly implement control measures to ensure early detection and eradication of weed invasions to avoid the spread of invasive weeds and non-native species on site and to adjacent off-site areas. Use certified weed-free mulch, straw, hay bales, or equivalent fabricated materials for installing sediment barriers. 	With the implementation of mitigation measures to be developed during the NEPA process, and as described in the Vegetation Management Plan (POD Appendix O) and Inte- grated Weed Management Plan (POD Appendix N), the Project will comply with this CMA.
Nuisance Animals and Invasive Species	LUPA-BIO-11	 Implement the following CMAs for controlling nuisance animals and invasive species: No fumigate, treated bait, or other means of poisoning nuisance animals including rodenticides will be used in areas where Focus and BLM Special-Status Species are known or suspected to occur. 	The Applicant will apply to BLM for a Pesticide Use Permit prior to application of any pesticides on the Project site. In addition, with implementation of biological resources miti- gation measures to be developed during the NEPA process,

DRECP CMAs - LUPA Wide				
Category	CMA #	CMA Text	Comments	
		 Manage the use of widely spread herbicides and do not apply herbicides effective against dicotyledonous plants within 1,000 feet from the edge of a 100-year floodplain, stream and wash channels, and riparian vegetation or to soils less than 25 feet from the edge of drains. Exceptions will be made when targeting the base and roots of invasive riparian species such as tamarisk and Arundo donax (giant reed). Manage herbicides consistent with the most current national and California BLM policies. Minimize herbicide, pesticide, and insecticide treatment in areas that have a high risk for groundwater contamination. Clean and dispose of pesticide containers and equipment following professional standards. Avoid use of pesticides and cleaning containers and equipment in or near surface or subsurface water. When near surface or subsurface water, restrict pesticide use to those products labeled safe for use in/near water and safe for aquatic species of animals and plants. 	the Project will control nuisance animals and invasive species and comply with this CMA.	
Noise	LUPA-BIO-12	 For activities that may impact Focus or BLM Special Status Species, implement the following LUPA CMA for noise: To the extent feasible, and determined necessary by BLM to protect Focus and BLM sensitive wildlife species, locate stationary noise sources that exceed background ambient noise levels away from known or likely locations of focus and BLM sensitive wildlife species and their suitable habitat. Implement engineering controls on stationary equipment, buildings, and work areas including sound-insulation and noise enclosures to reduce the average noise level, if the activity will contribute to noise levels above existing background ambient levels. Use noise controls on standard construction equipment including mufflers to reduce noise. 	The only potential stationary noise source would be the bat- tery energy storage system units, depending on technology. IP Easley, LLC, will implement noise control as appropriate with implementation of noise mitigation measures to be developed during the NEPA process. The Project will comply with this CMA.	
General Siting and Design	LUPA-BIO-13	 Implement the following CMA for project siting and design: To the maximum extent practicable site and design projects to avoid impacts to vegetation types, unique plant assemblages, climate refugia as well as occupied habitat and suitable habitat for Focus and BLM Special-Status Species (see "avoid to the maximum extent practicable" in Glossary of Terms). The siting of projects along the edges (i.e. general linkage border) of the biological linkages identified in Appendix D (Figures D-1 and D-2) will be configured (1) to maximize the retention of microphyll woodlands and their constituent vegetation type and inclusion of other physical and biological features conducive to Focus and BLM Special-Status Species' dispersal, and (2) informed by existing available information on modeled focus and BLM Special-Status Species habitat and element occurrence data, mapped delineations of vegetation types, and based on available empirical data, including radio telemetry, wildlife tracking sign, and road-kill information. Additionally, projects will be sited and designed to 	The Easley Project will avoid impacts to unique plant assem- blages and climate refugia to the maximum extent practica- ble. That is, the solar and energy storage facility will avoid desert dry wash woodland with a 200-foot buffer and it is not located within a listed wildlife connectivity corridor. The Project will comply with this CMA.	

Category	CMA #	CMA Text	Comments
	S - LUPA Wide CMA #	 CMA Text maintain the function of focus and BLM Special-Status Species connectivity and their associated habitats in the following linkage and connectivity areas: Within a 5-mile-wide linkage across Interstate 10 centered on Wiley's Well Road to connect the Mule and McCoy mountains (the majority of this linkage is within the Chuckwalla ACEC and Mule-McCoy Linkage ACEC). Within a 3-mile-wide linkage across Interstate 10 to connect the Chuckwalla and Palen mountains. Within a 1.5-mile-wide linkage across Interstate 10 to connect the Chuckwalla Mountains to the Chuckwalla Valley east of Desert Center. The confluence of Milpitas Wash and Colorado River floodplain within 2 miles of California State Route 78 (this linkage is entirely within the Chuckwalla ACEC). Delineate the boundaries of areas to be disturbed using temporary construction fencing and flagging prior to construction and confine disturbances, project vehicles, and equipment to the delineated project areas to protect vegetation types and focus and BLM Special-Status Species. Long-term nighttime lighting on project features will be limited to the minimum necessary for project security, safety, and compliance with Federal Aviation Administration requirements and will avoid the use of constant-burn lighting. 	Comments
		 Long-term nighttime lighting on project features will be limited to the minimum necessary for project security, safety, and compliance with Federal Aviation Administration requirements and will avoid the use of constant-burn lighting. All long-term nighttime lighting will be directed away from riparian and wetland vegetation, occupied habitat, and suitable habitat areas for focus and BLM Special-Status Species. Long-term nighttime lighting will be directed and shielded downward to avoid interference with the navigation of night-migrating birds and to minimize the attraction of insects as well as 	
		 insectivorous birds and bats to project infrastructure. To the maximum extent practicable (see Glossary of Terms), restrict construction activity to the use existing roads, routes, and utility corridors to minimize the number and length/size of new roads, routes, disturbance, laydown, and borrow areas. To the maximum extent practicable (see Glossary of Terms), confine vehicular traffic to designated open routes of travel to and from the project site, and prohibit, within project boundaries, cross-country vehicle and equipment use outside of approved designated work areas to prevent 	
		 unnecessary ground and vegetation disturbance. To the maximum extent practicable (see Glossary of Terms), construction of new roads and/or routes will be avoided within focus and BLM Special-Status Species suitable habitat within identified linkages for those focus and BLM Special-Status Species, unless the new road and/or route is beneficial to minimize net impacts to natural or ecological resources of concern. These areas will have a goal of "no net gain" of project roads and/or routes. 	

DRECP CMAs - LUPA Wide			
Category	CMA #	CMA Text	Comments
		 To the maximum extent practicable (see Glossary of Terms), any new road and/or route considered within focus and BLM Special-Status Species suitable habitat within identified linkages for those focus and BLM Special-Status Species will not be paved so as not to negatively affect the function of identified linkages. Use nontoxic road sealants and soil stabilizing agents. 	
Biology: General Standard Practices	LUPA-BIO-14	 Implement the following general standard practices to protect Focus and BLM Special-Status Species: Feeding of wildlife, leaving of food or trash as an attractive nuisance to wildlife, collection of native plants, or harassing of wildlife on a site is prohibited. Any wildlife encountered during the course of an activity, including construction, operation, and decommissioning will be allowed to leave the area unharmed. Domestic pets are prohibited on sites. This prohibition does not apply to the use of domestic animals (e.g., dogs) that may be used to aid in official and approved monitoring procedures/protocols, or service animals (dogs) under Title II and Title III of the American with Disabilities Act. All construction materials will be visually checked for the presence of wildlife prior to their movement or use. Any wildlife encountered during the course of these inspections will be allowed to leave the construction area unharmed. All steep-walled trenches or excavations used during the project will be covered, except when being actively used, to prevent entrapment of wildlife to exit, or wildlife exclusion fencing will be installed around the trench(s) or excavation(s). Open trenches or other excavations will be inspected by a designated biologist immediately before backfilling, excavation, or other earthwork. Minimize natural vegetation removal through implementation of crush and drive or cut or mow vegetation rather than removing entirely. 	As described in the Plan of Development and with the imple- mentation of biological resources mitigation measures to be developed during the NEPA process, the Project will comply with this CMA.
	LUPA-BIO-15	Use state-of-the-art, as approved by BLM, construction and installation techniques, appropriate for the specific activity/project and site, that mini- mize new site disturbance, soil erosion and deposition, soil compaction, disturbance to topography, and removal of vegetation.	Within the application area, the project has been designed to minimize impacts to sensitive habitat and resources to the extent feasible. With the implementation of biological resources mitigation measures to be developed during the NEPA process, the Project will comply with this CMA.
Activity-Specific Bird and Bat CMAs	LUPA-BIO-16	For activities that may impact focus and BLM sensitive birds, protected by the Endangered Species Act (ESA) and/or Migratory Bird Treaty Act of 1918, and bat species, implement appropriate measures as per the most up-to-date BLM state and national policy and guidance, and data on birds and bats, including but not limited to activity-specific plans and actions. The goal of the activity-	Portions of the 34.5 kV medium voltage collector lines may be installed underground, and project design will reduce effects to birds and bats to the maximum extent feasible. A Project-specific Bird and Bat Conservation Strategy (BBCS),

DRECP CMAs -			
Category	CMA #	CMA Text	Comments
		specific bird and bat actions is to avoid and minimize direct mortality of birds and bats from the construction, operation, maintenance, and decommission- ing of the specific activities.	including a Nesting Bird Management Plan, is included in POD Appendix M. The Project will comply with this CMA.
		 Activity-specific measures to avoid and minimize impacts may include, but are not limited to: Siting and designing activities will avoid high bird and bat movement areas that separate birds and bats from their common nesting and roosting sites, feeding areas, or lakes and rivers. For activities that impact bird and bat Focus and BLM Special-Status Species, during project siting and design, conducting monitoring of bird and bat presence as well as bird and bat use of the project site using the most current survey methods and best procedures available at the time. Reusing or co-locating new transmission facilities and other ancillary facilities with existing facilities and disturbed areas to reduce habitat destruction and avoid additional collision risks. 	
		 Reducing bird and bat collision hazards by utilizing techniques such as unguyed monopole towers or tubular towers. Where the use of guywires is unavoidable, demarcate guywires using the best available methods to minimize avian species strikes. When fencing is necessary, use bird and bat compatible design standards. Using lighting that does not attract birds and bats or their prey to project sites including using non-steady burning lights (red, dual red and white strobe, strobe-like flashing lights) to meet Federal Aviation Administration requirements, using motion or heat sensors and switches to reduce the time when lights are illuminated, using appropriate shielding to reduce horizontal or skyward illumination, and avoiding the use of high-intensity lights (e.g., sodium vapor, quartz, and halogen). Implementing a robust monitoring program to regularly check for wildlife carcasses, document the cause of mortality, and promptly remove the carcasses. Incorporating a bird and bat use and mortality monitoring program during operations using current protocols and best procedures available at time of monitoring. 	
Activity-Specific Bird and Bat CMAs	LUPA-BIO-17	For activities that may result in mortality to Focus and BLM Special–Status bird and bat species, a Bird and Bat Conservation Strategy (BBCS) will be prepared with the goal of assessing operational impacts to bird and bat species and incorporating methods to reduce documented mortality. The BBCS actions for impacts to birds and bats during these activities will be determined by the activity-specific bird and bat operational actions. The strategy shall be	A draft Project-specific Bird and Bat Conservation Strategy (BBCS) is included in POD Appendix M and with implementa- tion of mitigation measures to be developed during the NEPA process, the Project will comply with this CMA.

Category	CMA #	CMA Text		Comments
		 approved by BLM in coordination with USFWS, and CDFW a may include, but is not limited to: Incorporating a bird and bat use and mortality monitorin operations using current protocols and best procedures of monitoring. Activity-specific operational avoidance and minimiza reduce the level of mortality on the populations of bir such as: Use techniques that would minimize attraction of best situations that are mistaken to be or simulate nature bodies of water). Implement operational management techniques that to migratory birds during diurnal and seasonal cycles of heliostats to decrease surface area exposed to avia and deterrent technologies available at the time of comparison. 	ng program during s available at time ation actions that d and bat species, birds to hazardous ural habitats (e.g., c minimize impacts s (e.g., positioning an species). and bat detection	
Other Riparian & Wetland Focus Species: Tehachapi	LUPA-BIO-RIPWET-1	The riparian and wetland DRECP vegetation types and othe Table 17 will be avoided to the maximum extent practicable able minor incursions (see Glossary of Terms for "avoidanc extent practicable" and "minor incursion") with the specifie	er features listed in e, except for allow- e to the maximum	The riparian vegetation type on the Easley site is Sonoran- Coloradan Semi-Desert Wash Woodland (mapped as desert dry wash woodland). It will be avoided to the maximum extent feasible on BLM-administered lands with the excep- tion of allowable minor incursion (see Clossan) of Terms)
Slender Salamander		Riparian and Wetland Vegetation Types or Features	Setback ¹	tion of allowable minor incursion (see Glossary of Terms). Hydrologic function will be maintained. The Project will
		Riparian Vegetation Types ¹		comply with this CMA.
		Madrean Warm Semi-Desert Wash Woodland/Scrub	200 feet	
		Mojavean Semi-Desert Wash Scrub	200 feet	
		Sonoran-Coloradan Semi-Desert Wash Woodland/Scrub	200 feet	
		Southwestern North American Riparian Evergreen and Deciduous	0.25 miles	
		Southwestern North American Riparian/Wash Scrub	0.25 miles	
		Wetland Vegetation Types ¹		
		Arid west freshwater emergent marsh	0.25 miles	
		Californian Warm Temperate Marsh/Seep	0.25 miles	
		Other Riparian and Wetland Related Features		
		Managed Wetlands ²	0.25 miles	
		Mojave River ³	0.25 miles	

Category	CMA #	CMA Text	Comments
		² Setback is from managed wetlands including USFWS Refuges, state man- aged wetlands, and duck clubs in Imperial Valley. See specifications for the Salton Sea below.	
		³ Setback is measured from the edge of mapped riparian or edge of Federal Emergency Management Agency (FEMA) 100 year floodplain of the Mojave River, whichever is further from the center line of the Mojave River channel.	
		⁴ Undifferentiated "Riparian" land cover includes portions of major river courses (Mojave River and Colorado River) within the main channels where riparian vegetation groups were not mapped.	
		For minor incursion (see "minor incursion" in the Glossary of Terms) to the DRECP riparian vegetation types, wetland vegetation types, or encroachments on the setbacks listed in Table 17, the hydrologic function of the avoided riparian or wetland communities will be maintained.	
		Minor incursions in the riparian and wetland vegetation types or other fea- tures including the setbacks listed in Table 17 will occur outside of the avian nesting season, February 1 through August 31, or otherwise determined by BLM, USFWS, and CDFW if the minor incursion(s) is likely to result in impacts to nesting birds.	
BLM Special Status Riparian Bird Species	LUPA-BIO-RIPWET-3	For activities that occur within 0.25 mile of a riparian or wetland DRECP vegetation type and may impact BLM Special Status riparian and wetland birds species, conduct a pre-construction/activity nesting bird survey for BLM Special Status riparian and wetland birds according to agency-approved protocols.	The Applicant will perform a pre-construction/activity nest- ing bird survey and will establish setbacks as necessary. With implementation of mitigation measures to be developed during the NEPA process and the Project-specific Bird and Bat Conservation Strategy (POD Appendix M), the Project
		Based on the results of the nesting bird survey above, setback activities that are likely to impact BLM Special Status riparian and wetland bird species), including but not limited to pre-construction, construction and decommis- sioning, 0.25 miles from active nests of BLM Special-Status riparian and wetland bird species during the breeding season (February 1 through August 31 or otherwise determined by BLM, USFWS, and CDFW). For activities in these areas covered by this provision that occur during the breeding season and that last no longer than one week, nesting bird surveys may need to be repeated, as determined by BLM, in coordination with USFWS and CDFW, as appropriate. No pre-activity nesting bird surveys are necessary for activities occurring outside of the breeding season.	will comply with this CMA.
Bat Species (BAT)	LUPA-BIO-BAT-1	Activities, except wind projects, will not be sited within 500 feet of any occu- pied maternity roost or presumed occupied maternity roost as described below. Refer to CMA DFA-VPL-BIO-BAT-1 for distances within DFAs and VPLs.	No active bat maternity roosts have been identified within the survey area; no caves or similar roosting habitat occurs on or near the site. The Project will comply with this CMA.

DRECP CMAs - L	UPA Wide		
Category	CMA #	CMA Text	Comments
Plant Species (PLANT): Plant Focus and BLM Special Status Species CMAs	LUPA-BIO-PLANT-1	Conduct properly timed protocol surveys in accordance with the BLM's most current (at time of activity) survey protocols for plant Focus and BLM Special Status Species.	Protocol surveys have been completed. The methodologies and results are included in the Biological Resources Technical Report. The Project will comply with this CMA.
Special Vegetation Features (SVF)	LUPA-BIO-SVF-1	For activity-specific NEPA analysis, a map delineating potential sites and habitat assessment of the following special vegetation features is required: Yucca clones, creosote rings, Saguaro cactus, Joshua tree woodland, micro- phyll woodland, Crucifixion thorn stands. BLM guidelines for mapping/ surveying cactus, yuccas, and succulents shall be followed.	Protocol surveys have been performed, which mapped these features as observed within the survey area, including desert dry wash microphyll woodland and creosote rings. No Joshua tree woodland, Saguaro cactus, or crucifixion thorn stands with greater than 100 individuals were found. The survey results and mapping are included in the Biological Resources Technical Report. The Project will comply with this CMA.
	LUPA-BIO-SVF-6	Microphyll woodland: impacts to microphyll woodland (see Glossary of Terms) will be avoided, except for minor incursions (see Glossary of Terms).	The riparian vegetation type on the site is the Sonoran- Coloradan Semi-Desert Wash Woodland (mapped as desert dry wash woodland). Desert dry wash woodland will be avoided with a 200-foot buffer on BLM administered land. The Project will comply with this CMA.
General Vegetation Management (VEG)	LUPA-BIO-VEG-1	Management of cactus, yucca, and other succulents will adhere to current up- to-date BLM policy.	Data collected during field surveys has mapped all cactus, yucca, and succulent occurrences in the Biological Resources Technical Report. The Applicant will comply with this CMA if cactus, yucca, and other succulents are found on the site.
	LUPA-BIO-VEG-2	Promote appropriate levels of dead and downed wood on the ground, outside of campground areas, to provide wildlife habitat, seed beds for vegetation establishment, and reduce soil erosion, as determined appropriate on an activity-specific basis.	The Applicant will allow appropriate levels of wood on the ground taking into consideration that it is a solar project and vegetation must be cleared to a certain extent. The Project will comply with this CMA.
	LUPA-BIO-VEG-3	Allow for the collection of plant material consistent with the maintenance of natural ecosystem processes.	Prior to Project fencing, plant material could be collected as necessary. After fencing, this CMA is not feasible within the solar facility fenceline. The Project will comply with this CMA prior to the fencing of the site.
	LUPA-BIO-VEG-5	All activities will follow applicable BLM state and national regulations and policies for salvage and transplant of cactus, yucca, other succulents, and BLM Sensitive plants.	No BLM sensitive plants have been identified on the site. Data collected during field surveys has been mapped in the Biological Resources Technical Report and includes all cactus, yucca, and succulent occurrences. The Applicant will comply with this CMA if cacti, yucca, and/or other succulents require salvage and transplantation.
	LUPA-BIO-VEG-6	BLM may consider disposal of succulents through public sale, as per current up-to-date state and national policy.	Resource occurs on the project site. BLM may consider disposal of succulents through public sale, as per current up-to-date state and national policy.

DRECP CMAs - LUPA Wide				
Category	CMA #	CMA Text	Comments	
Individual Focus Species (IFS): Desert Tortoise	LUPA-BIO-IFS-1	Activities within desert tortoise linkages, identified in Appendix D, that may have a negative impact on the linkage will require an evaluation, in the environmental document(s), of the effects on the maintenance of long- term viable desert tortoise populations within the affected linkage. The analysis will consider the amount of suitable habitat, including climate refugia, required to ensure long-term viability within each linkage given the linkage's population density, long-term demographic and genetic needs, degree of existing habitat disturbance/impacts, mortality sources, and most up-to-date population viability modeling. Activities that would compromise the long-term viability of a linkage population or the function of the linkage, as determined by the BLM in coordination with USFWS and CDFW, are prohibited and will require reconfiguration or re-siting.	The Easley solar facility footprint is located within the Pinto Wash Desert Tortoise Linkages identified in DRECP Appendix D, but does not overlap the Area of Critical Environmental Concern within the linkage. Impacts to the Pinto Wash Desert Tortoise Linkage will be assessed within the Biological Resources Technical Report and in the Environmental Docu- ments in compliance with the National Environmental Policy Act. Should the BLM, in coordination with USFWS and CDFW, determine the project compromises the long-term viability of a linkage population or the function of the linkage the project will require reconfiguration or re-siting to be located outside of the linkage.	
			The Easley Project 500 kV gen-tie line would cross the Oberon site to connect into the Oberon Substation. Within the Oberon Project site, the 500 kV gen-tie line would cross a 1.5-mile-wide wildlife linkage that connects the Chuckwalla Mountains and the Chuckwalla Valley. Upon completion of construction, the gen-tie line would not impede desert tortoise movement within the linkage. The Project will comply with this CMA.	
	LUPA-BIO-IFS-2	Construction of new roads and/or routes will be avoided to the maximum extent practicable (see Glossary of Terms) within desert tortoise habitat in tortoise conservation areas (TCAs) or tortoise linkages identified in Appendix D, unless the new road and/or route is beneficial to minimize net impacts to natural or ecological resources of concern for desert tortoise. TCAs and identified linkages should have the goal of "no net gain" of road density. Any new road considered within a TCA or identified linkage will not be paved and will be designed and sited in order to minimize the effect to the function of identified linkages or local desert tortoise populations and shall have a maximum speed limit of 25 miles per hour.	The Easley Project 500 kV gen-tie line would cross the Oberon site to connect into the Oberon Substation. Within the Oberon Project site, the Easley gen-tie line would be located within a portion of an identified linkage area and TCA that overlaps with critical habitat. The Easley Project will utilize existing access roads (e.g., BLM Open Route DC379) where feasible for construction of the gen-tie line. The Project will comply with this CMA	
		Roads requiring the installation of long-term desert tortoise exclusion fencing for construction or operation will incorporate wildlife underpasses (e.g., culverts) to reduce population fragmentation		
	LUPA-BIO-IFS-3	All culverts for access roads or other barriers will be designed to allow unre- stricted access by desert tortoises and will be large enough that desert tortoises are unlikely to use them as shelter sites (e.g., 36 inches in diameter or larger). Desert tortoise exclusion fencing may be utilized to direct tortoise use of culverts and other passages.	If culverts are needed in areas where desert tortoise would access, the Applicant will follow this CMA. Desert tortoise fence and shade structures will be utilized during construc- tion. The Project will comply with this CMA.	
	LUPA-BIO-IFS-4	In areas where protocol and clearance surveys are required (see Appendix D), prior to construction or commencement of any long-term activity that is likely to adversely affect desert tortoises, desert tortoise exclusion fencing shall be	Desert tortoise protocol surveys have been performed, desert tortoise fence installation will occur prior to construc-	

tion, and clearance surveys will be conducted after fence installation. The Project will comply with this CMA.

DRECP CMAs	DRECP CMAs - LUPA Wide					
Category	CMA #	CMA Text	Comments			
		 Following installation, long-term desert tortoise exclusion fencing will be inspected for damage quarterly and within 48 hours of a surface flow of water due to a rain event that may damage the fencing. All damage to long-term or short-term desert tortoise exclusion fencing will be immediately blocked to prevent desert tortoise access and repaired within 72 hours. 				
	LUPA-BIO-IFS-5	Following the clearance surveys (see Glossary of Terms) within sites that are fenced with long-term desert tortoise exclusion fencing a designated biologist (see Glossary of Terms) will monitor initial clearing and grading activities to ensure that desert tortoises missed during the initial clearance survey are moved from harm's way.	With implementation of mitigation measures for biological monitoring to be developed during the NEPA process and the specifics in the Project-specific Desert Tortoise Protection and Translocation Plan (POD Appendix I), the Project will comply with this CMA.			
		A designated biologist will inspect construction pipes, culverts, or similar structures: (a) with a diameter greater than 3 inches, (b) stored for one or more nights, (c) less than 8 inches aboveground and (d) within desert tortoise habitat (such as, outside the long-term fenced area), before the materials are moved, buried, or capped.				
		As an alternative, such materials shall be capped before storing outside the fenced area or placing on pipe racks. Pipes stored within the long-term fenced area after completing desert tortoise clearance surveys will not require inspection.				
	LUPA-BIO-IFS-6	When working in areas where protocol or clearance surveys are required (see Appendix D), biological monitoring will occur with any geotechnical boring or geotechnical boring vehicle movement to ensure no desert tortoises are killed or burrows are crushed.	Biological monitoring will occur with any geotechnical boring or geotechnical boring vehicle movement. The Project will comply with this CMA.			
	LUPA-BIO-IFS-7	A designated biologist (see Glossary of Terms) will accompany any geotech- nical testing equipment to ensure no tortoises are killed and no burrows are crushed.	A designated biologist will accompany any geotechnical testing equipment. The Project will comply with this CMA.			
	LUPA-BIO-IFS-8	Inspect the ground under the vehicle for the presence of desert tortoise any time a vehicle or construction equipment is parked in desert tortoise habitat outside of areas fenced with desert tortoise exclusion fencing. If a desert tortoise is seen, it may move on its own. If it does not move within 15 minutes, a designated biologist may remove and relocate the animal to a safe location.	With implementation of mitigation measures to be devel- oped during the NEPA process and the specifics in the Project-specific Desert Tortoise Protection and Translocation Plan, the Project will comply with this CMA.			
	LUPA-BIO-IFS-9	Vehicular traffic will not exceed 15 miles per hour within the areas not cleared by protocol level surveys where desert tortoise may be impacted.	With implementation of mitigation measures to be devel- oped during the NEPA process, the Project will comply with this CMA.			
Bendire's Thrasher	LUPA-BIO-IFS-11	If Bendire's thrasher is present, conduct appropriate activity-specific biolo- gical monitoring (see Glossary of Terms) to ensure that Bendire's thrasher individuals are not directly affected by operations (i.e., mortality or injury, direct impacts on nest, eggs, or fledglings).	Conservation measures to avoid impacts to birds will be implemented during construction and operations. If Bendire's thrasher are observed during clearance surveys and con- struction, the Project will comply with this mitigation CMA.			

DRECP CMAs - LUPA Wide				
Category	CMA #	CMA Text	Comments	
Burrowing Owl	LUPA-BIO-IFS-12	If burrowing owls are present, a designated biologist (see Glossary of Terms) will conduct appropriate activity-specific biological monitoring (see Glossary of Terms) to ensure avoidance of occupied burrows and establishment of the 656 feet (200 meter) setback to sufficiently minimize disturbance during the nesting period on all activity sites, when practical.	Burrowing owls were found during the Easley surveys. With implementation of mitigation measures to be developed during the NEPA process and the Easley Wildlife Protection and Relocation Plan (POD Appendix K), the Project will comply with this CMA.	
	LUPA-BIO-IFS-13	If burrows cannot be avoided on-site, passive burrow exclusion by a desig- nated biologist (see Glossary of Terms) through the use of one-way doors will occur according to the specifications in Appendix D or the most up-to-date agency BLM or CDFW specifications. Before exclusion, there must be verifica- tion that burrows are empty as specified in Appendix D or the most up-to-date BLM or CDFW protocols. Confirmation that the burrow is not currently supporting nesting or fledgling activities is required prior to any burrow exclusions or excavations.	Burrowing owls were found during the Easley surveys. With implementation of mitigation to be developed during the NEPA process and the Easley Wildlife Protection and Relocation Plan (POD Appendix K), the Project will comply with this mitigation CMA.	
	LUPA-BIO-IFS-14	Activity-specific active translocation of burrowing owls may be considered, in coordination with CDFW.	The Easley Project does not propose active translocation of burrowing owls. If burrowing owls are present on the sites, passive relocation may occur in conformance with CDFW Guidelines.	
	LUPA-BIO-IFS-25	Cumulative loss of golden eagle foraging habitat within a 1 to 4 mile radius around active or alternative golden eagle nests (as identified or defined in the most recent USFWS guidance and/or policy) will be limited to less than 20%. See CONS-BIO-IFS-5 for the requirement in Conservation Lands.	The nearest golden eagle nests are located in the Chuckwalla Mtns (south of I-10) and in or near Joshua Tree National Park (northwest and northeast of the site). All these nests have substantial areas of protected foraging habitat surrounding them. The Project would not cause loss of foraging habitat within approximately 2 miles of any nest. It would contribute to some loss of foraging habitat between 2 and 4 miles of nest sites but given the potential area available for foraging, cumulative losses would be less than 20% to the available foraging habitat. The Project will comply with this CMA.	
Compensation	LUPA-BIO- COMP-1	Impacts to biological resources, identified and analyzed in the activity specific environmental document, from activities in the LUPA Decision Area will be compensated using the standard biological resources compensation ratio, except for the biological resources and specific geographic locations listed as compensation ratio exceptions, specifics in CMAs LUPA-BIO-COMP-2 through -4, and previously listed CMAs. Compensation acreage requirements may be fulfilled through non-acquisition (i.e., restoration and enhancement), land acquisition (i.e., preserve), or a combination of these options, depending on the activity specifics and BLM approval/authorization. Compensation for the impacts to desert tortoise critical habitat will be in the same critical habitat unit as the impact (see Table 18). Compensation for impacts to desert tortoise will be in the same recovery unit as the impact. Refer to CMA LUPA-COMP-1 and 2 for the timing requirements for initiation or completion of compensation.	The Applicant will develop a proposed mitigation package to mitigate impacted biological resources that will be reviewed through the NEPA process. This includes any impacts to desert tortoise habitat, designated critical desert tortoise habitat (500 kV gen-tie line), desert tortoise linkage, and desert riparian woodland vegetation (minor incursion). Impacts to the Pinto Wash Desert Tortoise Linkage outside of ACEC designations are mitigated at the standard mitigation ratio. The Project will comply with this CMA.	

Category	CMA #	CMA Tex	t		Comments
		Та	able 18. Compensation Ratios for the Impacts of Activition in the DRECP LUPA Decision Area	es	
		Standard	Biological Resource Compensation Ratio Except	ions	
		1:1	Desert tortoise designated critical habitat	5:1 in same CH unit	
			Mohave ground squirrel (MGS): Key population centers	2:1	
			Flat-tailed horned lizard (FTHL)	RMS	
			Wetlands	2:1	
			Desert riparian woodland vegetation	5:1	
		RMS	= Flat-Tailed Horned Lizard Rangewide Management Stra	ategy	
		mortality estimated calculating replaceme involves n activity ar mentation debts and D) is used Each activ and CDFW specific in determine effects of Compensa mortality protection	pensatory mitigation. The initial compensation fee for bi- impacts will be based on pre-project monitoring of bir bird and bat species mortality from the activity. The ap g the operational bird and bat compensation is based or ent cost for a given resource, a Resource Equivalency An- neasuring the relative loss to a population (debt) resultin the productivity gain (credit) to a population from the of compensatory mitigation actions. The measurement gains (using the same "bird years" metric as described in to estimate the necessary compensation fee. ity, as determined appropriate by BLM in coordination will a sapplicable, will include a monitoring strategy to provide formation on mortality effects on birds and bats in the amount and type of compensation required to the activity, as described above and in detail in Ap ation may also be satisfied by non-restoration actions the risks to birds and bats (e.g., increased predator com of roosting sites from human disturbance). ation will be consistent with the most up to date Departm POI) mitigation policy.	d use and pproach to in the total alysis. This ig from an the imple- t of these Appendix th USFWS, de activity- order to offset the opendix D. nat reduce introl and	of the Project-specific Bird and Bat Conservation Strategy will comply with this CMA.
Air Resources					
Air Resources	LUPA-AIR-1	Applica	es must meet the following requirements: ble National Ambient Air Quality Standards (Section 109) nplementation Plans (Section 110)	I	The Project will comply with this CMA and meet all federal, state, and local laws and regulations.

DRECP CMAs -			•
Category	CMA #	 CMA Text Control of Pollution from Federal Facilities (Section 118) including non-point source Prevention of Significant Deterioration, including visibility impacts to mandatory Federal Class I Areas (Section 160 et seq.) Conformity Analyses and Determinations (Section 176[c]) Apply best management practices on a case-by-case basis Applicable local Air Quality Management Jurisdictions (e.g., 403 SCAQMD) 	Comments
Air Resources	LUPA-AIR-2	Because project authorizations are a federal undertaking, air quality standards for fugitive dust may not exceed local standards and requirements.	With implementation of mitigation measures to be devel- oped during the NEPA process, the Project will comply with this CMA.
Air Resources	LUPA-AIR-3	Where impacts to air quality may be significant under NEPA, requiring analysis through an Environmental Impact Statement, require documentation for activities to include a detailed discussion and analysis of Ambient Air Quality conditions (baseline or existing), National Ambient Air Quality Standards, criteria pollutant nonattainment areas, and potential air quality impacts of the proposed project (including cumulative and indirect impacts and greenhouse gas emissions). This content is necessary to disclose the potential impacts from temporary or cumulative degradation of air quality. The discussion will include a description and estimate of air emissions from potential construction and maintenance activities, and proposed mitigation measures to minimize net PM10 and PM2.5 emissions. The documentation will specify the emission sources by pollutant from mobile sources, stationary sources, and ground disturbance. A Construction Emissions Mitigation Plan will be developed.	With implementation of mitigation measures to be devel- oped during the NEPA process and laid out in the Dust Control Plan (POD Appendix U), and as modeled in the Air Quality Emissions Report (POD Appendix S), the Project will comply with this CMA.
Air Resources	LUPA-AIR-4	 Because fugitive dust is the number one source of PM10 and PM2.5 emissions in the Mojave and Sonoran Deserts, fugitive dust impacts to air quality must be analyzed for all activities/projects requiring an Environmental Impact Statement and Environmental Assessment. The NEPA air quality analysis may include modelling of the sources of PM10 and PM2.5 that occur prior to construction and/or ground disturbance from the activity/project, and show the timing, duration and transport of emissions off site. When utilized, the modeling will also identify how the generation and movement of PM10 and PM2.5 will change during and after construction and/or ground disturbance of the activity/project specific NEPA alternatives. The BLM air resource specialist and Authorizing Officer will determine if modelling is required as part of the NEPA analysis based on estimated types and amounts of emissions. 	With implementation of mitigation measures to be devel- oped during the NEPA process and laid out in the Dust Control Plan (POD Appendix U), and as modeled in the Air Quality Emissions Report (POD Appendix S), the Project will comply with this CMA.
Air Resources	LUPA-AIR-5	A fugitive Dust Control Plan will be developed for all projects where the NEPA analysis shows an impact on air quality from fugitive dust.	With implementation of mitigation measures to be devel- oped during the NEPA process and the Dust Control Plan (POD Appendix U), the Project will comply with this CMA.

DRECP CMAs -	LUPA Wide		
Category	CMA #	CMA Text	Comments
Cultural Resource	s and Tribal Interests		
Cultural Resources and Tribal Interests	LUPA-CUL-3	Identify places of traditional cultural and religious importance to federally recognized Tribes and maintain access to these locations for traditional use.	The intent of this CMA is accomplished through compliance with NEPA, EX13175, EX13007 and all other applicable laws, regulations, and policies. The Project will comply with this CMA.
Cultural Resources and Tribal Interests	LUPA-CUL-4	Design activities to minimize impacts on cultural resources including places of traditional cultural and religious importance to federally recognized Tribes.	The intent of this CMA is accomplished through compliance with NEPA, National Historic Preservation Act (NHPA), EX13175, EX13007 and all other applicable laws, regulations, and policies. The Project will comply with this CMA.
Cultural Resources and Tribal Interests	LUPA-CUL-7	Coordinate with visual resources staff to ensure VRM Classes consider cultural resources and tribal consultation to include landmarks of cultural significance to Native Americans (TCPs, trails, etc.).	The analysis of the VRM Classes will consider all applicable resources in the analysis. The Project will comply with this CMA.
Cultural Resources and Tribal Interests	LUPA-CUL-8	Conduct regular contact and consultation with federally recognized Tribes and individuals, consistent with statute, regulation and policy.	This is an agency requirement so would be fulfilled by BLM through compliance with NEPA, Section 106 of the NHPA, EX13175, and all other applicable laws, regulations, and policies. The Project will comply with this CMA
Cultural Resources and Tribal Interests	LUPA-CUL-9	Promote DRECP desert vegetation types/communities by avoiding them where possible, then use required compensatory mitigation, off-site mitigation, and other means to ensure Native American vegetation collection areas and practices are maintained.	This is accomplished through NEPA, EX13175 and EX13007 and all other applicable laws, regulations, and policies. The Project will comply with this CMA.
Cultural Resources and Tribal Interests	LUPA-CUL-11	Promote and protect desert microphyll woodland vegetation type/communi- ties to ensure Native American cultural values are maintained.	The intent of this CMA is accomplished through compliance with NEPA, EX13175, EX13007 and all other applicable laws, regulations, and policies. The Easley Project will avoid microphyll woodland except for minor incursion. The Project will comply with this CMA.
Lands and Realty			
Lands and Realty	LUPA-LANDS-4	Nonfederal lands within the boundaries of BLM LUPA land use allocations are not affected by the LUPA.	The Project parcels located on federal land are designated as DFA.
Lands and Realty	LUPA-LANDS-5	The MUCs used to determine land tenure in the CDCA Plan will be replaced by areas listed in the CMAs below.	The Project is located in a DFA and will comply with this CMA.
Lands and Realty	LUPA-LANDS-8	The CDCA Plan requirement that new transmission lines of 161kV or above, pipelines with diameters greater than 12 inches, coaxial cables for interstate communications, and major aqueducts or canals for interbasin transfers of water will be located in designated utility corridors, or considered through the plan amendment process outside of designated utility corridors, remains unchanged. The only exception is that transmission facilities may be located outside of designated corridors within DFAs without a plan amendment. This CMA does not apply the Bishop and Bakersfield RMPs.	The Project is located in a DFA and will comply with this CMA.

DRECP CMAs -	LUPA Wide		
Category	CMA #	CMA Text	Comments
Paleontology			
Paleontology	LUPA-PALEO-1	If not previously available, prepare paleontological sensitivity maps consistent with the Potential Fossil Yield Classification for activities prior to NEPA analysis.	Paleontological sensitivity maps have been included in POD Appendix F (Paleontological Resources Technical Report). The Project will comply with this CMA.
Paleontology	LUPA-PALEO-2	Incorporate all guidance provided by the Paleontological Resources Protection Act.	With implementation of paleontological resources mitigation measures to be developed during the NEPA process, the Project will comply with the CMA.
Paleontology	LUPA-PALEO-3	Ensure proper data recovery of significant paleontological resources where adverse impacts cannot be avoided or otherwise mitigated.	With implementation of mitigation measures to be developed during the NEPA process, the Project will comply with the CMA.
Paleontology	LUPA-PALEO-4	Paleontological surveys and construction monitors are required for ground disturbing activities that require an EIS.	A paleontological survey has been performed for the Project and will implement mitigation measures (to be developed during the NEPA process) to require that a qualified paleon- tological monitor(s) will monitor all construction-related earth-moving activities in sediments determined to have a moderate (PFYC 3 or higher) sensitivity. The Project does not require an EIS but will nonetheless comply with this CMA.
Recreation			
Recreation and Visitor Services	LUPA-REC-1	Maintain, and where possible enhance, the recreation setting characteristics – physical components of remoteness, naturalness and facilities; social components of contact, group size and evidence of use; and operational components of access, visitor services and management controls.	The Project is surrounded by recreational opportunities and by built environment, including existing and approved renewable energy projects. The Project would be located in a DFA and the area does not experience high levels of recre- ation. The Project would not maintain or enhance the setting but would be consistent with the existing setting and with the DFA designation
Recreation and Visitor Services	LUPA-REC-6	Limit signage to that necessary for recreation facility/area identification, interpretation, education and safety/regulatory enforcement.	The Project does not anticipate signs other than for tem- porary detours on existing access roads, if necessary. Signs would be limited to what is necessary. The Project will comply with this CMA.
Soil and Water Re	sources		
Soil and Water General	LUPA-SW-1	Stipulations or conditions of approval for any activity will be imposed that provide appropriate protective measures to protect the quantity and quality of all water resources (including ephemeral, intermittent, and perennial water bodies) and any associated riparian habitat (see biological CMAs for specific riparian habitat CMAs). The water resources to which this CMA applies will be identified through the activity-specific NEPA analysis.	With implementation of mitigation measures to be developed during the NEPA process, the Project will comply with the CMA.
Soil and Water General	LUPA-SW-2	Buffer zones, setbacks, and activity limitations specifically for soil and water (ground and surface) resources will be determined on an activity/site-specific basis through the environmental review process, and will be consistent with the soil and water resource goals and objectives to protect these resources.	The Project will comply with this CMA and minimize long- term facilities in buffers or protected zones for soil and water resources.

DRECP CMAs -	LUPA Wide		
Category	CMA #	CMA Text	Comments
		Specific requirements, such as buffer zones and setbacks, may be based, in part, on the results of the Water Supply Assessment defined below. In general, placement of long-term facilities within buffers or protected zones for soil and water resources is discouraged, but may be permitted if soil and water resource management objectives can be maintained.	
Soil and Water General	LUPA-SW-3	Where a seeming conflict between CMAs within or between resources arises, the CMA(s) resulting in the most resource protection apply.	No conflicts between CMAs have been identified for the Project.
Soil and Water General	LUPA-SW-4	Nothing in the "Exceptions" below applies to or takes precedence over any of the CMAs for biological resources.	The Project would comply with the CMAs for biological resources.
Groundwater Resources	LUPA-SW-5	 Exceptions to any of the specific soil and water stipulations contained in this section, as well as those listed below under the subheadings "Soil Resources," "Surface Water," and "Groundwater Resources," may be granted by the authorized officer if the applicant submits a plan, or, for BLM-initiated actions, the BLM provides documentation, that demonstrates: The impacts are minimal (e.g., no predicted aquifer drawdown beyond existing annual variability in basins where cumulative groundwater use is not above perennial yield and water tables are not currently trending downward) or can be adequately mitigated. 	The CMA does not require actions but allows for some flexibility on how to comply with other CMAs.
Soil Resources	LUPA-SW-6	In addition to the applicable required governmental safeguards, third party activities will implement up-to-date standard industry construction practices to prevent toxic substances from leaching into the soil.	The Applicant will ensure that its third-party contractor adheres to LUPA-SW-6 and the specifics in Hazardous Materials Management and Oil Spill Response Plan (POD Appendix W). The Project will comply with this CMA.
	LUPA-SW-7	Prepare an emergency response plan, approved by the BLM contaminant remediation specialist, that ensures rapid response in the event of spills of toxic substances over soils.	A Health, Safety, and Noise Plan, which addresses emer- gency response is included in POD Appendix T. The Project will comply with this CMA.
	LUPA-SW-8	As determined necessary on an activity specific basis, prepare a site plan specific to major soil types present (≥5% of footprint or laydown surfaces) in Wind Erodibility Groups 1 and 2 and in Hydrology Soil Class D as defined by the USDA Natural Resource Conservation Service to minimize water and air erosion from disturbed soils on activity sites.	The Project will take the erosion potential into consideration during engineering to avoid areas of high erodibility or to minimize water and air erosion through the use of BMPs. No site-specific plan is required.
	LUPA-SW-9	The extent of desert pavement within the proposed boundary of an activity shall be mapped if it is anticipated that the activity may create erosional or ecologic impacts. Mapping will use the best available data and standards, as determined by BLM. Disturbance of desert pavement within the boundary of an activity shall be limited to the extent possible. If disturbance from an activity is likely to exceed 10% of the desert pavement mapped within the activity boundary, the BLM will determine whether the erosional and ecologic impacts of exceeding the 10% cap by the proposed amount would be insignificant and/or whether the activity should be redesigned to minimize desert pavement disturbance.	The Easley Project has small patches of mapped the desert pavement within the Project footprint and may disturb desert pavement. The extent that the Project could create erosional or ecolo- gical impacts will be evaluated in the NEPA document. Implementation of dust control and soil and water resources mitigation measures and compliance with the Project SWPPP would reduce erosion impacts related to disturbance of desert pavement. Biological resources mitigation would require compensation for habitat impacts including ensuring that the habitat value of the compensation lands is

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DRECP CMAs - LUPA Wide				
Category	CMA #	CMA Text	Comments	
			comparable to the impacts. With implementation of the mitigation measures to be developed during the NEPA process, the effects to desert pavement would be insignificant and meet CMA LUPA-SW-9. The Project would comply with this CMA.	
	LUPA-SW-10	The extent of additional sensitive soil areas (cryptobiotic soil crusts, hydric soils, highly corrosive soils, expansive soils, and soils at severe risk of erosion) shall be mapped if it is anticipated that an activity will impact these resources. To the extent possible, avoid disturbance of desert biologically intact soil crusts, and soils highly susceptible to wind and water erosion.	The Project will comply with this CMA if sensitive soils are documented onsite.	
	LUPA-SW-11	Where possible, side casting shall be avoided where road construction requires cut- and-fill procedures.	The Project will comply with this CMA and will avoid side cast- ing where road construction requires cut-and-fill procedures.	
	LUPA-SW-13	BLM will manage all riparian areas to be maintained at, or brought to, proper functioning condition.	The CMA is specific to BLM actions.	
	LUPA-SW-16	The 100-year floodplain boundaries for any surface water feature in the vicinity of the project will be identified. If maps are not available from the Federal Emergency Management Agency (FEMA), these boundaries will be determined via hydrologic modeling and analysis as part of the environmental review process. Construction within, or alteration of, 100-year floodplains will be avoided where possible, and permitted only when all required permits from other agencies are obtained.	FEMA flood insurance rate maps have not been prepared for the Project site or surrounding lands and the site does not lie within a federally mapped floodplain. The Project will comply with this CMA.	
Groundwater	LUPA-SW-17	An activity's groundwater extraction shall not contribute to exceeding the estimated perennial yield for the basin in which the extraction is taking place. Perennial yield is that quantity of groundwater that can be withdrawn from the groundwater basin without exceeding the long-term recharge of the basin or unreasonably affecting the basin's physical, chemical, or biological integrity. It is further clarified arithmetically below.	A Water Supply Assessment is included in POD Appendix P. Groundwater Monitoring and Reporting and any potential impacts to the Chuckwalla Valley Groundwater Basin will be addressed with implementation of mitigation measures to be developed during the NEPA process. The Project will comply with this CMA.	
	LUPA-SW-18	Water extracted or consumptively used for the construction, operation, maintenance, or remediation of the project shall be solely for the beneficial use of the project or its associated mitigation and remediation measures, as specified in approved plans and permits.	The Project will comply with this CMA and follow all plan and permit stipulations regarding Project water use	
	LUPA-SW-19	Water flow meters shall be installed on all extraction wells permitted by BLM.	The Project will comply with this CMA and install a water flow meter if a water well is drilled at the Project site and permitted by BLM.	
	LUPA-SW-21	Consideration shall be given to design alternatives that maintain the existing hydrology of the site or redirect excess flows created by hardscapes and reduced permeability from surface waters to areas where they will dissipate by percolation into the landscape.	The Project would substantially maintain the existing hydrol- ogy of the area; minimal additional impermeable surfaces are proposed. Therefore, the Project would comply with this CMA.	

Category	CMA #	CMA Text	Comments
	LUPA-SW-22	All hydrologic alterations shall be avoided that could reduce water quality or quantity for all applicable beneficial uses associated with the hydrologic unit in the project area, or specific mitigation measures shall be implemented that will minimize unavoidable water quality or quantity impacts, as determined by BLM in coordination with USFWS, CDFW, and other agencies, as appro- priate. These beneficial uses may include municipal, domestic, or agricultural water supply; groundwater recharge; surface water replenishment; recrea- tion; water quality enhancement; flood peak attenuation or flood water storage; and wildlife habitat.	With implementation of mitigation measures to be developed during the NEPA process, the Project will comply with the CMA.
	LUPA-SW-23	 A Water (Groundwater) Supply Assessment shall be prepared in conjunction with the activity's NEPA analysis and prior to an approval or authorization. This assessment must be approved by the BLM in coordination with USFWS, CDFW, and other agencies, as appropriate, prior to the development, extraction, injection, or consumptive use of any water resource. The purpose of the Water Supply Assessment is to determine whether over-use or over-draft conditions exist within the project basin(s), and whether the project creates or exacerbates these conditions. The Assessment shall include an evaluation of existing extractions, water rights, and management plans for the water supply in the basin(s) (i.e., cumulative impacts), and whether these cumulative impacts (including the proposed project) can maintain existing land uses as well as existing aquatic, riparian, and other water-dependent resources within the basin(s). This assessment shall identify: All relevant groundwater basins or sub-basins and their relationships. All known aquifers in the basin(s), including their dimensions, whether confined or unconfined, estimated hydraulic conductivity and transmissivity, groundwater surface elevations, and direction and movement of groundwater. All surface water basin(s) related to water runoff, delivery, and supply, if different from the groundwater basin(s). All sites of surface outflow (springs or seeps) contained within the basin(s), including historic sites. All other surface water bodies in the basin(s), playas, and floodplains. The water requirements of the proposed project and the source(s) of that water. An analysis demonstrating that water of sufficient quantity and quality is available from identified source(s) for the life of the project. An analysis of potential project-related impacts on water quality and quantity needed for beneficial uses, reserved water rights, existing groundwater users, or habitat management within or down gradi	The Easley Project will complete a Water Supply Assessment Per LUPA-SW-5, an exception to the CMA can be made i impacts are minimal; therefore, it is anticipated that the Water Supply Assessment satisfies this CMA and meets the intent of the DRECP resource management goals.

Attachment 3, Page 81 of 94 Appendix L. Mitigation Monitoring and Reporting Program

Category	CMA #	CMA Text	Comments
		project would be constructed, and any groundwater-dependent resources within or down gradient of that basin.	
		The primary product of the Water Supply Assessment shall be a baseline water budget, which shall be established based on the best-available data and hydrologic methods for the identified basin(s). This water budget shall classify and describe all water inflow and outflow to the identified basin(s) or system using best-available science and the following basic hydrologic formula or a derivation: $P - R - E - T - G = \Delta S$	
		where P is precipitation and all other water inflow or return flow, R is surface runoff or outflow, E is evaporation, T is transpiration, G is groundwater outflow (including consumptive component of existing pumping), and ΔS is the change in storage. The volumes in this calculation shall be in units of either acre-feet per year or gallons per year. The water budget shall quantify the existing perennial yield of the basin(s). Perennial yield is defined arithmetically as that amount such that $P - R - E - T - G$ is greater than or equal to 0	
		Water use by groundwater-dependent resources is implicitly included in the definition of perennial yield. For example, in many basins the transpiration component (T) includes water use by groundwater-dependent vegetation. Similarly, groundwater outflow (G) includes discharge to streams, springs, seeps, and wetlands. If one or more budget components is altered, then one or more of the remaining components must change for the hydrologic balance to be maintained. For example, an increase in the consumptive component of groundwater pumping can lower the water table and reduce transpiration by groundwater-dependent vegetation. The groundwater that had been utilized by the groundwater-dependent vegetation would then be considered "captured" by groundwater pumping. Similarly, increased groundwater consumption can capture groundwater that discharges to streams, springs, seeps, wetlands and playas. These changes can occur slowly over time, and may require years or decades before the budget components are fully adjusted. Accordingly, the water/groundwater supply assessment requires that the best-available data and hydrologic methods be employed to quantify these budgets, and that groundwater consumption effects on groundwater-dependent ecosystems be identified and addressed.	
		 The Water Supply Assessment shall also address: Estimates of the total cone of depression considering cumulative draw- down from all potential pumping in the basin(s), including the project, for the life of the project through the decommissioning phase Potential to cause subsidence and loss of aquifer storage capacity due to groundwater pumping Potential to cause injury to other water rights, water uses, and land owners Changes in water quality and quantity that affect other beneficial uses 	

Category	CMA #	CMA Text	Comments
		 Effects on groundwater dependent vegetation and groundwater discharge to surface water resources such as streams, springs, seeps, wetlands, and playas that could impact biological resources, habitat, or are culturally important to Native Americans Additional field work that may be required, such as an aquifer test, to evaluate site specific project pumping impacts and if necessary, establish trigger points that can be used for a Groundwater Water Monitoring and Mitigation Plan The mitigation measures required, if there are significant or potentially significant impacts on water resources include but are not limited to, the use of specific technologies, management practices, retirement of active water rights, development of a recycled water supply, or water imports 	
	LUPA-SW-24	A Groundwater Monitoring and Reporting Plan, and Mitigation Action Plan shall be prepared to verify the Water Supply Assessment and adaptively manage water use as part of project operations. This plan shall be approved by BLM, in coordination with USFWS, CDFW, and other agencies as appro- priate, prior to the development, extraction, injection, or consumptive use of any water resource. The quality and quantity of all surface water and groundwater used for the project shall be monitored and reported using this plan. Groundwater monitoring includes measuring the effects of a project's groundwater extraction on groundwater surface elevations, groundwater flow paths, changes to groundwater-dependent vegetation, and of aquifer recovery after project decommissioning. Surface water wonitoring, if applicable, shall monitor for changes in the flows, water volumes, channel characteristics, and water quality as a result of a project's surface water use. Monitoring frequency and geographic scope and reporting frequency shall be decided on a project and site-specific basis and in coordination with the appropriate agencies that manage the water and land resources of the region. The geographic scope may include at the very least, all basins/sub-basins that potentially receive inflow from the basin where the proposed project may be sited, and all basins/sub-basins that may potentially contribute inflow to the basin where the proposed project is located. The plan shall also detail any mitigation measures that may be required as a result of the project. This plan and all monitoring results shall be made available to BLM. BLM will make the plan and results available to USFWS, CDFW, and other applicable agencies.	A Water Supply Assessment is included in POD Appendix P Groundwater Monitoring and Reporting will be included in the mitigation measures developed during the NEPA process. The Project will comply with this CMA.
	LUPA-SW-25	Where groundwater extraction, in conjunction with other cumulative impacts in the basin, has potential to exceed the basin's perennial yield or to impact water resources, one or more "trigger points," or specified groundwater ele- vations in specific wells or surface water bodies, shall be established by BLM. If the groundwater elevation at the designated monitoring wells falls below the trigger point(s)(or exceeds the trigger pumping rate), additional mitigation measures, potentially including cessation of pumping, will be imposed.	Use of water will be considered during the NEPA process and if deemed appropriate, trigger points may be required. The Project will comply with this CMA if required after additiona study.

DRECP CMAs -	LUPA Wide		
Category	CMA #	CMA Text	Comments
	LUPA-SW-26	Groundwater pumping mitigation shall be imposed if groundwater monitoring data indicate impacts on water-dependent resources that exceed those anticipated and otherwise mitigated for in the NEPA analysis and ROD, even if the basin's perennial yield is not exceeded. Water-dependent resources include riparian or phreatophytic vegetation, springs, seeps, streams, and other approved domestic or industrial uses of groundwater. Mitigation mea- sures may include changes to pumping rates, volume, or timing of water withdrawals; coordinating and scheduling groundwater pumping activities in conjunction with other users in the basin; acquisition of project water from outside the basin; and/or replenishing the groundwater resource over a reasonably short timeframe. For permitted activities, permittees may also be required to contribute funds to basin-wide groundwater monitoring networks in basins such as those encompassed by the East Riverside DFA or in the Calvada Springs/South Pahrump Valley area, and to cooperate in the compilation and analysis of groundwater data.	A Water Supply Assessment is included in POD Appendix P. Groundwater Monitoring and Reporting and any potential impacts to the Chuckwalla Valley Groundwater Basin will be addressed with implementation of mitigation measures to be developed during the NEPA process. The Project will comply with this CMA.
	LUPA-SW-27	Water-conservation measures shall be required in basins where current groundwater demand is high and has the future potential to rise above the estimated perennial yield (e.g., Pahrump Valley). These measures may include the use of specific technology, management practices, or both. A detailed discussion and analysis of the effectiveness of mitigation measures must be included. Application of these measures shall be detailed in the Groundwater Water Monitoring and Mitigation Plan.	A Water Supply Assessment is included in POD Appendix P. Groundwater Monitoring and Reporting and any potential impacts to the Chuckwalla Valley Groundwater Basin will be addressed with implementation of mitigation measures to be developed during the NEPA process. The Project will comply with this CMA.
	LUPA-SW-30	Activities shall comply with local requirements for any long term or short-term domestic water use and wastewater treatment.	The Project will comply with this CMA by adhering to any applicable local requirements regarding domestic water use and wastewater treatment.
	LUPA-SW-31	The siting, construction, operation, maintenance, remediation, and abandon- ment of all wells shall conform to specifications contained in the California Department of Water Resources Bulletins #74-81 and #74-90 and their updates.	Should a well be drilled on the Project site, the Project will comply with this CMA and its stated specification.
	LUPA-SW-32	Colorado River hydrologic basin - The concepts, principles and general meth- odology used in the Colorado River Accounting Surface Method, as defined in U.S. Geological Survey Scientific Investigations Report 2008-5113 (USGS 2009), and existing and future updates or a similar methodology, are con- sidered the best available data for assessing activity/project related ground water impacts in the Colorado River hydrologic basin. The best available data and methodology shall be used to determine whether activity/project-related pumping would result in the extracted water being replaced by water drawn from the Colorado River. If activity/project-related groundwater pumping results in the static groundwater level at the well being near (within 1 foot), equal to, or below the Accounting Surface in a basin hydrologically connected to the Colorado River, that consumption shall be considered subject to the Law of the River (Colorado River Compact of 1922 and amendments). In such	A Water Supply Assessment is included in POD Appendix P. Mitigation measures to be developed during the NEPA pro- cess will state that, if water for the Project is to be obtained from onsite wells, the Applicant shall develop a Colorado River Water Supply Plan to monitor groundwater extractions and prevent, replace, or mitigate Project impacts that deplete the PVMGB groundwater budget. Mitigation mea- sures will include groundwater monitoring and mitigation. The Project will comply with this CMA.

DRECP CMAs - I	UPA Wide		
Category	CMA #	CMA Text	Comments
		circumstances, BLM shall require the applicant to offset or otherwise mitigate the volume of water causing drawdown below the Accounting Surface. Details of such mitigation measures and the right to the use of water shall be described in the Groundwater Water Monitoring and Mitigation Plan.	
	LUPA-SW-35	 Stipulations for activities in the vicinity of Death Valley National Park, Joshua Tree National Park, or Mojave National Preserve: The NEPA for activities involving groundwater extraction that are in the vicinity of Death Valley National Park, Joshua Tree National Park, or the Mojave National Preserve shall analyze and address any potential impacts of groundwater extraction on Death Valley National Park, Joshua Tree National Park, or Mojave National Preserve. BLM will consult with the National Park Service on this process. The analysis or analyses shall include: Potential impacts on the water balances of groundwater basins within these parks and preserves A map identifying all potentially impacted surface water resources in the vicinity of the project, including a narrative discussion of the delineation methods used to discern those surface waters in the field Any project-related modifications to surface water resources, both temporary and permanent Analysis of any potential impacts on perennial streams, intermittent streams, and ephemeral drainages that could negatively impact natural riparian buffers Impacts of any project proposed truncation, realignment, channelization, lining, or filling of surface water resources that could change drainage patterns, reduce available riparian habitat, decrease water storage capacity, or increase water flow velocity or sediment deposition, in particular where stormwater diverted around or through the project Any potential indirect project-related causes of hydrologic changes that could exacerbate flooding, erosion, scouring, or sedimentation in stream channels Alternatives and mitigation measures proposed to reduce or eliminate such impacts 	The NEPA review will consider potential effects of ground- water pumping for the Project on nearby wells. The Project would not have an impact on surface or groundwater within Joshua Tree National Park, which is underlain by a different groundwater basin, the Pinto Valley Groundwater Basin.
Visual Resources N	lanagement		
Visual Resources Management	LUPA-VRM-1	Manage Visual Resources in accordance with the VRM classes shown on Figure 9.	Under the DRECP LUPA, the DFA where the Easley Project are located is classified as VRI Class IV, which allow for a high level of change. The Project will comply with this CMA.
Visual Resources Management	LUPA-VRM-2	Ensure that activities within each of the VRM Class polygons meets the VRM objectives described above, as measured through a visual contrast rating process.	Under the DRECP LUPA, the DFA where the Easley Project is located is classified as VRI Class IV, which allow for a high level of change. The NEPA analysis will consider the visual contrast rating process. The Project will comply with this CMA.

DRECP CMAs - L	RECP CMAs - LUPA Wide			
Category	CMA #	CMA Text	Comments	
Visual Resources Management	LUPA-VRM-3	Ensure that transmission facilities are designed and located to meet the VRM Class objectives for the area in which they are located. New transmission lines routed through designated corridors where they do not meet VRM Class Objectives will require RMP amendments to establish a conforming VRM Objective. All reasonable effort must be made to reduce visual contrast of these facilities in order to meet the VRM Class before pursing RMP amend- ments. This includes changes in routing, using lattice towers (vs. monopole), color treating facilities using an approved color from the BLM Environmental Color Chart CC-001 (dated June 2008, as updated on April 2014, or the most recent version) (vs. galvanized) on towers and support facilities, and employing other BMPs to reduce contrast. Such efforts will be retained even if an RMP amendment is determined to be needed. Visual Resource BMPs that reduce adverse visual contrast will be applied in VRM Class conforming situations. For a reference of BMPs for reducing visual impacts see the "Best Management Practices for Reducing Visual Impacts of Renewable Energy Facilities on BLM-Administered Lands", available at		

DRECP CMAs - Transmission			
Category	CMA #	CMA Text	Comments
Biological Reso	urces		
Biological Resources	LUPA-TRANS- BIO-1	Where feasible and appropriate for resource protection, site transmission activities along roads or other previously disturbed areas to minimize new surface disturbance, reduce perching opportunities for the Common Raven, and minimize collision risks for birds and bats.	The Easley gen-tie line will be sited along disturbed areas using existing transmission line corridors and roads where available. The Easley gen-tie line will share the Oberon Project 500 kV line from the Oberon Substation to Red Bluff Substation. The Project will comply with this CMA.
	LUPA-TRANS- BIO-2	Flight diverters will be installed on all transmission activities spanning or within 1,000 feet of stream and wash channels, canals, ponds, and any other natural or artificial body of water. The type of flight diverter selected will be subject to approval by BLM, in coordination with USFWS and CDFW as appropriate, and will be based on the best available scientific and com- mercial data regarding the prevention of bird collisions with transmission and guy wires.	The Easley gen-tie lines would not cross any streams, larger wash channels, or other natural or artificial bodies of water. However, there are artificial water sources in the Project vicinity and the gen-tie line would cross many small washes and areas of desert dry wash woodland habitat that birds may use for shelter. The Project will comply with this CMA.
	LUPA-TRANS- BIO-4	Siting of transmission activities will be prioritized within designated utility corridors, where possible, and designed to avoid, where possible, and otherwise minimize and offset impacts to sand transport processes in	The gen-tie line will be sited along disturbed areas using existing transmission line corridors and roads where available. The

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	DRECP CMAs - Transmission			
Category	CMA #	CMA Text	Comments	
		Aeolian corridors, rare vegetation alliances and Focus and BLM Special Status Species. Transmission substations will be sited to avoid Aeolian corridors, rare vegetation alliances, and sand-dependent Focus and BLM Special Status Species habitats.	Project substation yard is not within aeolian corridors. The Project will comply with this CMA.	
Cultural Resource	es & Tribal Interes	ts		
Cultural Resources & Tribal Interests	LUPA-TRANS- CUL-1	 For transmission (and renewable energy) activities, require the applicant to pay all appropriate costs associated with the following processes, through the appropriate BLM funding mechanism: All appropriate costs associated with the BLM's analysis of the DRECP geodatabase and other sources for cultural resources sensitivity. All appropriate costs associated with preliminary sensitivity analysis. All appropriate costs associated with the Section 106 process including the identification and defining of cultural resources. These costs may also include logistical, travel, and other support costs incurred by tribes in the consultation process. All appropriate costs associated with updating the DRECP cultural resources geodatabase with project specific results. 	The existing cost-recovery agreements meet the requirements of this CMA.	
	LUPA-TRANS- CUL-2	Consistent and in compliance with the NHPA Programmatic Agreement, signed February 5, 2016, or the most up to date signed version – for transmission (and renewable energy) activities, a compensatory mitigation fee will be required within the LUPA Decision Area to address cumulative and some indirect adverse effects to historic properties. The mitigation fee will be calculated in a manner that is commensurate to the size and regional impacts of the project. Refer to the NHPA Programmatic Agreement for details regarding the mitigation fee.	This may be accomplished through mitigation measures devel- oped through the Section 106 or NEPA process. The Project will comply with this CMA.	
	LUPA-TRANS- CUL-3	For transmission (and renewable energy) activities, the management fee rate will be determined through the NHPA programmatic Section 106 consultation process that will be completed as part of the DRECP land use plan amendment.	This may be accomplished through mitigation measures devel- oped through the Section 106 or NEPA process. The Project will comply with this CMA.	
	LUPA-TRANS- CUL-4	For transmission (and renewable energy) activities, demonstrate that results of cultural resources sensitivity, based on the DRECP geodatabase, and other sources, are used as part of the initial planning pre-application process and to select of specific footprints for further consideration.	The CMA is an action to be taken by the BLM.	
	LUPA-TRANS- CUL-5	For transmission (and renewable energy) activities, provide a statistically significant sample survey as part of the pre-application process, unless the BLM determines the DRECP geodatabase and other sources are adequate to assess cultural resources sensitivity of specific footprints.	A BLM Class III archaeological survey will be completed for the Easley Project and along the gen-tie line and access route prior to the NEPA review, which exceeds the requirements of this CMA. The Project will comply with this CMA.	
	LUPA-TRANS- CUL-6	For transmission (and renewable energy) activities, provide justification in the application why the project considerations merit moving forward if the	Mitigation measures developed during the NEPA process will require reducing impacts of the Easley Project to cultural	

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	DRECP CMAs - Transmission			
Category	CMA #	CMA Text	Comments	
		specific footprint lies within an area identified or forecast as sensitive for cultural resources by the BLM.	resources to the extent feasible. The Project will comply with this CMA.	
	LUPA-TRANS- CUL-7	For transmission (and renewable energy) activities, complete the NHPA Section 106 Process as specified in 36 CFR Part 800, or via an alternate procedure, allowed for under 36 CFR Part 800.14 prior to issuing a ROD or ROW grant on any utility-scale renewable energy or transmission project. For utility-scale solar energy developments, the BLM may follow the Solar Programmatic Agreement.	NHPA Section 106 compliance will be completed consistent with the DRECP PA. Section 106 compliance will be completed prior to the issuance of a Decision Record for the Project. The Project will comply with this CMA.	

Category	CMA #	CMA Text	Comments
	LUPA-COMP-1	 For third party actions, compensation activities must be initiated or completed within 12 months from the time the resource impact occurs (e.g. ground disturbance, habitat removal, route obliteration, etc. for construction activities; wildlife mortality, visual impacts, etc. due to operations). BLM will determine, in the environmental analysis, the activity/project-level timing of the compensation (i.e., initiated, completed or a combination) based on the specific resources being impacted, and scope and content of the activity. A 6-month extension may be authorized, subject to approval by the authorizing officer, dependent on the resources impacted and compensation due diligence of the project developer. 	The Applicant will develop a comprehensive habitat mitiga- tion package. The Project will comply with this CMA should a third-party action causing a resource impact occur during construction or operations.

DRECP CMAs - DFAs and VPLs					
Category	CMA #	CMA Text	Comments		
Biological Resources					
Biological Resources: North American Warm Desert Dune and Sand Flats	DFA-VPL-BIO- DUNE-1	 Activities in DFAs and VPLs, including transmission substations, will be sited to avoid dune vegetation (i.e., North American Warm Desert Dune and Sand Flats). Unavoidable impacts (see "unavoidable impacts to resources" in the Glossary of Terms) to dune vegetation will be limited to transmission projects, except transmission substations, and access roads that will be sited to minimize unavoidable impacts. For unavoidable impacts (see "unavoidable impacts to resources" in the Glossary of Terms) to dune vegetation, the following will be required: Access roads will be unpaved. Access roads will be designed and constructed to be at grade with the ground surface to avoid inhibiting sand transportation. 	The Easley Project does not include dune vegetation. The Project will comply with this CMA.		

DRECP CMAs - DFAs and VPLs					
Category	CMA #	CMA Text	Comments		
Individual Focus Species (IFS): Desert Tortoise	DFA-VPL-BIO- IFS-1	To the maximum extent practicable (see Glossary of Terms), activities will be sited in previously disturbed areas, areas of low-quality habitat, and areas with low habitat intactness in desert tortoise linkages and the Ord-Rodman TCA, identified in Appendix D.	The Easley Project is in a fragmented landscape north of the I-10 freeway and Oberon Project, south of the Desert Sunlight and Desert Harvest projects, near to rural residential com- munities, and abandoned and active agricultural land uses. Desert tortoise habitat rankings range from 0 to 0.7 according to the Nussear model which does not consider these Anthro- pogenic habitat effects. The site partially overlaps a multiple species linkage and Pinto Wash Desert Tortoise Linkage. The Project will comply with this CMA.		
Fire Prevention/ Protection	DFA-VPL-BIO- FIRE-1	 Implement the following standard practice for fire prevention/protection: Implement site-specific fire prevention/protection actions particular to the construction and operation of renewable energy and transmission project that include procedures for reducing fires while minimizing the necessary amount of vegetation clearing, fuel modification, and other construction-related activities. At a minimum these actions will include designating site fire coordinators, providing adequate fire suppression equipment (including in vehicles), and establishing emergency response information relevant to the construction site. 	With implementation of mitigation measures to be devel- oped during the NEPA process and the Fire Management and Prevention Plan (POD Appendix V), the Project will comply with this CMA.		
Biological Compensation	DFA-VPL-BIO- COMP-1	Impacts to biological resources from all activities in DFAs and VPLs will be compensated using the same ratios and strategies as LUPA-BIO-COMP-1 through 4, with the exception identified below in DFA-VPL-BIO-COMP-2.	The Project will comply with the standard ratio for new im- pacts to native habitat, pinto wash desert tortoise linkage, and will comply with the designated critical habitat ratio where applicable. The Project will comply with this CMA.		
Cultural Resource	es and Tribal Intere	ests			
	DFA-VPL-CUL-1	 For renewable energy activities and transmission, require the applicant to pay all appropriate costs associated with the following processes, through the appropriate BLM funding mechanism: All appropriate costs associated with the BLM's analysis of the DRECP geodatabase and other sources for cultural resources sensitivity. All appropriate costs associated with preliminary sensitivity analysis. All appropriate costs associated with the Section 106 process including the identification and defining of cultural resources. These costs may also include logistical, travel, and other support costs incurred by tribes in the consultation process. All appropriate costs associated with updating the DRECP cultural resources geodatabase with project specific results. 	The existing cost-recovery agreements meet this CMA.		
	DFA-VPL-CUL-2	Consistent and in compliance with the NHPA Programmatic Agreement, signed February 5, 2016, or the most up to date signed version -for renew- able energy activities and transmission, a compensatory mitigation fee will be required within the LUPA Decision Area to address cumulative and some indirect adverse effects to historic properties. The mitigation fee will be calculated in a manner that is commensurate to the size and regional	This may be accomplished through mitigation measures developed through the Section 106 or NEPA process. The Project will comply with this CMA.		

DRECP CM	DRECP CMAs - DFAs and VPLs			
Category	CMA #	CMA Text	Comments	
		impacts of the project. Refer to the Programmatic Agreement for details regarding the mitigation fee.		
	DFA-VPL-CUL-3	For renewable energy activities and transmission, the management fee rate will be determined through the NHPA programmatic Section 106 consultation process that will be completed as part of the DRECP land use plan amendment.	This may be accomplished through mitigation measures developed through the Section 106 or NEPA process. The Project will comply with this CMA.	
	DFA-VPL-CUL-4	For renewable energy activities and transmission, demonstrate that results of cultural resources sensitivity, based on the DRECP geodatabase, and other sources, are used as part of the initial planning pre-application process and to select of specific footprints for further consideration.	The CMA is an action to be taken by the BLM.	
	DFA-VPL-CUL-5	For renewable energy activities and transmission, provide a statistically significant sample survey as part of the pre-application process, unless the BLM determines the DRECP geodatabase and other sources are adequate to assess cultural resources sensitivity of specific footprints.	A BLM Class III archaeological survey will be completed for the Easley Project prior to the NEPA review, which exceeds the requirements of this CMA. The Project will comply with this CMA.	
	DFA-VPL-CUL-6	For renewable energy activities and transmission, provide justification in the application why the project considerations merit moving forward if the specific footprint lies within an area identified or forecast as sensitive for cultural resources by the BLM.	Mitigation measures developed during the NEPA process will require reducing impacts of the Easley Project to cultural resources to the extent feasible. The Project will comply with this CMA.	
	DFA-VPL-CUL-7	For renewable energy activities and transmission, complete the NHPA Section 106 Process as specified in 36 CFR Part 800, or via an alternate procedure, allowed for under 36 CFR Part 800.14 prior to issuing a ROD or ROW grant on any utility-scale renewable energy or transmission project. For utility-scale solar energy developments, the BLM may follow the Solar Programmatic Agreement.	NHPA Section 106 will be completed for the Project consis- tent with the DRECP PA Section 106 compliance will be completed prior to the issuance of a Decision Record for the Project. Mitigation measures developed during the NEPA process will require reducing impacts of the Easley Project to cultural resources to the extent feasible. The Project will comply with this CMA.	
Visual Resources	Management			
Visual Resources Management	DFA-VPL-VRM-1	Encourage development in a planned fashion within DFAs (e.g., similar to the planned unit development concept used for urban design—i.e., in-fill vs. scattered development, use of common road networks, Generator Tie Lines etc., use of similar support facility designs materials and colors etc.) to avoid industrial sprawl.	The Easley Project is located in close proximity to other renewable development and an existing electric substation. The Easley Project will share access roads and utilize existing roads to the extent feasible. In addition, the Easley Project will interconnect to the Oberon Substation and utilize the Oberon gen-tie line to the Red Bluff Substation. The Project will comply with this CMA.	
	DFA-VPL-VRM-2	Development in DFAs and VPLs are required to incorporate visual design standards and include the best available, most recent BMPs, as determined by BLM (e.g. Solar, Wind, West Wide Energy Corridor, and Geothermal PEISs, the <i>"Best Management Practices for Reducing Visual Impacts of Renewable Energy Facilities on BLM-Administered Lands"</i> , and other programmatic BMP documents).	The Project will implement BMPs, as necessary, to comply with this CMA.	

Category	CMA #	CMA Text	Comments
	DFA-VPL-VRM-3	 Required Visual Resource BMPs. All development within the DFAs and VPLs will abide by the BMPs addressed in the most recent version of the document "Reducing Visual Impacts of Renewable Energy Facilities on BLM-Administered Lands", or its replacement, including, but not limited to the following: Transmission: Color-treat monopoles Shadow Gray per the BLM Environmental Color Chart CC001 unless a more effective color choice is selected by the local Field Office VRM specialist. Lattice towers and conductors will have non-specular qualities. Lattice Towers will be located a minimum of 3/4 miles away from Key Observation Points such as roads, scenic overlooks, trails, campgrounds, navigable rivers and other areas people tend to congregate and located against a landscape backdrop when topography allows. Solar – Color treat all facilities Shadow Gray from the BLM Environmental Color Chart CC001 unless a more effective color is selected by the Field Office VRM specialist, including but not limited to: Concentrated solar thermal parabolic trough panel backs Solar power towers Cooling towers Power blocks Wind – Color treat all facilities Shadow Gray with the exception of the wind turbine and towers 200 vertical feet or more. Night Sky – BMPs to minimize impacts to night sky including light shielding will be employed 	The Project will implement BMPs, as necessary, to comply with this CMA.

DRECP CM	DRECP CMAs - Development Focus Areas		
Category	CMA #	CMA Text	Comments
Renewable Energy	DFA-RE-1	 In order to use the DRECP's BLM LUPA streamlined process for renewable energy in DFAs and transmission, project proponents must first consult with appropriate representatives of the Department of Defense to ensure the proposed renewable energy and/or transmission activity will not cause an unacceptable risk to national security. Refer to additional detail in LUPA Section IV.4 and Appendix E. Specifically, the following process will be implemented: For renewable energy and transmission activities proposed in red areas (see Appendix E), the DRECP BLM LUPA streamlined process will not be available unless a letter is obtained from the Department of Defense Siting Clearing-house stating that military impacts have been mitigated. 	The DRECP LUPA Appendix E states that solar PV present little to no conflict to military operations. The Project will comply with this CMA.

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DRECP CMAs - DFAs and VPLs

Attachment 3, Page 91 of 94 Appendix L. Mitigation Monitoring and Reporting Program

Category	CMA #	CMA Text		Comments
		yellow areas (see Ap not be available unti level have been cons assess potential mis within the 30-day pe activity presents an streamline the prop mental analysis rega	gy and transmission activities proposed in orange or pendix E), the DRECP BLM LUPA streamlined process will I Department of Defense representatives at the regional sulted and have been provided a minimum of 30 days to ission impacts. If the regional representatives conclude riod that there is a significant possibility that a proposed unacceptable risk to national security, the BLM will not osed activity process and will require additional environ- irding Department of Defense impacts, unless a letter is bepartment of Defense Siting Clearinghouse stating that e been mitigated.	
Biological Resources	DFA-BIO-IFS-1	-	surveys as applicable in the DFAs as shown in Table 21 . Individual Species DFA Survey Requirements	Wildlife surveys have been completed as dictated in DFA- BIO-IFS-1 for the applicable species. The methodologies and
		Species	DFA Survey Requirements	surveys results are included in the Biological Resources
		•	Reptile	Technical Report. The Project will comply with this CMA.
		Deserttortoise	Protocol surveys in the desert tortoise habitat	
			areas indicated in Appendix H.	
		Flat-tailed horned liza	, , ,	
			Management Strategy (RMS).	
		Developed a three sheen	Bird	
		Bendire's thrasher	Pre-construction nesting bird survey during breeding season (March 1 through	
			September 30) in suitable habitat on and within	
			500 feet of construction zone.	
		Burrowing Owl	Breeding season surveys (February 1through	
			August 31) per Burrowing Owl Guidelines (CDFG,	
			2012).	
			Clearance surveys (for direct take avoidance) no	
			less than 14days prior to ground disturbance per	
			Burrowing Owl Guidelines.	
		California condor	None.	
		Gila woodpecker	None.	
		Golden eagle	Pre-project golden eagle surveys and pre- construction risk assessment surveys in LUPA-BIO-	
			IFS-28, if applicable as described ingolden eagle	
			CMAs below.	
		Swainson's Hawk	Protocol surveys in the Antelope and Owens	
			Valleys.	
			Mammal	
		Desert bighorn sheep	None.	

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Category	CMA #	CMA Text		Comments
		Mohave ground squirrel	Clearance surveys in the Mohave ground squirrel habitat areas indicated in Appendix H. Protocol surveys in key population centers and linkages.	
	DFA-BIO-IFS-2	DFAs.	etbacks shown below in Table 22 as applicable in the ividual Species DFA Setback Requirements	The Project will comply, as applicable, with the setbacks listed in this CMA (see also mitigation measures developed during the NEPA process).
		Species	DFA Setbacks	
			Reptile	
		Deserttortoise	None.	
		Flat-tailed horned lizard	None.	
			Bird	
		Bendire's thrasher	Setback pre-construction, construction, and decommissioning, and other activities 500 feet from active nests.	
		Burrowing Owl	656 feet (200 meters) from active nesting sites.	
		California condor	Setback wind and transmission projects 5 miles from nest sites. Setback solar, geothermal, and other activities than may impact condors 1.5 miles from nest sites and out of direct line of site from nest sites.	
		Gila woodpecker	Setback pre-construction, construction, and decommissioning, and other activities that may impact the species 0.25 miles from suitable habitat during the breeding season (April 1 through July 31).	
		Golden eagle	Setback activities 1 mile from active or alternative nests within an active territory as described in LUPA-BIO-IFS-24.	
		Swainson's Hawk	0.5 miles from active nests.	
			Mammal	
		Desert bighorn sheep	None.	
		Mohave ground squirrel	None.	

DRECP CMAs - Development Focus Areas

Category	CMA #	CMA Text	Comments
Desert Tortoise	DFA-BIO-IFS-3	 Protocol surveys, as described in DFA-BIO-IFS-1 and shown in Table 21, are required for development in the desert tortoise survey areas (see Appendix D). Based on the results of the protocol surveys the identified desert tortoises will be translocated, or the activity will be redesigned/relocated as described below: If protocol surveys identify 35 or fewer desert tortoises in potential impact areas on an activity site, the USFWS and CDFW (for third party activities) will be contacted and provided with the protocol survey results and information necessary for the translocation of identified desert tortoises. Pre-construction and construction, and other activities will not begin until the clearance surveys for the site have been completed and the desert tortoises have been translocated. Translocation will be conducted in coordination with the USFWS and CDFW, as appropriate, per the protocols in the Desert Tortoise Field Manual (USFWS, 2009) and the most up-to-date USFWS protocol. If protocol surveys identify an adult desert tortoise density (i.e., individuals 160 millimeters or more) of more than 5 per square mile or more than 35 individuals total on a project site, the project will be required to be redesigned, re-sited, or relocated to avoid and minimize the impacts of the activity on desert tortoise 	The Project will comply with this CMA and the protocol survey requirements. Wildlife surveys have been completed. The methodologies and surveys results are included in the Biological Resources Technical Report.
Recreation	DFA-REC-1	Retain, to the extent possible, the identified recreation setting characteristics: physical components of remoteness, naturalness and facilities; social components of contact, group size and evidence of use; and operational components of access, visitor services and management controls (see recreation setting characteristics matrix).	The Project is surrounded by recreational opportunities and by built environment, including existing and approved renewable energy projects. The Project would be located in a DFA and the area does not experience high levels of recre- ation. It would not maintain or enhance the setting but would be consistent with the existing setting and with the DFA designation.
	DFA-REC-4	When considering large-scale development in DFAs, retain to the extent possible existing, approved recreation activities.	The Project is in a DFA, but would not impact approved, recreation activities.
	DFA-REC-5	For displacement of dispersed recreation opportunities, commensurate com- pensation in the form of enhanced recreation operations, recreation facilities or opportunities will be required. If recreation displacement results in resource damage due to increased use in other areas, mitigate that damage through whatever measures are most appropriate as determined by the Authorized Officer.	The Project would not displace recreation opportunities as the Project area is infrequently used for recreation.
	DFA-REC-7	If designated vehicle routes are directly impacted by activities (includes modifi- cation of existing route to accommodate industrial equipment, restricted access or full closure of designated route, pull outs, and staging area's to the public, etc.), mitigation will include the development of alternative routes to allow for continued vehicular access with proper signage, with a similar recreation experience. In addition, mitigation will also include the construction of an "OHV touring route" which circumvents the activity area and allows for interpretive	The Project would close some existing open routes. These routes do not lead to a specific recreational area so alter- native routes would not be feasible. However, the Applicant could contribute funds if necessary to enhancing an existing OHV touring route, such as within the Chuckwalla SRMA which would allow for a similar recreation experience. The Project will comply with this CMA.

DRECP CM	DRECP CMAs - Development Focus Areas		
Category	CMA #	CMA Text	Comments
		signing materials to be placed at strategic locations along the new touring route, if determined to be appropriate by BLM.	
	DFA-LANDS-7	Transmission facilities are an allowable use and will not require a plan amend- ment within DFAs.	The gen-tie line would be located within a DFA and does not require a plan amendment
Visual Resources Management	DFA-VRM-1	Manage all DFAs as VRM Class IV to allow for industrial scale development. Employ best management practices to reduce visual contrast of facilities.	The Project will implement BMPs, as necessary, to comply with this CMA.
	DFA-VRM-2	 Regional mitigation for visual impacts is required in DFAs . Mitigation is be based on the VRI class and the underlying visual values (scenic quality, sensitivity, and distance zone) for the activity area as it stands at the time the ROD is signed for the DRECP LUPA. Compensatory mitigation may take the form of reclamation of other BLM lands to maintain (neutral) or enhance (beneficial) visual values on VRI Class II and III lands. Other considerations may include acquisition of conservation easements to protect and sustain visual quality within the viewshed of BLM lands. The following mitigation ratios will be applied in DFAs: VRI Class II 1:1 ratio VRI Class IV, no mitigation required 	The Project is located on land with VRI Class IV, so no mitiga- tion is required. The Project will comply with this CMA.
		Additional mitigation will be required where activities affect viewsheds of specially designated areas (e.g., National Scenic and Historic Trails).	

Appendix D

Notice of Determination

To:	Office of Planning and Resear	ch	From: Public Agency: <u>County of Riverside</u>
	U.S. Mail:	Street Address:	Address: <u>4080 Lemon Street, 12th Floor</u> Riverside, CA 92501
	P.O. Box 3044	1400 Tenth St., Rm 113	Contact: Tim Wheeler
	Sacramento, CA 95812-3044	Sacramento, CA 95814	
_			Phone: (915) 955-6060
	County Clerk County of:		Lead Agency (if different from above):
	Address:		
			Address:
			Contact:
			Phone:

SUBJECT: Filing of Notice of Determination in compliance with Section 21108 or 21152 of the Public Resources Code.

State Clearinghouse Number (if submitted to State Clearinghouse): 2022-11-0240

Project Title: Easley Renewable Energy Project

Project Applicant: IP Easley I, LLC, IP Easley II, LLC, and IP Easley III, LLC

Project Location (include county): N of 10 Fwy/Oasis Rd-NE Hwy 177/Rice Rd-E Kaiser Rd-S of Investor

Project Description:

CUP220021, PUP230002, APD230001, 002, 003 & DA2200016; together these approvals authorize construction, operation, & maintenance of an up to 390 megawatt (MW) solar power plant with up to a 650 MW battery storage (BESS) & appurtenant facilities on ~3,685 acres of private land (County) & public land (BLM). The approvals also authorize gen-tie crossings of roadways under County jurisdiction; a development agreement consistent with Board of Supervisors Policy No. B-29, and agricultural

This is to advise that the Riverside County Board of Supervisors has approved the above (
Lead Agency or Responsible Agency)

described project on <u>August 27, 2024</u> and has made the following determinations regarding the above (date)

described project.

- 1. The project [will will not] have a significant effect on the environment.
- 2. An Environmental Impact Report was prepared for this project pursuant to the provisions of CEQA.
 A Negative Declaration was prepared for this project pursuant to the provisions of CEQA.
- 3. Mitigation measures [were D were not] made a condition of the approval of the project.
- 4. A mitigation reporting or monitoring plan [was involved was not] adopted for this project.
- 5. A statement of Overriding Considerations [was not] adopted for this project.
- 6. Findings [were \Box were not] made pursuant to the provisions of CEQA.

This is to certify that the final EIR with comments and responses and record of project approval, or the negative Declaration, is available to the General Public at:

https://planning.rctlma.org/ip-easley-solar-plant-project-cup220021

Signature (Public Agency): Tim Wheel	Title: Project Planner
Date: 8/28/2024	Date Received for filing at OPR:

Authority cited: Sections 21083, Public Resources Code. Reference Section 21000-21174, Public Resources Code.

Revised 2011

Board of Supervisors

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County of Riverside

RESOLUTION NO. 2024-205

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ENVIRONMENTAL IMPACT REPORT STATE CLEARINGHOUSE NO. 2022-11-0240 (SCH2022110240), CONDITIONAL USE PERMIT NO. 220021 (CUP220021), PUBLIC USE PERMIT NO. 230002 (PUP230002), DEVELOPMENT AGREEMENT NO. 2200016 (DAN2200016)

WHEREAS, pursuant to the provisions of Government Code Section 65350 et. seq., public hearings were held before the Riverside County Board of Supervisors in Riverside, California on August 27, 2024, to consider Conditional Use Permit No. 220021 (CUP220021), Public Use Permit No. 230002 (PUP230002), Development Agreement No. 2200016 (DAN2200016), Environmental Impact Report State Clearinghouse No. 2022-11-0240 (SCH2022110240); and,

WHEREAS, all procedures of the California Environmental Quality Act (CEQA) and Riverside County Rules to Implement CEQA have been followed, and Environmental Impact Report State Clearinghouse No. 2022-11-0240 (SCH2022110240), which is denying the proposed project and adopting the Alternative B: Reduced Footprint Alternative as the preferred project, prepared to consider Conditional Use Permit No. 220021 (CUP220021), Public Use Permit No. 230002 (PUP230002), Development Agreement No. 2200016 (DAN2200016) and related cases (referred to alternatively herein as "the Project"), is sufficiently detailed so that all of the potentially significant effects of the Project on the environment and measures necessary to avoid or substantially lessen such effects have been evaluated in accordance with CEQA and the above-referenced Rules; and,

WHEREAS, pursuant to State CEQA Guidelines section 15151, the evaluation of environmental effect is to be completed in light of what is reasonably feasible; and,

WHEREAS, the Mitigation Monitoring and Reporting Plan (MMRP) required to be adopted by this Board upon approval of the Project pursuant to State CEQA Guidelines section 15091(d) is attached hereto as <u>Exhibit "A"</u> and incorporated herein by reference. The MMRP lists the potential significant impacts of the Project, the Applicant-proposed measures and mitigation measures to be imposed on the Easley

APPROVED COUNTY COUNSEL

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Renewable Energy Project, all of which are applicable to the preferred project, and the agency or entity responsible for compliance or enforcement of said measures; and,

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WHEREAS, the Riverside County Planning Department first circulated a Notice of Preparation (NOP) for a greater than 30-day public review period commencing November 14, 2022, and held one public scoping meeting on December 5, 2022. The County prepared a Draft EIR (State Clearinghouse No. 2022-11-0240) to address the consideration of Conditional Use Permit No. 220021 (CUP220021), Public Use Permit No. 230002 (PUP230002), and Development Agreement No. 2200016 (DAN2200016). The Draft EIR was circulated for public review and comment as specified in the State CEQA Guidelines for a 45-day period (January 26, 2024, to March 11, 2024).

The County determined that new or clarified information required recirculation of certain chapters of the original Draft EIR in accordance with Section 15088.5 of the State CEQA Guidelines. In compliance with CEQA, the County prepared and circulated for public review and comment a Partially Recirculated Draft EIR for the Easley Project for a 45-day period (May 24, 2024, to July 8, 2024).

Public comments were received by the County and have been responded to by the County in accordance with CEQA requirements. The Project Final EIR Responses to Comments document was published prior to the August 27, 2024, Board of Supervisors hearing (the "Responses"),

www.WHEREAS the matter was discussed fully with testimony and documentation presented by the public and affected government agencies; now, therefore,

BE IT RESOLVED, FOUND, DETERMINED, AND ORDERED by the Board of Supervisors of the County of Riverside, in regular session assembled on August 27, 2024, that:

- A. The Project includes Conditional Use Permit No. 220021 (CUP220021), Public Use Permit
 No. 230002 (PUP230002), Development Agreement No. 2200016 (DAN2200016) which
 were all considered concurrently at the public hearings before the Board of Supervisors.
- B. An EIR was prepared that evaluates CUP220021 and PUP230002. The EIR analyzed the Project's potential significant effects on the environment and made the required findings in compliance with the State CEQA Guidelines and Riverside County CEQA implementing procedures based on the proposed project as well as Alternative B: Reduced Footprint Alternative, which is the chosen preferred project. Based on the findings and conclusions in

the EIR and the conditions of approval applied to the Project by the County of Riverside, CUP220021 and PUP230002 will not be detrimental to the health, safety, or general welfare of the community.

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BE IT FURTHER RESOLVED by the Board of Supervisors that the following environmental impacts associated with EIR No. SCH2022110240 are determined to be less than significant in consideration of existing regulations and Project Design Features, with no need for mitigation. EIR No. SCH2022110240 evaluated impacts of the proposed Project as defined in Section ES.3 and Chapter 2 of the EIR, as well as the impacts related to Alternative B: Reduced Footprint Alternative. The Applicant's Preferred Alternative is now Alternative B: Reduced Footprint Alternative, as described in Section 2.8.3 of the EIR ("Alternative B"). Alternative B is similar to the Proposed Project but would remove approximately 50 acres of solar panels, move the onsite substation and BESS at least 0.7 mile to the northeast and farther from the Lake Tamarisk community, and would increase the length of the gen-tie line by approximately 0.8 mile to 7.5 miles long. Because Alternative B has a smaller footprint but otherwise similar characteristics and impacts as described in Table 5-1 of the EIR, the following findings with respect to the proposed Project are also applicable to Alternative B.

A. .

Agriculture and Forestry Resources

Impact: Converting Farmland to Non-Agriculture use (AG-1)

Threshold: The Project would not conflict with existing zoning for agricultural use, a Williamson Act contract, or land within an agricultural preserve.

Findings of Fact, Less Than Significant:

The proposed Project would be constructed on approximately 220 acres of land zoned as Light Agriculture (A-1). Under Ordinance No. 348.4705, solar power plants are permitted in zone A-1 land on a lot 10 acres or larger, provided a conditional use permit is granted. All A-1 parcels that are part of the Project area are greater than 10 acres. Therefore, the Project would not conflict with existing zoning for agricultural use.

Project development would conflict with the Williamson Act contracts recorded against

parcels within the Project site and with the inclusion of those parcels in the agricultural preserves within which they currently reside. Cancellation of Williamson Act contracts and removal of project lands from County Agricultural preserves would be required prior to Project development, thereby resolving any agricultural preserve- or Williamson Act-related conflicts. If the Williamson Act contracts are cancelled and lands within the Project site are removed from County Agricultural Preserves at the time of Project approval, this impact would be avoided. (EIR pp. 3.3-7 and 3.3-8).

Impact: Development of non-agricultural use (AG-2)

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Threshold: The Project would not result in an impact due to development of nonagricultural uses within 300 feet of agriculturally zoned property (Ordinance No. 625, "Right-to-Farm").

Findings of Fact, Less Than Significant:

The proposed Project would not result in the conversion of adjacent farmland properties to non-agricultural use during the Project's minimum 35-year existence. The proposed Project would not introduce a non-agricultural use that is incompatible with agricultural operations that would occur nearby. The construction and operation of the proposed Project would not cause substantial changes to the existing environment such as changes to air quality, water supply, drainage, shading of adjacent lands, increased heat or other resources that could impact adjacent agriculture uses or lands. (EIR p. 3.3-8 and 3.3-9).

Impact: Conflict with existing agricultural uses or preserves (AG-3)

Threshold: The Project would not conflict with land within a Riverside County Agricultural Preserve.

Findings of Fact, Less Than Significant:

A portion of the Project area with solar facilities, substation, switchyard, BESS, and the gentie line occur within a Riverside County Agricultural Preserve under the Williamson Act, which is incompatible with the Project. Cancellation of Williamson Act contracts and removal of Project lands from County Agricultural Preserves would be required prior to

Project development, thereby resolving any agricultural preserve- or Williamson Act-related 1 conflicts. (EIR pp. 3.3-9). 2 3 **B**. **Air Quality** Impact: Air Quality Standards(AQ-1) 4 Threshold: The proposed Project would not conflict with or obstruct implementation of the 5 applicable air quality plan. 6 Findings of Facts, Less Than Significant: 7 Regional air quality plans anticipate a baseline level of construction activity and some 8 permanent population growth, and air quality attainment planning anticipates growth that 9 includes the construction of some new infrastructure, such as the solar facility. A project 10 could be inconsistent with the applicable air quality management plan or attainment plan if 11 it causes population and/or employment growth or growth in vehicle-miles traveled in excess 12 of the growth forecasts included in the attainment plan. The Project would employ up to 10 13 permanent staff and the construction workforce would involve short-term employment. 14 Accordingly, Project construction and operation would not result in activities. Therefore, the 15 Project would not conflict with or obstruct implementation of the applicable air quality plan. 16 17 (EIR p. 3.4-7) Impact: Odors (AQ-4) 18 Threshold: The Project would not result in other emissions (such as those leading to odors) 19 adversely affecting a substantial number of people. 20 Findings of Facts, Less Than Significant: 21 The proposed solar facility and gen-tie lines would not include any notable source of odors 22 or other emissions that could adversely affect people, because the nearest residential land 23 use to the Project site would be more than 200 meters (656 feet) away from all onsite activity, 24 therefore odors would not negatively affect a substantial number of people. (EIR p. 3.4-14). 25 **C**. Energy 26 **Impact:** Energy Efficiency (E-1) 27 Threshold: The Project would not result in a significant environmental impact due to 28

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wasteful, inefficient, or unnecessary consumption of energy resources during construction or operation.

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Findings of Fact, Less Than Significant:

The construction of the Project would consume fossil fuels, however, statewide requirements for minimizing emissions from off-road equipment and limitations on idling would ensure that activity levels are not wasteful. Further, construction is temporary and would cease upon the completion of construction. Once operational, the Project would require minimal maintenance activities and therefore would require up to 10 permanent staff to perform daily inspections, maintenance, and minor repairs. Due to the small workforce and limited number of vehicles and equipment required, there would be minimal energy use at the site. Additionally, the Project would generate renewable energy, which reduces the use of fossil fuels for electrical generation by conventional power plants. The Project would produce up to 1.4 million megawatt-hours (MWh) of electricity each year, which equates to 527,800 MT of CO2 emissions avoided per year. Furthermore, the battery storage component would have a beneficial effect of providing power during peak demand. (**EIR p. 3.7-4**).

D. Geology, Soils, and Mineral Resources

Impact: Geologic Hazards (GEO-1)

Threshold: The Project would not directly or indirectly cause substantial adverse effects, including the risk of loss, injury, or death, involving strong seismic ground shaking. Findings of Fact, Less Than Significant:

The Project site is not located on or near any known active or potentially active faults. However, seismically induced ground shaking due to earthquakes along the active faults in the region could occur and result in damage to Project structures. The Project would comply with applicable regulations and standards, and established engineering practices. A geotechnical investigation and report would be required and would include recommendations regarding design. The regulatory requirements put in place prior to final Project design and construction would minimize any potential impacts related to seismic effects. (EIR p. 3.8-13 to 3.8-14).

Impact: Geologic Hazards (GEO-2)

Threshold: The Project would not directly or indirectly cause substantial adverse effects, including the risk of loss, injury, or death, involving seismic related ground failure, including liquefaction.

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Findings of Fact, Less Than Significant:

The Project site may be subject to strong ground shaking, and is mapped by the County of Riverside to have moderate susceptibility to liquefaction. However, liquefaction usually occurs in areas with young, saturated unconsolidated sediments with groundwater levels of 50 feet or less. The Project is in an area with expected groundwater levels greater than 70 feet below ground surface, which results in a low potential for liquefaction. Additionally, all structures would be designed in compliance with applicable regulations and standards, geotechnical recommendations, and established engineering procedures, so the impact would be less than significant. (EIR pp. 3.8-14).

Impact: Geologic Hazards (GEO-4)

Threshold: The Project would not be located on a geological unit or soil that is unstable, or that would become unstable as a result of the Project, potentially resulting in on or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse.

Findings of Fact, Less Than Significant:

The Project site is in an area that has no landslide, lateral spreading, or rockfall hazard due to the flat to gentle slope and a low liquefaction potential. The Project is in an area mapped as susceptible to subsidence, however, given the local and regional setting, the potential for subsidence is considered to be very low and not significant, and therefore, the site is unlikely to become unstable as a result of subsidence and impacts would be less than significant. **(EIR p. 3.8-17)**.

Impact: Geologic Hazards (GEO-5)

Threshold: The Project would not be located on expansive soil creating direct or indirect risks to life and property.

Findings of Fact, Less Than Significant:

The soils in the Project area contain high percentages of sand and have a low potential to be expansive. Therefore, the potential for expansive soils to create direct or indirect risks to life or property are less than significant. (EIR p. 3.8-17).

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Impact: Soil Resources (GEO-6)

Threshold: The Project would not have soils incapable of supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater.

Findings of Fact, Less Than Significant:

During construction, portable restroom facilities would be provided for the construction crew. During operations, restroom facilities would be located adjacent to the O&M building and a self-contained septic system or a septic system and leach field would be used to serve the sanitary wastewater treatment needs. Soils in the Project area are somewhat excessively drained and contain high percentages of sand. Percolation testing and design of the septic system would be conducted to meet applicable County septic system requirements. The impact would be less than significant. (EIR p. 3.8-18).

Impact: Mineral Resources (MR-1)

Threshold: The Project would not result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state.

Findings of Fact, Less Than Significant:

No known mineral sites or mines are located on the Project site, and it is not under a claim, lease, or permit for the production of locatable, leasable, or saleable mineral or mineral materials. The site is located within MRZ 4, where there is not enough information available to determine the presence or absence of mineral deposits. As such, the Project would not result in the loss of availability of a known mineral resource of value to the region or residents of the state. Furthermore, the use of the site as a solar facility would restrict mineral exploration on this land only for the life of the Project, but it would not change the mineral content of the area. The Project site is underlain by alluvial materials that may contain aggregate resources but the Project would not appreciably reduce or restrict the

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availability of aggregate resources from outside the Project site and any potential on-site aggregate resources would become available again following decommissioning of the Project. (EIR p. 3.8-18) E. **Greenhouse Gas Emissions** *Impact: Greenhouse Gas Emissions (GHG-1)* Threshold: The Project would not generate greenhouse gas emissions that may have a significant impact on the environment. Findings of Fact, Less Than Significant: Construction, operations, and eventual decommissioning activities would cause greenhouse gases (GHG) emissions as a result of fossil-fuel combustion in the engines of construction equipment and the vehicles carrying construction materials and workers to and from the site. Diesel fuel or gasoline is used in mobilizing the heavy-duty construction equipment, site development and preparation, facility construction, and roadway construction, and eventual decommissioning. Installation of the Project would result in ground disturbance that would disturb soils and remove some vegetation that naturally provide carbon uptake. Ground disturbance and vegetation removal during construction accordingly adds to the GHG impact because a portion of the soils and vegetation onsite would no longer be present to sequester CO2. However, the production of renewable power would displace power produced by carbonbased fuels that would otherwise be used to meet electricity demand. The power displaced

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is incremental power provided by generators elsewhere on the grid, typically from natural gas power plants. Additionally, the proposed energy storage component would allow the solar facilities to shift the solar output to the grid-wide system during peak (evening) hours when the solar production has the most benefits (or is most valuable in deferring use of natural gas elsewhere). The combined direct and indirect effects of offsetting emissions from conventional power generation sources by implementing the proposed solar and energy storage facility indicates that a net GHG reduction in the region would occur with the proposed Project. (EIR pp. 3.9-5 to 3.9-7)

Impact: Greenhouse Gas Emissions (GHG-2)

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Threshold: The Project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases.

Findings of Fact, Less Than Significant:

Electricity from the solar facility would be used to serve the needs of customers and would facilitate compliance with the renewable portfolio standards (RPS), as set forth by Senate Bill (SB) 350 and SB 100. The GHG emissions avoided by producing electricity would be consistent with and would not conflict with the California's GHG emissions reduction targets, as set forth by Assembly Bill (AB) 32, SB 32, and the Climate Change Scoping Plan. Overall, the electricity produced by the Project would contribute to the continued reduction of GHG emissions in California's power supply. As the total GHG emissions generated by construction and operation of the proposed Project would be considerably less than the GHG emissions avoided, the solar facility would lead to a net reduction in GHG emissions across the State's electricity system, which would contribute to meeting the State's GHG reduction goals under AB 32 and subsequent targets for 2030 and beyond. The proposed Project would not conflict with any applicable GHG management plan, policy, or regulation. (EIR pp. 3.9-7 and 3.9-8).

F. Hazards and Hazardous Materials

Impact: Aviation Hazards (HAZ-4)

Threshold: The Project is located within 2 miles of a public use airport and would not result in a safety hazard or excessive noise for people residing or working in the Project area. <u>Findings of Fact, Less Than Significant</u>:

The proposed Project is located within 2 miles of the Desert Center Airport, which is now owned by the Chuckwalla Valley Raceway and is no longer included in the Riverside County Circulation Element. The Project site is not located within the Airport Influence Area Boundary nor any of the airport Compatibility Zones. The gen-tie line structures are the only components of the solar facility that would be potentially over 100 feet tall. The gen-tie

structures would be on average 120 feet tall, with a maximum height of 199 feet and located approximately 2 to 2.5 miles south and southwest of the single east-west trending runway. The closest Project element would be approximately 1 mile northwest from the runway. Low level military training flight paths are located crossing and in the vicinity of the Project and the gen-tie line structures could potentially represent an aviation hazard to low level training flights. Depending on the outcome of the BLM-DoD consultation, infrared obstruction lighting may be installed on structures over 180 feet high that are located in areas where the new structures would be taller than existing nearby structures. Compliance with BLM-DoD required lighting would reduce potential impacts to low level training flights to less than significant.

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The PV solar panels for the proposed Project would not create significant adverse impacts from reflection and glare. Glint and glare from solar projects to pilots on final approach is similar to glint and glare pilots routinely experience from water bodies, glass facade buildings, parking lots, and similar features. According to the model results for the Project, the flight path receptors on the Desert Center Runway Approach would not be impacted by glare from the solar panels and some portions of the ground-level routes and military training routes may have a low potential of being impacted by green glare. The Project would not be a substantial source of glare for pilots in the area. The proposed Project would not include residential or commercial uses that would be affected by operations at the Desert Center Airport. Impacts to the airport due to the Project structures or glare would be less than significant, and impacts to the safety of people residing or working in the Project area would be less than significant. (**EIR pp. 3.10-20 and 3.10-21**).

Impact: Emergency Response (HAZ-5)

Threshold: The Project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.

Findings of Fact, Less Than Significant:

Construction of the solar facility is not expected to require any temporary lane closures that could restrict the movements of emergency vehicles.

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The Project site would have controlled access points for ingress and egress through up to 1 five primary and three secondary driveway entrances, none of which are near the Lake 2 Tamarisk Desert Resort community, and therefore, would not cause an interference of 3 emergency access. These access points would allow for emergency vehicle access into and 4 through the site. Once constructed, maintenance activities would occur as needed at the solar 5 facility but are not expected to require any temporary travel lane closures that could restrict 6 emergency vehicle movements. (EIR p. 3.10-21). 7 Land Use and Planning 8 G. Impact: Land Use Consistency (LU-1) 9 Threshold: The Project would not cause a significant environmental impact due to conflict 10 with applicable land use plans, policies, or regulations. 11 Findings of Fact, Less Than Significant: 12 Construction, operations and maintenance, and decommissioning of the Project would be 13 consistent with the Riverside County General Plan, Desert Center Area Plan, CDCA Plan as 14 Amended, and County Ordinances. 15 The Project would be a conditionally permitted use within the land use designation Open 16 Space Rural (OS-RUR) and Natural Assets (N-A) with approval of a conditional use permit 17 (CUP) and completion of an environmental review. Table 3.12-1 of the Final EIR describes 18 how the Project would be consistent with the Land Use and Multi-Purpose Open Space 19 Elements. 20 The Applicant is also seeking to merge contiguous Project parcels. Roads along the Project 21 perimeter of the solar facility lands (Rice Road and Kaiser Road) would remain dedicated 22 public access. Access on existing unimproved roads to private and public lands not included 23 in the Project site would remain unimpeded. This merger would be consistent with LU 26.4, 24 encourage parcel consolidation, and because the perimeter roads and unimproved access 25 roads would remain open to the public, it would not result in a loss of access. 26 The existing and known planned land uses surrounding the Project are similar in nature to 27 those identified for the Project, primarily Open Space Rural. The parcels in the vicinity of 28

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the solar facility are zoned N-A, W-2-10, A-1-20 (Light Agriculture [20-acre minimum]), C-P-S (Scenic Highway Commercial), M-H (Manufacturing Heavy), all of which allows solar power development on a lot 10 acres or larger with a CUP.

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The Project would be consistent with all applicable General Plan policies and goals. The Project is subject to Policy B29, and the developer would need to enter into a development agreement with the County following the guidelines noted in the regulatory setting. Once the agreement is approved, the Project would comply with this policy. (EIR pp. 3.12-8 to 3.12-12).

H. Noise

Impact: Vibration (N-2)

Threshold: The Project would not result in excessive groundborne vibration or groundborne noise levels.

Findings of Fact, Less Than Significant:

Vibration from routine construction equipment and activities, and vehicle traffic might be perceptible to people in the immediate vicinity of construction activities, usually limited to a region of influence of approximately 200 feet. The nearest home in the Lake Tamarisk Desert Resort is approximately 260 feet away from the boundaries of the Project. During construction, the impact or vibratory pile drivers used for installing posts would have the greatest radius of potential ground-borne vibration impacts, however, this construction activity would be set back substantially from property boundaries. When necessary to install posts near the proposed Project site boundaries, use of pile drivers could result in vibration that would be perceptible and potentially annoying within 100 feet of the source, however, at a distance of 100 feet the level would attenuate to below 0.1 in/sec, which is below the County threshold level that would be annoying to occupants of a building. Because offsite vibration levels would be low enough to avoid causing an annoyance, they would be unlikely to cause structural damage. Impacts from vibration would be localized and temporary (i.e., infrequently recurring at any single location), and therefore, would not be excessive, resulting in a less than significant impact. (EIR pp. 3.13-12 and 3.13-13).

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I. <u>Population and Housing</u>

Impact: Population Growth (PH-1)

Threshold: The Project would not induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure).

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Findings of Fact, Less Than Significant:

During the 20-month construction period of the proposed Project, the on-site workforce is expected to reach a peak of approximately 530 individuals with an average construction-related on-site workforce of 320 individuals. The construction workforce would largely be recruited from within Riverside and San Bernardino Counties. It is anticipated that many workers are likely to engage in weekly commuting or otherwise temporarily relocate to the Desert Center region while working at the Project area. There are sufficient vacant housing units within the local communities to support the number of construction workers to the extent that they are not drawn from local communities. During operation of the proposed Project, up to 10 permanent staff could be on the site at any one time for ongoing facility maintenance and repairs. The permanent staff are not anticipated to increase the local population and vacancy rates within the study area offer ample available housing to operational employees wishing to relocate within the local study area. (EIR pp. 3.15-3 and 3.15-4).

J.

Public Services and Utilities

Impact: Public Service Levels (PSU-1)

Threshold: The Project would not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities; and/or result in the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for public services.

Findings of Fact, Less Than Significant:

During construction, there is the potential for both small fires and major structural fires. Electrical sparks, combustion of fuel oil, hydraulic fluid, mineral oil, or insulating fluid at substations, or flammable liquids, explosions, and over-heated equipment may cause small fires. However, this would be temporary and the proposed Project would not result in a permanent increase in demand for fire protection services over existing levels during construction. Additionally, a Fire Prevention Plan was developed and would decrease the risk of fires and include fire response measures to be implemented on-site. During construction, on-site security would include trained, uniformed, and unarmed personnel whose primary responsibility would be to control ingress and egress of personnel and vehicles, perform fire and security watch during off hours, and perform security badge administration, all of which would minimize the potential need for assistance from the Riverside County Sheriff's Department. The proposed Project would not cause population growth sufficient to generate a need for new or expanded public service facilities, such as schools, parks, or other public facilities. (EIR pp. 3.15-6 to 3.16-8).

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Impact: Utility Service Levels (PSU-2)

Threshold: The Project would not require or result in the relocation or construction of new or expanded water, wastewater treatment, storm water drainage, electric power, natural gas, or telecommunications facilities, which could cause significant environmental effects. Findings of Fact, Less Than Significant:

The proposed Project would not cause population growth sufficient to generate a need for new or expanded utilities. Grading could alter naturally occurring drainage patterns and result in soil erosion, sedimentation, long-term siltation, and increased storm water runoff. As part of the Project, a Storm Water Pollution Prevention Plan (SWPPP) would be prepared and implemented before and during construction. The SWPPP would be designed to reduce potential impacts from storm water runoff and existing drainage patterns, and would include BMPs which would ensure that the proposed Project would not require or result in the construction of new storm water drainage facilities or expansion of existing facilities. (EIR **pp. 3.16-9**).

Impact: Water Supply (PSU-3)

Threshold: The Project would not have insufficient water supplies available to serve the Project and reasonably foreseeable future development during normal, dry and multiple dry years.

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Findings of Fact, Less Than Significant:

Water for operations, construction needs, and related dust control would be obtained from either an on-site groundwater well or purchased off site. Water tanks would likely be set up by any groundwater wells and near the O&M building. These water sources would tap into the Chuckwalla Valley Groundwater Basin (CVGB). A Water Supply Assessment was conducted, included in the EIR as Appendix G, and concluded that the CVGB's current annual groundwater recharge and outflows are almost balanced, and all estimated groundwater demand for the Project may be sourced from the CVGB without resulting in a groundwater deficit under average climatic conditions using conservative groundwater recharge estimates. Using normal recharge data, the available water supplies during normal, single, dry, and multiple dry water years from the CVGB would meet the projected water demands of the Project, in addition to existing uses. Additionally, the water budget indicates the CVGB water balance would be in a state of surplus after the 52-year period under normal conditions with the Project in place. Based on available historical data, storage capacity and hydrogeologic properties of the CVGB, the presented CVGB water budget, and the modeled cone of depression from Project pumping, the Project is not anticipated to negatively impact groundwater storage, nor cause substantial impact to the available quantity of groundwater in the CVGB that affects beneficial uses. Therefore, the available water supplies during normal, single dry, and multiple dry water years from the CVGB would meet the projected water demands of the Project, in addition to existing uses and foreseeable future development. (EIR p. 3.16-10).

Impact: Solid Waste (PSU-4)

Threshold: The Project would not generate solid waste in excess of State or local standards,

or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals.

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Findings of Fact, Less Than Significant:

Construction materials would be sorted on-site throughout construction and transported to appropriate waste management facilities. Recyclable materials would be separated from non-recyclable items and stored until they could be transported to a designated recycling facility. All contractors and workers would be educated about waste sorting, appropriate recycling storage areas, and how to reduce landfill waste. Non-hazardous waste generated during Project operations would be limited to office uses associated with the proposed O&M building and include paper, aluminum, food, and plastic and would be managed similarly to during construction with non-hazardous items being recycled where possible or otherwise disposed of at the municipal-county landfills. The Project would comply with applicable federal, State, and local regulations related to solid waste and sufficient capacity is anticipated at the two nearest waste disposal sites. (EIR p. 3.16-11).

K. <u>Recreation</u>

Impact: Recreational Facilities (REC-1)

Threshold: The Project would not increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated.

Findings of Fact, Less Than Significant:

The proposed Project would not cause population growth sufficient to generate a need for new or expanded recreational facilities. Several BLM Open Routes would be near the Project, with most unaffected. One BLM Open Route (DC536-1) one would be blocked by the Project, resulting in a loss of 1.2 miles of this route. However, there is a parallel route which would maintain connectivity, and the blockage of one route would not substantially increase the use of other routes. The visual change at the site could affect visitors seeking experiences in a natural setting. Night lighting for the solar PV project is expected to be minimal, so little detrimental effect to night skies and star gazing would be anticipated. The

area is used for military training flights. If aviation safety lighting is installed on any gen-tie line poles, the lighting would be infrared, and thus, would not be visible to the human eye and would not detract from the dark night sky for which the region is noted. Overall, these impacts could affect users' perception of solitude, naturalness and unconfined recreation. While the Project would result in indirect impacts to recreation, it is not anticipated that the Project would result in a significant change in use of the nearby recreation facilities that would increase the use of other regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated. The impact would be less than significant. **(EIR pp. 3.17-9 and 3.17-10)**.

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BE IT FURTHER RESOLVED by the Board of Supervisors that the following environmental impacts associated with the EIR No. SCH2022110240 are potentially significant unless otherwise indicated, but each of these impacts will be avoided or substantially lessened to a level of less than significant through existing regulations, Project Design Features, and/or, with respect to the portion of the Project on private land, mitigation measures specified in Attachment A (Mitigation Monitoring and Reporting Program) which is incorporated herein by this reference, and/or, with respect to the portion of the Project on BLM-administered land, implementation of the DRECP Conservation and Management Actions (CMAs), which are detailed in EIR Appendix CC. DRECP CMAs identify a specific set of avoidance, minimization, and compensation measures, and allowable and non-allowable actions for siting, design, pre-construction, construction, maintenance, implementation, operation, and decommissioning activities for renewable energy projects developed within the DRECP. The CMAs are identified within the DRECP and are intended to provide certainty regarding the avoidance and minimization measures, design features, and compensation/mitigation measures required for renewable energy development within the DRECP. As such, it is reasonable to conclude the BLM will require the Project to comply with CMAs during the construction, operation, maintenance and decommissioning of the Project.

Accordingly, with respect to the portion of the Project on private land, the County makes the following finding as to each of the following impacts pursuant to State CEQA Guidelines section 15091(a): "Changes or alterations have been required in, or incorporated into, the Project which avoid or substantially lessen the significant environmental effect as identified in the final EIR." With respect to the portion of the

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Project on BLM-administered land, the County makes the following finding as to each of the following impacts pursuant to State CEQA Guidelines section 15091(a): "Changes or alterations that will avoid or substantially lessen these significant effects are within the responsibility and jurisdiction of another public agency and not the County making the finding. The other public agency (in this case the BLM) can and should adopt these changes; therefore, the impact is reduced to less than significant."

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EIR No. SCH2022110240 evaluated impacts of the Proposed Project as defined in Section ES.3 and Chapter 2 of the EIR. The Applicant's preferred project is Alternative B: Reduced Footprint Alternative, as described in Section 2.8.3 of the EIR ("Alternative B"). Alternative B is similar to the Proposed Project but would remove approximately 50 acres of solar panels, move the on-site substation and BESS at least 0.7 mile to the northeast and farther from the Lake Tamarisk community, and would increase the length of the gen-tie line by approximately 0.8 mile. Because Alternative has a smaller footprint but otherwise similar characteristics and impacts as described in Table 5-1 of the EIR, the following findings with respect to the Proposed Project are also applicable to Alternative B.

A. <u>Aesthetics</u>

Impact: Visual Quality (AES-1)

Threshold: The Project would not substantially degrade the existing visual character or quality of public views of the site and its surroundings with implementation of mitigation measures.

Findings of Fact, Construction and Decommissioning: Less Than Significant with Mitigation Measures:

Project construction and decommissioning activities could cause short-term direct and indirect aesthetic impacts from visible presence of equipment and construction activities. The Project's visible contrast associated with temporary ground disturbance and vegetation removal, temporary fugitive dust during construction, and temporary uncontrolled night lighting during construction can be reduced to levels that would be less than significant through the implementation of Biological Resources Mitigation Measure (MM) BIO-5, MM AQ-1, and MM AES-3, respectively and the applicable DRECP CMAs detailed in EIR Appendix CC, including LUPA-AIR-5 (fugitive dust management), and LUPA-BIO-13

(night lighting plan). MM BIO-5 would include revegetation of disturbed areas and retention of existing vegetation such that visual contrast and visual access is reduced, MM AQ-1 would include the reduction of fugitive dust emission through stabilization of soils, and MM AES-3 would include lighting management and control systems that would result in reduced night lighting impacts. With implementation of the mitigation measures and DRECP CMAs identified in the FEIR's analysis of impacts to aesthetics, the Project's impacts would be less than significant. (EIR pp. 3.2-17 to 3.2-19).

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Mitigation Measures:

MM AES-3 (Night Lighting Management Plan). To the extent feasible, consistent with safety and security considerations, the Project owner shall design and install all permanent exterior lighting and all temporary construction lighting such that: (a) lamps and reflectors are not visible from beyond the Project site, including any off-site security buffer areas; (b) lighting does not cause excessive reflected glare; (c) direct lighting does not illuminate the nighttime sky, except for required FAA aircraft safety lighting; (d) illumination of the Project and its immediate area is minimized; and (e) it complies with local policies and ordinances.

The Project owner shall also consult with the NPS Night Sky Program Manager in the devel-opment of the night lighting and comply with stricter standards for light intensity. All permanent light sources shall be below 3,500 Kelvin color temperature (warm white) and shall have cutoff angles not to exceed 45 degrees of nadir. The use of LED lighting with a Correlated Color Temperature (CCT) above 2,700 would introduce blue light into the environment that would have negative impacts on the night skies, wildlife, and visi-tors, and increase light pollution in that area. If LED light bulbs are used, they shall have a CCT of 2,700 or less. All lights, temporary and permanent, are to be fully shielded such that the emission of light above the horizontal is prevented. Prior to construction, the Project owner shall submit to BLM, Riverside County, and NPS JTNP for review a Night Lighting Management Plan that shall include the following:

A. Location and direction of light fixtures that take the lighting mitigation requirements into

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account;

B. Lighting that incorporates fixture hoods/shielding, with light directed downward or toward the area to be illuminated;

- C. Light fixtures, which are visible from beyond the Project boundary, that have cutoff angles that are sufficient to prevent lamps and reflectors from being visible beyond the Project boundary, except where necessary for security;
- D. All lighting that is of minimum necessary brightness consistent with operational safety and security;
- E. Lights in high illumination areas not occupied on a continuous basis (such as main-tenance platforms) that have (in addition to hoods) switches, timer switches, or motion detectors so that the lights operate only when the area is occupied;
- F. Specification that LPS or amber LED lighting shall be emphasized, and that white lighting (metal halide) would: (a) only be used when necessitated by specific work tasks;(b) not be used for dusk-to-dawn lighting; and (c) would be less than 3500 Kelvin color temperature;
- G. Specifications and mapping for of all lamp locations, orientations, and intensities, including security, roadway, and task lighting;
- H. Specifications for each light fixture and each light shield;
- I. Total estimated outdoor lighting footprint expressed as lumens or lumens per acre;
- J. Specifications on the use of portable truck-mounted lighting;
- K. Specifications for motion sensors and other controls to be used, especially for security lighting;
- L. Surface treatment specifications that shall be employed to minimize glare and skyglow;
- M. Documentation that the necessary coordination with the NPS Night Sky Program Manager has occurred; and
- N. Exterior lighting that complies with current Title 24 regulations from the State of California and that shall be coordinated with the California Department of Transport-a-tion (Caltrans) to comply with exterior lighting regulations along I-10 and

SR-177.

MM BIO-5 (Vegetation Resources Management Plan) Full Text under Biological Resources.

MM AQ-1 (Fugitive Dust Control Plan) Full Text under Air Quality.

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DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. CMAs specifically applicable under Impact AES-1 are detailed at FEIR pp., 3.2-18 through 3.2-20.

Impact: Light and Glare (AES-2)

Threshold: The Project would not create a new source of substantial light or glare which would adversely affect day or nighttime views in the area with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

Because permanent lighting would not be required for the arrays of photovoltaic panels, operational lighting would be confined to a small portion of the Project site that contains O&M facilities and the switchyard and is unlikely to be out of character with other existing lighting sources found scattered throughout the Chuckwalla Valley. Further, MM AES-3 includes standards that light intensity must be the minimum necessary to ensure worker safety and facility security, that direct lighting not illuminate the nighttime sky, and that Project night lighting does not adversely affect the dark sky viewing program at JTNP because it requires review and approval of the Project Lighting Mitigation Plan prepared under MM AES-3 by the NPS Night Sky Program Manager. This review would ensure that the Project meets the stricter night lighting specifications of the NPS Night Sky Viewing Program, and that lighting exposure levels (based on a Lumen Analysis) do not exceed the action threshold for NPS lands nor adversely affect JTNP's Night Sky Viewing Program. Additionally, hazard lighting may be required for the tallest gen-tie structures at crossing

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locations due to safety concerns with low-level military flights in the area. If installed, these lights would be infrared, and therefore, not visible to the human naked eye, and thus, would not create night lighting or Dark Sky impacts. (EIR pp. 3.2-29 and 3.2-30).

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Green glare is predicted at various levels along area roadways, and for some low-level military training routes that intersect the airspace above the Project. With implementation of MMs AES-1 (Surface Treatment of Project Structures and Buildings) and AES-2 (Project Design) and compliance with DRECP CMAs LUPA BIO-7, DFA-VPL-VRM-2, and DFA-VPL-VRM-3, any potentially significant glare impacts would be reduced to less than significant. These mitigation measures would reduce glare through the use of glare-reducing surface treatments and retention of vegetation to screen the Project and reduce visible reflectance. The Project would not be a substantial source of glare for travelers, including pilots in the area. Based on the modeling results along Kaiser Road, it is expected that any glare to the Lake Tamarisk community would be along the immediate western edge of the solar facility array field that is located northeast of the community. Since the community is set back farther from panels compared to modeled portions of Kaiser Road, glare impacts would be less than along Kaiser Road and similarly less than significant. The impact of daytime glare to views from Desert Center and the Lake Tamarisk Desert Resort would not be significant. It is expected that such glare impacts would be substantially less than that associated with other solar technologies because photovoltaic panels are less reflective, and it is anticipated that the resulting visual impact would be less than significant. With implementation of the mitigation measures and DRECP CMAs identified in the FEIR's analysis of impacts to aesthetics, the Project's impacts would be less than significant. (EIR pp. 3.2-28 and 3.2-29).

Mitigation Measures:

MM AES-1 (Surface Treatment of Project Structures and Buildings) . The Project owner

shall treat the surfaces of all non-temporary, large Project structures and buildings (e.g., O&M building, substation components, inverters, electrical enclosures, gen-tie poles and conductors) visible to the public such that: (a) their colors minimize visual intrusion and

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contrast by blending with (matching) the existing characteristic landscape colors; (b) their colors and finishes do not create excessive glare from surface brightness; and (c) their colors and finishes are consistent with local policies and ordinances. The transmission line conduc-tors shall be non-specular and non-reflective, and the insulators shall be non-reflective and non-refractive.

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Following a consultation with Riverside County and BLM visual resources specialists, and other representatives as deemed necessary, the Project owner shall submit for the County's and BLM's review, a specific Surface Treatment Plan that will satisfy these requirements. The consultation shall be in-field at the agencies' election, or as a desktop review if preferred by the agencies. The treatment plan shall include:

• A description of the overall rationale for the proposed surface treatment, including the selection of the proposed color(s) and finishes based on the characteristic land-scape. Colors shall be field tested using the actual distances from the KOPs to the proposed structures, using the proposed colors painted on representative surfaces;

• A list of each major Project structure and building, the transmission line towers and/or poles, and fencing, specifying the color(s) and finish proposed for each. Colors must be identified by vendor, name, and pantone number, or according to a univer-sal designation system;

• One set of color brochures or color chips showing each proposed color and finish;

A specific schedule for completion of the treatment; and

• A procedure to ensure proper treatment maintenance for the life of the Project. The Project owner shall not specify to the vendors the treatment of any buildings or structures treated during manufacture or perform the final treatment on any build-ings or structures treated in the field until the Project owner receives notification of approval of the treatment plan by Riverside County and the BLM. Subsequent modi-fications to the treatment plan are prohibited without the County's and BLM's approval for

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components under their respective authorities; however, the Project owner may consider the agencies' failure to respond to a request for review within 60 days an acceptance of the proposal.

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MM AES-2 (Project Design – Retention of Roadside Vegetation) The Project owner shall use proper design fundamentals to reduce the visual contrast to the characteristic landscape. These include proper siting and location; reduc-tion of visibility; repetition of form, line, color, and texture of the landscape; and reduc-tion of unnecessary disturbance. Design strategies to address these fundamentals shall be based on the following factors:

• Vegetation Manipulation: Retain as much of the existing vegetation as possible inclu-ding along roadsides to intercept sightlines from public vantage points. Use existing vegetation to screen the development from public viewing and lessen the visibility of structural contrast and glare. Use scalloped, irregular, cleared edges to reduce line contrast. Use irregular clearing shapes to reduce form contrast. Feather and thin the edges of cleared areas and retain a representative mix of plant species and sizes.

• Structures: Minimize the number of structures and combine different activities in one structure. Use natural, self-weathering materials and chemical treatments on surfaces to reduce color contrast and the potential for reflectance (glare). Bury all or part of structures to the extent practical. Use natural-appearing forms to comple-ment the characteristic landscape. Screen the structure from view by using natural landforms and vegetation. Reduce the line contrast created by straight edges.

• Linear Alignments: Use existing topography to hide induced changes associated with roads, lines, and other linear features. Select alignments that follow landscape con-tours. Avoid fall-line cuts. Hug vegetation lines.

• Reclamation and Restoration: Reduce the amount of disturbed area and blend the disturbed areas into the characteristic landscape. Where feasible, replace soil, brush, rocks, and natural debris over disturbed area. Newly introduced plant species should be of a form, color, and texture that blends with the landscape.

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MM AES-3 (Night Lighting Management) Full text under Aesthetic Resources.

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DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. CMAs specifically applicable under Impact AES-2 are detailed at FEIR pp., 3.2-28 through 3.2-29.

Impact: Visual Quality (AES-3)

Threshold: The Project would not result in the creation of an aesthetically offensive site open to public view with implementation of mitigation measures.

Findings of Fact, Construction and Decommissioning: Less Than Significant with Mitigation Measures:

For the reasons described in Impact AES-1, above, the Project's visible appearance associated with temporary construction can be reduced to levels that would be less than significant through the implementation of Biological Resources Mitigation Measure (MM) BIO-5, MM AQ-1, and MM AES-3, respectively, and the applicable DRECP CMAs detailed in EIR Appendix CC. With implementation of the mitigation measures and DRECP CMAs identified in the FEIR's analysis of impacts to aesthetics, the Project's impacts would be less than significant. (EIR pp. 3.2-17 to 3.2-19, 3.2-30).

Mitigation Measures:

MM AES-3 (Night Lighting Management Plan) Full text under Aesthetic Resources.

MM BIO-5 (Vegetation Resources Management Plan) Full text under Biological Resources.

MM AQ-1 (Fugitive Dust Control Plan) Full text under Air Quality.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. CMAs specifically applicable under Impact AES-1 are detailed at FEIR pp., 3.2-18 through 3.2-19

and 3.2-30.

Impact: Light and Glare (AES-4)

Threshold: The Project would not expose residential property to unacceptable light levels with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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For the reasons described in Impact AES-2, operational lighting would be confined to a small portion of the Project site and is unlikely to be out of character with other existing lighting sources found scattered throughout the Chuckwalla Valley. MM AES-3 includes standards to reduce light intensity and illumination of the night sky and impacts to the dark sky viewing program at JTNP. (EIR pp. 3.2-27 through 3.2-28 and 3.2-30).

Green glare is predicted at various levels along area roadways, and for some low-level military training routes that intersect the airspace above the Project. With implementation of MMs AES-1 (Surface Treatment of Project Structures and Buildings) and AES-2 (Project Design) and compliance with DRECP CMAs LUPA BIO-7, DFA-VPL-VRM-2, and DFA-VPL-VRM-3, any potentially significant impacts to light levels would be reduced to less than significant. With implementation of the mitigation measures and DRECP CMAs identified in the FEIR's analysis of impacts to aesthetics, the Project's impacts would be less than significant. (EIR pp. 3.2-28 through 3.2-29 and 3.2-30).

Mitigation Measures:

MM AES-1 (Surface Treatment of Project Structures and Buildings) Full text under Aesthetic Resources.

MM AES-2 (Project Design – Retention of Roadside Vegetation) Full text under Aesthetic Resources.

MM AES-3 (Night Lighting Management) Full text under Aesthetic Resources.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an

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explanation of their applicability, and demonstration of compliance with the CMA. CMAs specifically applicable under Impact AES-2 are detailed at FEIR pp., 3.2-29 through 3.2-30.

Impact: Policy Consistency (AES-5)

Threshold: The Project would not result in an inconsistency with regulatory plans, policies, and standards applicable to the protection of aesthetic with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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The Project will comply with federal and local regulatory plans, policies, and standards applicable to the protection of aesthetics. Further, implementation of MMs AES-1 and AES-3, as well as compliance with DRECP CMAs, LIPA BIO-7, LUPA-AIR-5, LUPA-BIO-13, DFA-VPL-VRM-2, and DFA-VPL-VRM-3 would mitigate the Project's aesthetic impacts and help to ensure the Project's consistency with Riverside County General Plan Land Use Element Policy LU 4.1 and Desert Center Area Plan Policy DCAP 4.1. (EIR pp. 3.2-30 to 3.2-35)

Mitigation Measures:

MM AES-1 (Surface Treatment of Project Structures and Buildings) Full text under Aesthetic Resources.

MM AES-2 (Project Design) Full text under Aesthetic Resources.

MM AES-3 (Night Lighting Management Plan) Full text under Aesthetic Resources.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, and explanation of their applicability, and demonstrative of compliance with the CMA. CMAs specifically applicable under Impact AES-5 are detailed at FEIR pp. 3.2-35.

B. <u>Air Quality</u>

Impact: Emission Compliance (AQ-2)

Threshold: The Project would not result in a cumulatively considerable net increase of any

criteria pollutant for which the Project region is nonattainment with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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The Project site is in an area designated as non-attainment for State-level ozone and PM10 standards. Emissions during the temporary 20-month duration of construction would include criteria air pollutants that could exceed quantitative thresholds for regional ozone precursors or PM10. Emissions exceeding the thresholds would represent a cumulatively considerable net increase of nonattainment pollutants that could contribute to existing or projected violations of the ambient air quality standards. Implementing mitigation would reduce construction-related NOx and PM10 due to the designation of the area as non-attainment for the State-level ozone and PM10 standards. As discussed in the EIR, with implementation of mitigation for dust control practices (MM AQ-1) and off-road equipment engine standards (MM AQ-2), as well as compliance with applicable DRECP CMAs, the maximum daily emissions of all pollutants during construction would be reduced to levels below the SCAQMD thresholds. The impact of increased criteria air pollutant emissions during construction would not be significant with mitigation. (EIR pp. 3.4-9 to 3.4-12). Emissions during O&M would be minor and would not exceed the SCAQMD thresholds. With minimal direct emissions during operation, operation of the Project would not result in a cumulatively considerable net increase of any criteria pollutant, and this impact of air pollutant emissions during Project operations would be less than significant, with no operational-phase mitigation required. (EIR p. 3.4-11).

Mitigation Measures:

MM AQ-1 (Fugitive Dust Control Plan) The Project owner, its contractor, or its subcontractor shall prepare and implement a Fugitive Dust Control Plan to address fugitive dust emissions during Project construction, operation, maintenance, and decommissioning. The plan shall include measures to minimize fugitive dust emissions from the commencement of construction activities through operations, maintenance, and

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decommissioning. In the case where the contractor obtains permit coverage under SCAQMD Rule 403, that permit and associated plan will be incorporated into the final Fugitive Dust Control Plan prepared by the Project owner. During construction, the Project owner, its contractor, and subcon-tractors shall take every reasonable precaution to prevent all airborne fugitive dust plumes from leaving the Project site, to prevent visible particulate matter from being deposited upon public roadways, and shall adhere to the SCAQMD rules. The plan shall be subject to review and approval by the SCAQMD (Rule 403).

The following measures would be included within the plan:

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- During construction, all unpaved roads, disturbed areas (e.g., areas of scraping, excavation, backfilling, grading, and compacting), and loose materials generated during construction activities shall be stabilized with a non-toxic soil stabilizer or soil weighting agent or watered two times daily or as frequently as necessary to minimize fugitive dust generation. Non-water-based soil stabilizers shall be as efficient as or more efficient for fugitive dust control than ARB-approved soil stabilizers and shall not increase any other environmental impacts, including loss of vegetation, adverse odors, or emissions of ozone precursor reactive organic gases (ROG) or volatile organic compounds (VOC). The proposed soil stabilizing products shall be listed in the Plan and are subject to review and approval by Riverside County, BLM, and CDFW. Any soil stabilizers proposed shall be consistent with those recommended in the Stormwater Pollution Prevention Plan (SWPPP) and shall also be approved for use by the project's Restoration Specialist to ensure that the products would not impede restoration goals.
- The main access roads through the site shall be either paved or stabilized using soil binders, or equivalent methods, to provide a stabilized surface that is similar for the purposes of dust control to paving, that may or may not include a crushed rock (gravel or similar material with fines removed) top layer, prior to commencing construction. Delivery, laydown, and staging areas for construction or operations and maintenance

1	supplies shall be paved or stabilized prior to taking initial deliveries.
2	• Grading and earthwork activities, including vegetation removal, cut and fill movement,
3	and soil compacting, shall be phased across the site to minimize the amount of exposed
4	or disturbed area on any single day.
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6	• No vehicle shall exceed 15 miles per hour on unpaved areas within the site, with the
7	exception that vehicles may travel up to 25 miles per hour on stabilized unpaved roads as
8	long as such speeds do not create visible dust emissions or conflict with other permit
9	conditions.
10	 Visible speed limit signs shall be posted at the construction site entrances.
11	- Visible speed mint signs shan be posted at the construction site chirances.
12	• All construction equipment vehicle tires shall be inspected and washed as necessary to be
13	cleaned free of dirt prior to entering paved roadways.
14	- All supressed suits from the construction site shall be supressed on treated to supress the sla
15	• All unpaved exits from the construction site shall be graveled or treated to prevent track-
16	out onto public roadways. No person shall allow track-out to extend 25 feet or more in
17	cumulative length from the point of origin from an active operation. All track out from an
18	active operation shall be removed immediately if it extends over 25 feet or if under 25
19	feet, at the end of each workday.
20	• All paved roads within the construction site shall be swept daily or as needed (less during
21	periods of precipitation) on days when construction activity occurs to prevent the
22	accumulation of dirt and debris.
23	- At least the first 500 fact of environment within a least within the construction of
24	• At least the first 500 feet of any paved public roadway exiting the construction site or
25	exiting other unpaved roads to access the construction site or staging areas shall be swept
26	as needed when dirt or runoff resulting from the construction activities is visible on the
27	paved public roadway.
28	MM AQ-2 (Control On-Site Off-Road Equipment Emissions) The Project owner, when

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entering into construction contracts or when procuring off-road equipment or vehicles for on-site construction or O&M activities, shall ensure that only new model year equipment or vehicles are obtained. The following measures would be included with contract or procurement specifications:

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- All construction diesel engines not registered under California Air Resources Board's Statewide Portable Equipment Registration Program, with a rating of 50 hp or higher shall meet the Tier 4 California Emission Standards for Off-Road Compression-Ignition Engines, as specified in California Code of Regulations, Title 13, section 2423(b)(1), unless a good faith effort demonstrates that such engine is not available for a particular item of equipment. In the event that a Tier 4 engine is not available for any off-road equipment larger than 100 hp, a Tier 3 engine shall be used or that equipment shall be equipped with retrofit controls to reduce exhaust emissions of nitrogen oxides (NOx) and diesel particulate matter (DPM) to no more than Tier 3 levels unless certified by the engine manufacturers that the use of such devices is not practical for specific engine types.
- All diesel-fueled engines used in the construction of the facility shall have clearly visible tags showing that the engine meets the standards of this measure.
- All equipment and trucks used in the construction or O&M of the facility shall be properly maintained and the engines tuned to the engine manufacturer's specifications.
- All diesel heavy construction equipment shall not idle for more than five minutes.
 Vehicles that need to idle as part of their normal operation (such as concrete trucks) are exempted from this requirement.

DRECP CMAs:

Applicable CMAs are detailed in the EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. CMAs specifically applicable under Impact AIR-2 are detailed at Appendix CC, pp., CC-22 through CC-

25.

Impact: Point Source Emissions (AQ-3)

Threshold: The proposed Project would not expose sensitive receptors to substantial pollutant concentrations.

Findings of Fact, Less Than Significant with Mitigation Measures:

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Criteria Air Pollutants. Construction-related emissions sources would be spread across the site and off-site. Particles of airborne fugitive dust may pose a health risk if inhaled because minerals such as silica or organic components present in the soils. All nearby residences would be more than 200 meters (656 feet) away from the nearest construction on the site. With implementation of dust control practices (MM AQ-1), and off-road equipment engine standards (MM AQ-2), as well as applicable DRECP CMAs, the maximum daily construction emissions with mitigation (shown in Table 3.4-9 in the EIR) would not exceed the recommended Localized Significance Thresholds (LSTs) for any pollutant for receptors that are located 200 meters or more from sources of construction air pollutants. The localized impact to ambient air quality would be less than significant, and Project construction would not be likely to locally exceed the ambient air quality standards. Daily emissions during operation would mostly be caused by mobile source activity occurring off-site and less likely than construction to contribute to substantial pollutant concentrations. (EIR pp. 3.4-15-16). Toxic Air Contaminants. Proposed construction sources of DPM would be set back from the nearest occupied residences by more than 200 meters (656 feet), and most construction emissions would occur more than 1,000 feet away from all sensitive receptors. Accordingly, there would be little potential to expose sensitive receptors to substantial pollutant concentrations of carcinogenic DPM. The impact of localized ground level concentrations and incremental health effects of toxic air contaminants would not be significant with mitigation to reduce construction dust (MM AQ-1) and reduce engine exhaust emissions (MM AQ-2) and compliance with applicable DRECP CMAs. (EIR pp. 3.4-16).

Valley Fever. Mandatory dust controls applicable to project construction activities (including SCAQMD Rule 403) and compliance with applicable DRECP CMAs, would avoid exposing construction workers and the off-site population to substantial concentrations of dust, which would ensure that the impact of potential exposure to Valley Fever would be less than significant. (EIR pp. 3.4-16 to 3.4-17).

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Visibility and Federal Class I Areas. The nearest boundary of the JTNP Class I area is located 3 miles (4.8 kilometers) from the Project boundary. Ambient air quality impacts of the Project including increased concentrations of airborne dust, including PM10 and PM2.5, and NOx emissions could impact visibility. Controlling construction emissions as required by local rules and regulations and through mitigation measures MM AQ-1 and MM AQ-2, as well as compliance with DRECP CMAs, ensures that users of the JTNP would not experience substantial concentrations of pollutants, and the impact to visibility would be less than significant. **(EIR pp. 3.4-17)**.

During operation and maintenance, site activities and the operations-related emissions from upkeep, maintenance, inspections, security, and panel washing would occur more than 200 meters (656 feet) away from the closest residence or inhabitable dwellings. Therefore, there would be no potential to expose sensitive receptors to substantial pollutant concentrations, and this impact would be less than significant. (EIR pp. 3.4-17).

Mitigation Measures:

MM AQ-1 (Fugitive Dust Control Plan) Full text under Air Quality.

MM AQ-2 (Control On-Site Off-Road Equipment Emissions) Full text under Air Quality.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. CMAs specifically applicable under Impact AIR-2 are detailed at at Appendix CC, pp., CC-22 through CC-25

C. Biological Resources

Impact: Habitat and Species (BIO-1)

Threshold: The Project would not cause substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Wildlife Service with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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Construction and operation of the Project could adversely affect special-status plant and wildlife species by removing and degrading their habitat or from direct disturbance, mortality, or injury. Adverse effects could result from such activities as crushing, mowing, grubbing, trimming, grading using mowing and rolling methods for vegetation in the solar array areas, and compaction. Altered hydrology could affect habitats by increasing stormwater runoff, increasing erosion, and degrading habitat conditions. Dust accumulation could affect special-status plants. Spread and infestation of weed species could degrade habitat and outcompete special-status plants. Vehicles and equipment could crush plants and wildlife and destroy wildlife burrows, dens, or nests. Increased noise, lighting, opportunistic predators, and human activity could disturb wildlife in and near Project areas. Project operation may result in impacts to plants and wildlife from the "heat island effect", and may impact birds and bats through collision with PV panels or electrocution from gen-tie lines.

Vegetation and habitat. The Project would permanently impact native habitats in creosote bush scrub, desert dry wash woodland, and desert pavement on the Project site. All affected habitats may support certain special-status plants or wildlife. Vegetation, including special-status plants, would be trimmed, cut, or removed. Soils would be disturbed, which may result in erosion or compaction. Direct impacts may include direct crushing, burial, or uprooting of vegetation and root damage. The potential indirect introduction of invasive

weeds could degrade plant and wildlife habitat on the site and beyond the site boundaries if the weeds spread. During operations, increased temperatures from a "heat island effect" may impact the success of re-vegetation.

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Without mitigation, the loss of vegetation and natural habitat on the Project site would significantly affect special-status species on the site or vicinity. Impacts would be minimized by implementing mitigation measures (MMs), listed below with the full text provided in Appendix L, MMRP. Compliance with applicable DRECP CMAs detailed in Appendix CC would minimize impacts of the Project on special-status species on BLM lands.

MMs BIO-1 to MM BIO-5 require use of qualified biologists for surveying and monitoring (MM BIO-1 Biological Monitoring), training of construction personnel on identifying and avoiding sensitive plant and wildlife resources (MM BIO-2 Worker Environmental Awareness Training), clear demarcation of vegetation for removal and low impact site preparation (MM BIO-3 Minimization of Vegetation and Habitat Impacts), managing non-natives in disturbance areas (MM BIO-4 Integrated Weed Management Plan), and revegetating disturbance areas with native habitat (MM BIO-5 Vegetation Resources Management Plan).

The Project has been designed to avoid desert dry wash woodland (except for minor incursions). Compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would require permanent protection of comparable off-site habitat to offset the Project's impacts to native habitat, sensitive habitats, and designated critical habitat. The compensation lands identified are much higher quality habitat than the designated critical habitat on the Project site.

The Project will also comply with all applicable DRECP CMAs as detailed in Appendix CC.

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These include LUPA-BIO-1 (habitat assessments and protocol surveys), LUPA-BIO-2 (biological monitoring), LUPA-BIO-3 (resource setbacks), LUPA-BIO-5, LUPA-BIO-7 (construction restoration), LUPA-BIO-10 (weed management), LUPA BIO-11 (nuisance animals and invasive species), LUPA-BIO-13 (siting and design), LUPA-BIO-RIPWET-1 (riparian and wetland setbacks), LUPA-BIO-SVF-6 (avoidance of microphyll woodland), LUPA-BIO-COMP-1 and LUPA-VPL-BIO-COMP-1 (compensatory mitigation).

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Collectively, these measures ensure that impacts to vegetation and habitat for specialstatus species would be less than significant with mitigation.

Special-status plants. Four special-status plants were observed on the Project site: Emory's crucifixion thorn; California ditaxis; desert unicorn-plant; and Utah milkvine. One Emory's crucifixion thorn was observed along the northern boundary of the site and would be avoided outside the development footprint. California ditaxis was observed primarily along or outside Project boundaries, and impacts would be minimal. Desert unicorn-plant is located primarily in desert dry wash woodland habitat that would be avoided outside the development footprint, and impacts would be minimal. Utah milkvine was observed in one location. Protected native desert plants and cacti were observed in the Project area.

Special-status plants would be crushed, trimmed, cut, buried, uprooted, or removed, and supporting soils would be disturbed, eroded, or compacted. Special-status plants would be indirectly impacted from introduction and spread of invasive weeds that outcompete native species. During operations, increased temperatures from a "heat island effect" may impact re-establishment of special-status plant species.

Without mitigation, the loss of special-status plants on the Project site could be significant. Impacts would be minimized by implementing mitigation measures (MMs), listed below with the full text provided in Appendix L, MMRP and applicable DRECP CMAs detailed in Appendix CC.

MMs BIO-1 to MM BIO-5 require use of qualified biologists for surveying and monitoring (MM BIO-1 Biological Monitoring), training of construction personnel on identifying and avoiding sensitive plant resources (MM BIO-2 Worker Environmental Awareness Training), clear demarcation of vegetation for removal and low impact site preparation (MM BIO-3 Minimization of Vegetation and Habitat Impacts), managing non-natives in disturbance areas (MM BIO-4 Integrated Weed Management Plan), and salvaging seed and plants from the project site (including special-status species and protected native desert species) and revegetating disturbance areas from rootstock and with native species (MM BIO-5 Vegetation Resources Management Plan).

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Compensatory mitigation, as described above for vegetation and habitat, would require permanent protection of comparable off-site habitat to offset the Project's impacts to native habitats, including desert dry wash woodland (MM BIO-14), desert pavement (MM BIO-3), and desert tortoise habitat (MM BIO-7). The compensation lands identified are much higher quality habitat than the designated critical habitat on the Project site.

The Project will also comply with all applicable DRECP CMAs as detailed in Appendix CC. These include LUPA-BIO-1 (habitat assessments and protocol surveys), LUPA-BIO-2 (biological monitoring), LUPA-BIO-5 (worker education), LUPA-BIO-7 (construction restoration), LUPA-BIO-10 (weed management), LUP-BIO-11 (nuisance animals and invasive species), LUPA-BIO-13 (siting and design), LUPA-BIO-SVF-1 (special vegetation features), LUPA-VEG-1 to -3 and LUPA-BIO-VEG-5 to -6 (vegetation managements), LUPA-BIO-3 (setbacks), LUPA-BIO-RIPWET-1 (riparian and wetland setbacks), LUPA-BIO-SVF-6 (avoidance of microphyll woodland), LUPA-BIO-COMP-1 and LUPA-VPL-BIO-COMP-1 (compensatory mitigation). Additionally, LUPA-BIO-PLANT-1 would require properly timed protocol surveys for BLM special-status plant species and marking for avoidance or salvage. Collectively, these measures ensure that impacts to special-status plants would be less than significant with mitigation.

Special-status wildlife. Impacts to special-status wildlife are discussed below and are minimized and avoided by implementation of MM BIO-6 (Wildlife Protection), which identifies numerous requirements to minimize or avoid wildlife injury and entrapment such as site and vehicle inspections; management and covering of stored project materials; ramps to ensure escape from excavations, trenches, auger holes, and water tanks; prevention of attractants for opportunistic predators such as trash or water; hazardous material management; and vehicle speed limits. Impacts to wildlife due to disturbance, degradation, and removal of habitat would be minimized and avoided with MMs BIO-1 to BIO-5, as previously discussed for vegetation and habitat. The Project will also comply with all applicable DRECP CMAs as detailed in Appendix CC. These include LUPA-BIO-1 (habitat assessments and protocol surveys), LUPA-BIO-2 (biological monitoring), LUPA-BIO-5 (worker education), LUPA-BIO-7 (construction restoration), LUPA-BIO-10 (weed management), LUPA-BIO-13 (siting and design), LUPA-BIO-3 (setbacks), LUPA-BIO-RIPWET-1 (riparian and wetland setbacks), LUPA-BIO-SVF-6 (avoidance of microphyll LUPA-VPL-BIO-COMP-1 (compensatory LUPA-BIO-COMP-1 and woodland). mitigation). Additionally the following CMAs would be implemented to minimize impacts to special-status wildlife: LUPA-BIO-4 (seasonal restrictions); LUPA-BIO-6 (subsidized predators management); LUPA-BIO-12 (noise); LUPA-BIO-14 (best management practices); LUPA-BIO-15 (construction best management practices); and LUPA-BIO-IFS-1 to -3 (protocol surveys and setback buffers).

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The following paragraphs summarize additional species-specific impacts and mitigation measures. Collectively, these measures ensure that impacts to special-status wildlife would be less than significant with mitigation.

• Couch's spadefoot toad. Couch's spadefoot toad was not observed during surveys, but eight areas were identified as potential breeding habitat where water may accumulate after rainfall. While suitable breeding habitat has not yet been detected at the Project site, impacts to Couch's spadefoot toad, if present, may include direct loss of habitat;

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mortality from entrapment, crushing, or vehicle collision; increased predation by opportunistic predators; or contamination of waterways from hazardous fuels or herbicides. Noise, lighting, or vibrations could disturb or displace individuals. MMs would minimize adverse impacts to native vegetation and habitat and offset the permanent habitat loss through off-site habitat compensation. MM BIO-6 (Wildlife Protection) would minimize mortality and injury as described above. MM BIO-14 would require best management practices to protect water resources. In addition to the DRECP CMAs previously listed, LUPA-BIO-9 requires that best management practices be implemented to prevent toxic and hazardous materials from entering streams and washes. Compensatory mitigation for impacts to jurisdictional waters that may provide habitat for Crouch's spadefoot toad would also be required pursuant to CMA LUPA-BIO-COMP-1. These measures would effectively minimize adverse impacts to Couch's spadefoot toad.

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• Native and special-status birds. Native birds are protected under the California Fish and Game Code and federal Migratory Bird Treaty Act (MBTA). The Project site and surrounding area provides suitable nesting habitat for numerous resident and migratory bird species. Bird nests including eggs and nestlings are vulnerable to construction activities that may disrupt nesting behavior or destroy nests, birds, or eggs.

Impacts to native birds may include direct loss of habitat; mortality from entrapment, crushing, or vehicle collision; and increased predation by opportunistic predators. Indirect impacts would include increased noise, dust, light, and activity, which may affect migratory or foraging behavior. After completion of construction and throughout the life of the Project, the solar facilities and other Project components may present a collision or electrocution risk to birds.

Mitigation measures MM BIO-1 through BIO-5, previously described, would minimize adverse impacts to native bird habitat and offset permanent habitat loss through off-site habitat compensation. MM BIO-6 (Wildlife Protection) would minimize Project

impacts to native birds through a series of requirements to minimize or avoid wildlife injury, such as site inspections; prevention of opportunistic predator attractants such as trash or water; prevention of entrapment; management of hazardous materials, and vehicle speed limits.

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MM BIO-8 requires a Bird and Bat Conservation Strategy (BBCS) that specifies measures to recognize, minimize, and avoid hazards such as collisions and electrocution; describe procedures for reporting and handling dead or injured wildlife; and describe post-construction monitoring and adaptive management for bird and bat mortality.

MM BIO-9 (Nesting Bird Management Plan) requires performing pre-construction nest surveys and implementing buffers and monitoring around active nests, which would protect nesting burrowing owls from disturbance due to increased noise, dust, vibration, and human presence and from direct destruction of nests, eggs, and young.

Structures that have been empirically demonstrated to result in elevated collision risk at various types of facilities (e.g., tall buildings, communication towers, wind turbines, or concentrating solar thermal towers) would not be required for the Project, which consists of low height PV arrays. For taller structures, such as the gen-tie, the Project will be designed in accordance with Avian Power Line Interaction Committee (APLIC) guidelines and best management practices to protect birds from electrocution.

MM BIO-10 (Gen-tie Lines) requires mechanisms in accordance with APLIC standards to visually warn birds such as permanent markers or bird flight diverters; avoid or minimize use of guy wires; and maintain sufficient distance between all conductors and grounded components to prevent electrocution of large birds.

In addition to the DRECP CMAs previously detailed for all special-status wildlife species, the following CMAs would be implemented to minimize impacts to native birds on BLM land in the Project site: LUPA-BIO-16 to -17 (bird and bat conservation strategy);

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LUPA-BIO-RIPWET-3 (special-status riparian bird surveys and monitoring); LUPA-BIO-COMP-2 (bird compensatory mitigation); and LUPA-BIO-IFS-11 (Bendire's Thrasher monitoring).

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Together these measures would effectively minimize adverse impacts to native birds.

• Burrowing owl. Burrowing owls, burrows, and sign have been observed at the Project site and suitable habitat is present. Potential direct project impacts to burrowing owls include mechanical crushing of individuals or burrows by vehicles and construction equipment, habitat loss, and noise and disturbance to surrounding habitat. MMs BIO-1 through BIO-6, listed above, would minimize adverse impacts to native vegetation and offset the permanent habitat loss through off-site habitat compensation.

MMs BIO-6 (Wildlife Protection), BIO-8 (Bird and Bat Conservation Strategy), MM BIO-9 (Nesting Bird Management Plan), and BIO-11 (Burrowing Owl Avoidance and Relocation) would prevent or minimize potential injury to burrowing owl by managing work site hazards, adaptively managing bird mortality, surveying and buffering bird nests, surveying and identifying occupied and active burrows, and safely excluding the owls through passive relocation. MM BIO-13 (Wildlife Protection and Relocation Plan) directs the development and implementation of a Wildlife Protection and Relocation Plan to identify and describe species-specific procedures for burrowing owl, desert tortoise, desert kit fox, and American badger.

In addition to the CMAs previously described for all special-status wildlife species, the following CMAs would be implemented on BLM land within Project site to minimize impacts to western burrowing owl: LUPA-BIO-IFS-12 to -14 (monitoring, setbacks and passive translocation).

These measures are expected to effectively avoid lethal take of burrowing owls by identifying individuals and burrows, excluding them from the project area, or if active nests

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are present, by avoiding disturbance in surrounding buffer areas.

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• Golden eagle. Golden eagles are protected under federal law as well as the MBTA and California Fish and Game Code. The Project site does not provide suitable golden eagle nesting habitat. However, the site provides suitable foraging habitat, and is within potential foraging distance of known golden eagle nesting territories. Golden eagles may be at risk of collision with gen-tie lines due to their large size. Foraging habitat loss may affect golden eagles during nesting, winter, or migratory seasons. Impacts to golden eagle foraging habitat would be offset through protection of off-site compensation lands, which would mitigate impacts to vegetation and habitat, including golden eagle foraging habitat (MM BIO-3 for desert pavement; MM BIO-7 for creosote bush scrub (suitable desert tortoise habitat); MM BIO-14 for desert dry wash woodland).

MMs BIO-6 (Wildlife Protection), BIO-8 (Bird and Bat Conservation Strategy), MM BIO-9 (Nesting Bird Management Plan), and MM BIO-10 (Gen-tie lines) would prevent or minimize potential injury to golden eagle by managing work site hazards, adaptively managing bird mortality, surveying and buffering bird nests, and designing and marking gen-tie lines to prevent electrocution.

In addition to the CMAs previously described for all special-status wildlife species, the following CMA would be implemented on BLM land within the Project site to minimize impacts to golden eagle: LUPA-BIO-IFS-25 (habitat loss restriction).

Together these measures would effectively minimize adverse impacts to golden eagle.

• Other Special-Status Raptors. Several other special-status raptors have been reported on or near the Project site or are likely to occur in the area seasonally. Impacts to raptor foraging habitat would be minimized by implementing MM BIO-1 to BIO-5, previously described for vegetation and habitat. Impacts to habitat would be offset through

protection of off-site compensation lands, which would mitigate impacts to vegetation and habitat, including golden eagle foraging habitat (MM BIO-3 for desert pavement; MM BIO-7 for creosote bush scrub (suitable desert tortoise habitat); MM BIO-14 for desert dry wash woodland).

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MMs BIO-6 (Wildlife Protection), BIO-8 (Bird and Bat Conservation Strategy), MM BIO-9 (Nesting Bird Management Plan), and MM BIO-10 (Gen-tie lines) would prevent or minimize potential injury to raptors by managing work site hazards, adaptively managing bird mortality, surveying and buffering bird nests, and designing and marking gen-tie lines to prevent electrocution.

The Project would comply with the CMAs previously described for all special-status wildlife species, which would minimize impacts to raptors.

Together these measures would effectively minimize adverse impacts to specialstatus raptors.

• Special-Status Passerine Birds. The desert vegetation and adjacent mountains provide foraging, cover, or breeding habitat for resident and migratory special-status birds. Potential impacts to these species would be the same as those described for other nesting or migratory birds. These impacts can be mitigated by implementing MM BIO-1 to BIO-5, previously described for vegetation and habitat. Impacts to habitat would be offset through protection of off-site compensation lands, which would mitigate impacts to vegetation and habitat, including bird habitat (MM BIO-3 for desert pavement; MM BIO-7 for creosote bush scrub (suitable desert tortoise habitat); MM BIO-14 for desert dry wash woodland).

MMs BIO-6 (Wildlife Protection), BIO-8 (Bird and Bat Conservation Strategy), and MM BIO-9 (Nesting Bird Management Plan) would prevent or minimize potential injury to passerine birds by managing work site hazards, adaptively managing bird mortality, and surveying and buffering bird nests.

In addition to the CMAs previously described for all special-status wildlife species, the following CMAs would be implemented on BLM land in the Project site to minimize impacts to passerine birds: LUPA-BIO-16 to -17 (bird and bat conservation study).

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Together these measures would effectively minimize adverse impacts to specialstatus passerine birds.

• Desert kit fox and American badger. Active and inactive desert kit fox burrows and dig marks, tracks, and scat were observed on the Project site, and active and inactive American badger burrows and dig marks and tracks were identified. Potential direct impacts to American badger and desert kit fox include mechanical crushing of individuals or burrows by vehicles and construction equipment, eviction from burrows, habitat loss, loss of burrows, and noise, vibration, and disturbance in surrounding habitat. Exclusion or security fencing could entrap desert kit foxes or badgers in the construction area. MM BIO-1 through MM BIO-5, noted above, would minimize adverse impacts to native vegetation. Impacts to habitat would be offset through protection of off-site compensation lands, which would mitigate impacts to vegetation and habitat, including golden eagle foraging habitat (MM BIO-3 for desert pavement; MM BIO-7 for creosote bush scrub (suitable desert tortoise habitat); MM BIO-14 for desert dry wash woodland).

MM BIO-6 (Wildlife Protection), MM BIO-12 (Desert Kit Fox and American Badger Relocation), and MM BIO-13 (Wildlife Protection and Relocation Plan) would prevent or minimize potential injury and mortality to desert kit fox and American badger. MM BIO-6 identifies practices and requirements to prevent or minimize wildlife injury and mortality from work site hazards. MM BIO-12 specifies details for pre-construction surveys, exclusion of animals from dens, passive relocation from the site, and avoidance of natal dens. MM BIO-13 directs the development and implementation of a Wildlife Protection and Relocation Plan to identify and describe species-specific procedures for burrowing owl, desert tortoise, desert kit fox, and American badger.

The Project would comply with the CMAs previously described for all special-status wildlife species, which would minimize impacts to desert kit fox and American badger.

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Together these measures would effectively minimize adverse impacts to desert kit fox and American badger.

• Burro deer. Nearby active agricultural areas provide a water source for burro deer. Additionally, desert dry wash woodland habitat may provide seasonal foraging or cover habitat for burro deer. Potential impacts of the Project could include loss of habitat and restriction of movement to water sources. Burro deer are expected to avoid project-related disturbance during construction and O&M, and no special measures are necessary to exclude them from work areas. MMs BIO-1 through BIO-5, listed above, would minimize adverse impacts to native vegetation, including burro deer habitat. Impacts to habitat would be offset through protection of off-site compensation lands, which would mitigate impacts to vegetation and habitat, including burro deer habitat. Potential impacts to burro deer movement are addressed under Impact BIO 4, below.

The Project would comply with the CMAs previously described for all special-status wildlife species, which would minimize impacts to burro deer.

Together these measures would effectively minimize adverse impacts to burro deer.

• Special-status bats. Several special-status bats could use the Project site for foraging, but only minimal suitable roosting habitat is available. Project construction could adversely impact special-status bats through the elimination of desert shrubland foraging habitat and roosting trees and disturbance from noise, vibration, lighting, and dust. Common bats and special-status bats may roost in desert dry wash woodland habitat on the site, which would be mostly avoided. After construction, bats may continue to use desert dry wash woodland habitat that is avoided by the Project.

Ongoing studies have shown that bats are susceptible to collisions with moving

structures such as wind turbines, but infrequently collide with stationary structures. Bat carcasses were rarely detected at utility-scale PV solar energy facilities that have been monitored. It is anticipated very few bat fatalities will occur during the life of the project based on the absent to very low bat fatalities discovered at regional projects.

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MM BIO-1 through MM BIO-5 would minimize adverse impacts to native vegetation. Impacts to habitat would be offset through protection of off-site compensation lands, which would mitigate impacts to vegetation and habitat, including golden eagle foraging habitat (MM BIO-3 for desert pavement; MM BIO-7 for creosote bush scrub (suitable desert tortoise habitat); MM BIO-14 for desert dry wash woodland). MM BIO-6 (Wildlife Protection) includes a condition to inspect structures prior to demolition and remove wildlife or allow wildlife to escape. MM BIO-8 (Bird and Bat Conservation Strategy) would describe a strategy for post-construction adaptive management for bird and bat mortality associated with the Project.

In addition to the CMAs previously described for all special-status wildlife species, the following CMAs would be implemented on BLM land within the Project site to minimize impacts to bats: LUPA- BIO-16 to -17 (bird and bat conservation strategy); LUPA-BIO-BAT-1 (maternity roost setbacks); and LUPA-BIO-COMP-2 (compensatory mitigation).

Together these measures would effectively minimize adverse impacts to specialstatus bats. (EIR pp. 3.5-23 to 3.5-55).

Mitigation Measures:

MM BIO-1 (Biological Monitoring) Monitoring to ensure conformance with conditions of approval, including effective protection and avoidance of biological resources, shall be imple-men-ted by the Applicant as follows:

Biological Monitoring Team. During construction and decommissioning, the Applicant shall employ a biological monitoring team to oversee Project activities. Any activity that may impact vegetation, wildlife, and sensitive resources shall be monitored to ensure compliance

with all mitigation measures for biological resources.

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The biological monitoring team shall consist of:

• Lead Biologist: The Applicant shall assign a Lead Biologist, approved by Riverside County, BLM, CDFW, and USFWS as the primary point of contact for the BLM and resource agencies regarding biological resources mitigation and compliance. The Lead Biologist shall have an approved MOU with Riverside County prior to commencing work on the Project.

 Biological Monitor: Biological monitors shall be overseen by the Lead Biologist and shall perform any required surveys, ground disturbance and construction monitoring, wild-life monitoring, inspections, marking sensitive resource buffers, and revegetation monitoring during Project activities. Biological monitors shall include trained desert tortoise monitors (MM BIO-7) and nest monitors (MM BIO-8).

 Authorized Desert Tortoise Biologist: For desert tortoise protection measures (MM BIO-7), the Applicant shall nominate a qualified individual to serve as Authorized Desert Tortoise Biologist, for approval by the USFWS and CDFW.

The Applicant shall provide the resumes of the proposed Biological Monitoring Team to the BLM and Riverside County for approval prior to onset of ground-disturbing activities. The Biological Monitoring Team shall have demonstrated expertise with the biological resources within the Project region. The Biological Monitoring Team shall have authority to halt any activities in any area if it is determined that the activity, if continued, would cause an unauthorized adverse impact to biological resources.

The duties of the Biological Monitoring Team shall vary during the construction, O&M, and decommissioning phases, based on the biological monitoring tasks needed for com-pli-ance during each phase. During O&M, an Applicant staff member serving as a com-pliance manager may perform the duties of the Lead Biologist to ensure compliance with biological mitigation measures, such as performing inspections for entrapped wild-life and fence condition, reporting dead or injured wildlife, avoiding nesting birds, and inspections of panel

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washing. The Applicant's compliance manager, if serving as Lead Biologist during O&M, shall have an approved MOU with Riverside County prior to commencing Lead Biologist duties on the Project. In general, the duties of the Lead Biologist shall include, but shall not be limited to: Regular, direct communication with representatives of the BLM, and other agencies, as appropriate. The Lead Biologist, or during O&M, the Applicant's compliance manager, shall immediately notify the BLM and applicable resource agencies in writing of dead or injured special-status species, or of any non-compliance with biological mitigation measures or permit conditions. Train and supervise Biological Monitors, including desert tortoise monitors, nest monitors, and construction monitors. Conduct or oversee Worker Environmental Awareness Program (WEAP) training (MM BIO-2). During construction and decommissioning, clearly mark and inspect sensitive biological resource areas in compliance with regulatory terms and conditions. Oversee wildlife clearance surveys, ground disturbance and grading, and biological monitoring. Ensure that all biological monitoring is completed properly and on schedule. Conduct or oversee bi-weekly compliance inspections during ground-disturbing activi-ties and communicate any remedial actions needed (i.e., trash, fence, weed mainte-nance; wildlife mortality) to maintain compliance with mitigation measures. Reporting. The Lead Biologist, or during O&M, the Applicant's compliance manager, shall report regularly to the BLM and Riverside County to document the status of compliance with biological mitigation measures. During construction and decommissioning: Provide weekly verbal or written updates to the BLM with any information pertinent to the BLM and Riverside County, to resource agencies, or to state or federal permits for biological resources. Prepare and submit monthly and annual compliance reports to include a summary of

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Project activities that occurred, biological resources surveys and monitoring that were performed, any sensitive or noteworthy species observed, weed infestations removed, and non-compliance issues and remedial actions that were implemented.

During O&M:

Conduct quarterly compliance inspections and reporting, to be submitted to the BLM and Riverside County, to document the condition of exclusion fencing, wildlife mor-tality, and any biological resource issues of note.

MM BIO-2 (Worker Environmental Awareness Training) The Lead Biologist shall prepare and imple-ment a Worker Environmental Awareness Program (WEAP). The Applicant shall be respon-sible for ensuring that all workers at the site receive WEAP training prior to begin-ning work on the Project and receive annual refresher trainings throughout construction, operations, and decommissioning. The WEAP shall be available in English and Spanish. The Applicant shall submit the WEAP to the lead agency and resource agencies for approval prior to implementation. The WEAP will:

- Be developed by or in consultation with the Lead Biologist and consist of an on-site or training center presentation with supporting written material and electronic media, including photographs of protected species, available to all participants.
- Provide an explanation of the function of flagging that designates authorized work areas; specify the prohibition of soil disturbance or vehicle travel outside designated areas.
- Discuss general safety protocols such as vehicle speed limits, hazardous substance spill prevention and containment measures, and fire prevention and protection measures.
- Review mitigation and biological permit requirements.
- Explain the sensitivity of the vegetation and habitat within and adjacent to work areas, and proper identification of these resources.
- Discuss the federal and state Endangered Species Acts, Bald and Golden Eagle Protec-tion Act, and the Migratory Bird Treaty Act and the consequences of noncompliance with these acts.
- Discuss the locations and types of sensitive biological resources on the Project site and

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adjacent areas and explain the reasons for protecting these resources.

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- Inform participants that no snakes, other reptiles, birds, bats, or any other wildlife shall be harmed or harassed.
- Place special emphasis on species that may occur on the Project site and/or gen-tie lines, including special-status plants, Crotch bumble bee, desert tortoise, burrowing owl, golden eagle, nesting birds, desert kit fox, American badger, and burro deer.
- Specify guidelines for avoiding rattlesnakes and reporting rattlesnake observations to ensure worker safety and avoid killing or injuring rattlesnakes. Rattlesnakes should be safely removed from the work area using appropriate snake handling equipment, including a secure storage container for transport, or by calling local animal control.
- Describe workers' responsibilities for avoiding the introduction of invasive weeds onto the Project site and surrounding areas, describe the Integrated Weed Management Plan.
- Provide contact information for the Lead Biologist and instructions for notification of any vehicle-wildlife collisions or dead or injured wildlife species encountered during Project-related activities.
- Include a training acknowledgment form to be signed by each worker indicating that they received training and shall abide by the guidelines.
- Desert Tortoise Education Requirements: Prior to the start of construction activities, a desert tortoise education program shall be presented by the Lead Biologist to all personnel who will be present on Project work areas. Following the start of construction, any new employee shall be required to complete the tortoise education program prior to working on site. At a minimum, the tortoise education program shall cover the following topics:
 - A detailed description of the desert tortoise, including color photographs;
 - The distribution and general behavior of the desert tortoise;
 - Sensitivity of the species to human activities;

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• The protection the desert tortoise receives under the state and federal Endan-gered Species Acts, including prohibitions and penalties incurred for violation;

The protective measures being implemented to conserve the desert tortoise . during construction activities;

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Procedures and a point of contact if a desert tortoise is observed on site.

MM BIO-3 (Minimization of Vegetation and Habitat Impacts) Prior to grounddisturbing activities during construction, O&M, or decommissioning, authorized work areas shall be clearly delineated and sensitive resources that require avoidance would be flagged by the Lead Biologist. These areas shall include, but not be limited to, staging areas, access roads, and sites for temporary placement of construction materials and spoils. Delineation may be implemented with common orange vinyl "fencing" or staking to clearly identify the limits of work and will be verified by the Lead Biologist. No paint or permanent discoloring agents shall be applied to rocks or vegetation (to indicate surveyor construction activity limits or for any other purpose). Fencing/staking shall remain in place for the duration of construction. Spoils shall be stockpiled in disturbed areas. All disturbances, vehicles, and equipment shall be confined to the fenced/flagged areas.

Construction activities shall minimize soil and vegetation disturbance and onsite construc-tion/vehicle trips to minimize impacts to soil and root systems. Erosion control shall be implemented as described in the Drainage Erosion and Sedimentation Control Plan (DESCP) (MM HWQ-1), which requires identification of erosion treatments for exposed soil, such as chemical-based dust pallatives, soil bonding, and weighting agents suitable for use around vegetation. Additional BMPs, as committed to by the Applicant and incor-porated into the Project Description, are described in Section 2.7 and include designation of primary travel routes, limiting grading to specific areas, building racking material in laydown areas to minimize use of roads, using equipment with smaller rubberwheeled vehicles, maintaining hydrologic flow patterns, and preserving propagule islands to support vegetation recovery.

Upon completion of construction activities in any given area, all unused materials, equip-ment, staking and flagging, and refuse shall be removed and properly disposed of, including wrapping material, cables, cords, wire, boxes, rope, broken equipment parts,

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twine, strapping, buckets, and metal or plastic containers. Any unused or leftover hazard-ous products shall be properly disposed of off-site in accordance with applicable legal requirements.

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Hazardous materials shall be handled in accordance with applicable legal requirements, and spills or leaks shall be promptly corrected and cleaned up according to applicable legal requirements. Vehicles shall be properly maintained to prevent spills or leaks. Hazardous materials, including motor oil, fuel, antifreeze, hydraulic fluid, grease, shall not be allowed to enter drainage channels.

Low-Impact Site Preparation and O&M. Native vegetation shall be allowed to recover from rootstocks and seed bank wherever facilities do not require- permanent vegetation removal (e.g., access roads, foundations, paved areas, or fire clearance requirements) within the perimeter fenceline of the solar facilities and under solar arrays. Project BMPs (Section 2.7.2) to minimize impacts during site preparation require that primary travel routes be desig-nated through panel arrays to minimize disturbance between rows; that grading be limited to specific areas, including roads, substation, O&M facilities, laydown areas, some equipment pads, and in discrete areas within the arrays; and that small rubber-wheeled equipment be used.

During O&M, vegetation height and density shall be managed as needed for fire safety and operation of the solar panels. Onsite vegetation that re-establishes under the solar panels will be periodically trimmed to a height no more than 12 inches, to avoid inter-ference with the panels. Vegetation may require trimming approximately once every three years, as needed. Revegetation of native habitat and protection of erosive soils shall be implemented in temporary impact areas, as described in MM BIO-4 and MM BIO-5.

Compensation for impacts to Desert Pavement. Compensatory mitigation for impacts to desert pavement shall be identified prior to disturbance of the features at a minimum 1:1 ratio, in coordination with BLM and CDFW.

MM BIO-4 (Integrated Weed Management Plan) The Applicant shall prepare and implement an Integrated Weed Management Plan (IWMP) to minimize or prevent invasive

weeds from infesting the site or spreading into surrounding habitat.

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The IWMP must comply with existing relevant BLM plans and permits including the Vegetation Treatments Using Herbicides (BLM, 2007) and Vegetation Treatment Using Aminopyralid, Fluroxypyr, and Rimsulfuron (BLM, 2016b), and must be approved by BLM and Riverside County (or its designated representative). Use of any pesticides would conform with licensing and application requirements from the California Department of Pesticide Regulation.

Prior to herbicide use on BLM-administered lands, the BLM requires that a Pesticide Use Proposal (PUP) (BLM, 2019) be submitted to ensure that Projects follow herbicide use policies. If herbicides or pesticides will be used on BLM lands, the Applicant shall submit a Pesticide Use Proposal (PUP) form, to be approved by the BLM (also see Section 3.10.5 on hazardous materials). The PUP details which herbicides, pesticides, and associated adjuvants will be used for treatment, location of applications, responsible parties, time-line for treatment, application methods, application rates and maximum annual amounts, target species, and precautions for humans, sensitive resources, and non-target vegeta-tion. Only a State of California and federally certified contractor will be permitted to perform herbicide applications. Only herbicides and adjuvants approved by the State of California and BLM for use on public lands will be used within or adjacent to the federal land segments of the Project.

The Applicant shall submit the BLM approved PUP to Riverside County and implement the requirements of the PUP on private lands.-

The IWMP shall require that cover and density of non-native plants within temporarily disturbed areas will be no more than 25% of total cover, or no more than comparable adjacent undisturbed lands. Total cover on the Project site shall be calculated during the annual quantitative monitoring as required in the Vegetation Resources Management Plan (MM BIO-5), which shall complement the IWMP. Quantitative monitoring shall be performed using California Native Plant Society (CNPS) Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022). Qualitative and quantitative vegetation monitoring will

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continue for a period of no less than three (3) years or until the defined success criteria are achieved (up to 5 years).

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PLAN REQUIREMENTS

- Consistent with DRECP CMA LUPA-BIO-10 (Standard Practices for Weed Management), the Plan shall include:
- Plan objectives, including weed prevention, identification, and control via eradication, suppression, and containment;
- A list and discussion of weed species occurring or potentially occurring in the Project area, including Cal-IPC threat rankings;
- Role and responsibilities of a Weed Management Biologist, who will track, manage, and coordinate weed management activities;
- A discussion of methods to prevent introduction or spread of weeds, including worker training, vehicle cleaning and inspections, and use of weed-free seed, erosion control materials, and other construction material (gravel, sand, fencing);
- Requirements for annual monitoring of the Project site and 100-foot buffer in the early spring and late summer/early fall during construction, O&M, and decommissioning, and for 5 years after decommissioning;
- A description of monitoring methods to identify and map infestations;
- A description of manual and mechanical treatments that may be used to suppress, contain, or eradicate invasive weeds, such as use of hand or power tools, hand pulling, and soil solarization;
- A description of chemical treatments (herbicide) that may be used, including permitting and regulatory requirements for use, types of herbicides to be used such as pre-emergent, post-emergent, selective, and non-selective and the weeds they affect, application methods and rates, handling and cleanup procedures, and best practices to minimize impacts of herbicide use on wildlife and native vegetation, such as suspending treatments when winds are high or if precipitation is imminent, mixing herbicides over a drip pan at least 200 feet from open or flowing water, inspecting containers for leaks, and

maintaining spill kits in vehicles and storage areas;

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- A requirement for any herbicides used to meet the requirements of the BLM Vegeta-tion Treatment guidelines (BLM, 2007; BLM, 2016b) and be implemented in accordance with the PUP (BLM, 2019);
- A description of reporting, to require management and monitoring reports during con-struction, O&M and decommissioning, and for 5 years after decommissioning;
- Annual reports shall include the location, species, extent, and density of weeds; a description of management efforts, dates, locations, types of treatment, and results; and a summary of preventative measures such as vehicle wash logs and facilities and success of measures.

MM BIO-5 (Vegetation Resources Management Plan) The Applicant shall prepare and implement a Vegetation Resources Management Plan (VRMP), to be reviewed and approved by USFWS, CDFW, BLM, and Riverside County (or its designated representative). The VRMP shall detail the methods to revegetate temporarily impacted sites and salvage special-status plants from the Project footprint; and outline long-term vegetation management within the solar facility during its operations. The Lead Biologist shall oversee imple-mentation of the VRMP to meet success criteria and prevent further degradation of areas temporarily disturbed by Project activities.

The Plan shall require that total native vegetation cover will be no less than 80% of total vegetation cover on nearby undisturbed lands of comparable quality. Project sites previ-ously disturbed by anthropogenic activities will be compared to nearby, similarly predisturbed sites.

As described below, total cover on the Project site shall be calculated during the annual quantitative monitoring as required in the VRMP, using California Native Plant Society (CNPS) Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022).

Transplantation of cacti and ocotillo shall be considered successful with 75% survival after 3 years. If unsuccessful, remediation will be implemented to plant additional cacti at a 2:1 ratio.

PLAN REQUIREMENTS

Consistent with DRECP CMAs LUPA-BIO-7 (Restoration of Areas Disturbed by Construction Activities but Not Converted by Long-Term Disturbance), LUPA-BIO-VEG-1 (vegetation management for cactus, yucca, and other succulents under BLM policy), and LUPA-BIO-VEG-5 (adherence to BLM regulations and policies regarding salvage and transplants of cactus, yucca, other succulents, and BLM sensitive plants), the Plan shall include:

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• Revegetation of temporarily impacted sites. The Plan shall specify methods to prevent or minimize further site degradation; stabilize soils; maximize the likelihood of vegetation recovery over time (for areas supporting native vegetation); and minimize soil erosion, dust generation, and weed invasions. The nature of revegetation will differ according to each site, its pre-disturbance condition, and the nature of the construction disturbance (e.g., drive and crush, vs. blading). Revegetation and monitoring will be performed in accordance with CNPS Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022). Additional restoration guidance is provided in Abella and Berry 2016, and Abella et al. 2023, which describe techniques for restoring Mojave and western Sonoran habitats and desert tortoise habitat. New techniques, as available at the time of revegetation, will be integrated into vegetation management and adaptive management. The Plan shall include:

• soil preparation measures, including locations of recontouring, decompacting, imprinting, or other treatments, as prescribed by the Lead Restoration Ecologist and consistent with CNPS Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022);

details for topsoil storage, as applicable;

• plant material collection and acquisition guidelines, including guidelines and methods for salvaging, storing, and handling seed and plants (including desert native species protected by the CDNPA, special-status plants, and Crotch bumble bee) from the Project site,

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• Guidelines for obtaining replacement plants from outside the Project area (seed and plant palettes and materials shall be limited to locally occurring native species from local sources);

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• a plan drawing or schematic depicting the temporary disturbance areas (drawing of "typical" gen-tie structure sites will be appropriate);

• time of year that the planting or seeding will occur and the methodology of the planting;

• maintenance details, including vegetation treatments; a description of the irriga-tion, if used; erosion control measures; and non-native weed management per the IWMP;

• quantitative success criteria for regrowth of vegetation, requiring at least 80% native cover and no more than 20% non-native cover;

• a monitoring program to measure project compliance with the success criteria, including annual quantitative monitoring in accordance with CNPS Combined Vegetation Rapid Assessment and Relevé Protocol (CNPS, 2022);

• contingency measures for failed revegetation efforts not meeting success criteria, which may include, but is not limited to, reseeding, re-planting, erosion repairs, modifications to irrigation, and repair or remediation of sites;

 annual monitoring reports to be submitted to BLM and Riverside County (or its designated representative), providing a summary of the restoration and adaptive management activities for the previous year.

• Cactus Salvage. The Applicant shall include salvaged or nursery stock yuccas (all spe-cies), and cacti (excluding cholla species, genus Cylindropuntia) in revegetation plans. The Plan shall include:

• methods of salvage, including heavy equipment or hand tools, depending on plant size. For each plant, the microsite description will be recorded and the north-facing orientation will be identified and tagged.

• to the extent feasible, plants shall be salvaged during the fall or winter to

mini-mize transplantation stress. If cacti must be salvaged during spring or summer, they shall be held over in a shade structure and protected from wind and heat until fall for transplantation. If cacti must be installed during spring or summer, shade struc-tures or "vertical mulch" (branches cleared from the work sites) will be provided as shelter from sun and wind.

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• guidelines for removing plants, such that plants are dug to avoid root damage. Roots shall be treated, as necessary, and plants shall be transported to avoid root damage.

• guidelines for storing plants, such that cacti and ocotillo shall be stored only when unavoidable. Plants shall be kept shaded and roots kept moist;

 specific replanting locations shall be identified within Project lands, such as reveg-e-tation areas on temporarily disturbed work sites, unless directed otherwise by BLM (for BLM land) or the County (for private land);

• methods for re-planting, ensuring that each salvaged plant shall be replanted in a microsite that resembles its salvage site and in the same north-facing orientation as the salvage site. Salvaged plants shall be covered deeply enough with soil to prevent root exposure and watered immediately after planting and at regular intervals thereafter based on needs of each species.

• quantitative success criteria for survival, requiring at least 75% survival after 3 years. If this criterion is not met, remediation shall be implemented to plant addi-tional cacti at a 2:1 ratio or increase native vegetation cover and diversity at Project site.

• a monitoring program to measure Project compliance with the success criteria, including quarterly quantitative monitoring of survival status and identification of remedial actions needed, such as water, shade, or protection from wind, erosion, or wildlife. Results of monitoring shall be included in the annual monitoring report, as described above.

• seeds from special-status plants, if found, would be salvaged for revegetation. CRPR 1 or 2 species that are found shall be experimentally salvaged. No quantita-tive success criteria are assigned for experimental salvage; however, monitoring data shall be provided to the CDFW, Riverside County, and BLM to inform future mitigation for those species.

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• Operations Phase On-Site Vegetation Management. The Plan shall include mowing methods and scheduling for on-site vegetation management during O&M. The Plan shall describe vegetation treatments to be implemented to minimize interference with the solar panels, fire hazard, soil disturbance, and disturbance of any bird nests. Vegetation shall be inspected annually to identify hazardous vegetation or barren areas prone to erosion that require repair. All mowed or cut plant material that contains invasive weeds will be transported to a licensed solid waste or composting facility. Mowed or cut native plant material may be used on site as mulch. Weed control during O&M will be conducted as described in the IWMP (MM BIO-4).--

MM BIO-6 (Wildlife Protection) The Applicant shall undertake the following measures during con-struc-tion and O&M to avoid or minimize impacts to wildlife. Implementation of all mea-sures shall be subject to review and approval by BLM and Riverside County (or its designated representative).

Wildlife avoidance. Project activities shall minimize interference with wildlife (including ground-dwelling species, birds, bats) by allowing animals to escape from a work site prior to disturbance; conducting pre-construction surveys and exclusion measures for certain species as specified in other measures; checking existing structures (homes, trailers, etc.) for animals such as bats, barn owls, skunks, or snakes that may be present, and safely excluding them prior to removing the structures.

Minimize traffic impacts. The Applicant shall specify and enforce maximum vehicle speed limits as specified in the Traffic Control Plan, to minimize risk of wildlife collisions and fugitive dust.

Minimize lighting impacts. Night lighting, when in use, shall be designed, installed, and maintained to prevent side casting of light towards surrounding fish or wildlife habitat. Avoid use of toxic substances. Soil bonding and weighting agents used for dust suppres-sion

on unpaved surfaces shall be non-toxic to wildlife and plants.

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Minimize noise and vibration impacts. The Applicant shall conform to noise require-ments specified in the noise analysis of this EIR to minimize noise to off-site habitat.

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Water. Potable and non-potable water sources such as tanks, ponds, and pipes shall be covered or otherwise secured to prevent animals (including birds) from entering. Preven-tion methods may include storing water within closed tanks or covering open tanks with 2centimeter netting. Dust abatement shall use the minimum amount of water on dirt roads and construction areas to meet safety and air quality standards. Water sources (e.g., hydrants, tanks, etc.) shall be checked periodically by biological monitors to ensure they do not create puddles.

Trash. All trash and food-related waste shall be contained in vehicles or covered trash containers inaccessible to ravens, coyotes, or other wildlife and removed from the site regularly.

Workers. Workers shall not feed wildlife or bring pets to the Project site. Except for law enforcement personnel, no workers or visitors to the site shall bring firearms or weapons. Wildlife exclusion. The Applicant may install temporary or permanent exclusion fencing around equipment, work areas, or Project facilities to prevent wild-life exposure to hazards such as toxic materials or vehicle strikes. If fencing is not used, openings in stored equipment that would allow for entry of wildlife shall be secured with tape or other covering to prevent entrapment. The biological monitor shall perform inspections of equipment prior to use to ensure that no birds have nested on stored equipment and that no wildlife has become entrapped. The biological monitor will inspect exclusion fence (if installed) weekly.

Wildlife entrapment. Project-related excavations, trenches, auger holes, and water tanks shall be secured or covered to prevent wildlife entry, entrapment, and drowning. Holes and trenches shall be backfilled, securely covered, or fenced. Open water tanks shall be covered or shall have other means of exit provided to prevent wildlife from drowning. Excavations that cannot be fully secured shall incorporate wildlife ramp or other means to allow trapped animals to escape. At the end of each workday, a biological monitor shall ensure that excavations and water tanks have been secured or provided with appropriate means for

wildlife escape.

All pipes or other construction materials or supplies shall be covered or capped in storage or laydown areas. Netting shall be installed over porta-potty vents. No pipes or tubing shall be left open either temporarily or permanently, except during use or installation. Any construction pipe, culvert, or other hollow materials shall be inspected for wildlife before itis moved, buried, or capped.

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Dead or injured wildlife shall be reported immediately to USFWS (for federally listed species and migratory birds) and CDFW (for all wildlife) and/or the local animal control agency, as appropriate, by the Lead Biologist (or the Applicant's compliance manager during O&M). Procedures for handling of dead or injured wildlife shall be outlined in a Wildlife Protection Plan, in coordination with CDFW. A Special Purpose Utility Permit (SPUT) would be acquired from the USFWS prior to collection of migratory bird carcasses. A biological monitor shall safely move the carcass out of the road or work area if needed and dispose of the animal as directed by the agency. If an animal is entrapped, a biological monitor shall free the animal if feasible, work with construction crews to free it in com-pliance with safety requirements, or work with animal control, USFWS, or CDFW to resolve the situation.

Pest control. No anticoagulant rodenticides, such as Warfarin and related compounds (indandiones and hydroxycoumarins), may be used within the Project site, on off-site Project facilities and activities, or in support of any other Project activities.

Measures for Crotch bumble bee

- All on-site personnel shall be required to attend the Worker Environmental Awareness Training Program, as detailed in MM BIO-2, that includes education program on identification and avoidance of Crotch bumble bee and nests.
- If a live individual is detected during pre-construction surveys, or incidentally, the Appli-cant shall take adaptive management actions in coordination with CDFW, considering CDFW guidance and best management practices at the time of the occurrence.

• Pre-construction surveys would include inspection for Crotch bumble bee nests. If any are located, CDFW would be notified and a no-disturbance buffer of at least 50 feet would be demarcated as determined by the Lead Biologist, in coordination with CDFW.

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MM BIO-7 (Desert Tortoise Protection) No desert tortoise may be handled or relocated without authorization from USFWS and CDFW. The Applicant shall obtain incidental take author-iza--tion from both agencies to address any potential take of desert tortoise, including auth-orization to handle or translocate desert tortoise. In addition to implementing the actions to be taken during construction, the Applicant shall prepare and implement a Desert Tortoise Protection Plan and a Raven Management Plan, with contents as defined herein.

REQUIRED ACTIONS TO PROTECT TORTOISE DURING CONSTRUCTION

The following shall be implemented:

• Inspect for tortoises under vehicles. The ground beneath vehicles parked outside of desert tortoise exclusion fencing will be inspected immediately prior to the vehicle being moved. If a tortoise is found beneath a vehicle, the vehicle will not be moved until the desert tortoise leaves of its own accord.

• Protect tortoises on roads. The Applicant shall specify and enforce maximum vehicle speed limits as specified in the Traffic Control Plan, to minimize risk of vehicle strikes. If a tortoise is observed on or near the road accessing a work area, vehicles will stop to allow the tortoise to move off the road on its own.

• Tortoise Observations. Any time a tortoise is observed within or near a work site, Pro-ject work activities will proceed only at the site and within a suitable buffer area after the tortoise has either moved away of its own accord, or if it has been trans-located off the site under authorization by the USFWS and CDFW. If a tortoise is observed outside of exclusion fencing, construction will stop, and the tortoise shall be allowed to move out of the area on its own. If a tortoise or tortoise burrow is observed within the exclu-sion fencing, construction in the vicinity will stop, pending translocation of the tortoise or other action as authorized by USFWS and CDFW.

• Reporting of dead or injured specimens. Upon locating a dead or injured

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tortoise, the Applicant or its agent will immediately notify the Palm Springs Fish and Wildlife Office by email or telephone. Written notification must be made within five days of the finding, both to the appropriate USFWS field office and to the USFWS's Division of Law Enforcement. The information provided must include the date and time of the finding or incident (if known), location of the carcass or injured animal, a photograph, cause of death, if known, and other pertinent information.

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• Tortoise compensatory mitigation. Compensatory mitigation for desert tortoise shall include suitable habitat at a minimum of 1:1 ratio for impacts to desert tortoise suitable habitat and a ratio of 5:1 for impacts to desert tortoise critical habitat, in coordination with USFWS, CDFW, and in compliance with any ITPs.

PREPARE DESERT TORTOISE PROTECTION AND RELOCATION PLAN

To ensure safe handling and translocation in accordance with applicable wildlife agency guidance, desert tortoises shall be handled or translocated according to a Desert Tor-toise Protection and Relocation Plan, to be reviewed and approved by USFWS, CDFW, BLM, and Riverside County.

The Desert Tortoise Protection and Relocation Plan shall be developed in accordance with and be consistent with the Desert Tortoise (Mojave Population) Field Manual (USFWS, 2009); Revised Recovery Plan for the Mojave Population of the Desert Tortoise (USFWS, 2011a); Translocation of Mojave Desert Tortoises from Project Sites: Plan Development Guidance (USFWS, 2020a), and Health Assessment Procedures for the Mojave Desert Tortoise (USFWS, 2019b).

Relocated and translocated tortoises will be transmittered and monitored, as described below. All relocated or translocated desert tortoises will be monitored once within 24 hours of release; twice weekly for the first two weeks after release; weekly during the more-active season; biweekly during the less-active season; and for a duration agreed upon by Riverside County, BLM, USFWS, and CDFW from date of release.

PLAN REQUIREMENTS

Consistent with DRECP CMAs LUPA-BIO-COMP-1: (Compensation); LUPA-BIO-IFS-1:

(Individual Focus Species [IFS]: Desert Tortoise [activities within desert tortoise linkages]); LUPA-BIO-IFS-2: (new roads in Tortoise Conservation Areas [TCAs]), LUPA-BIO-IFS-3: (culvert sizing for desert tortoise), LUPA-BIO-IFS-4: (desert tortoise exclusion fencing), LUPA-BIO-IFS-5: (desert tortoise monitoring for initial clearing and grading), LUPA-BIO-IFS-6: (desert tortoise monitoring during geotechnical boring), LUPA-BIO-IFS-7: (desert tortoise monitoring during geotechnical testing), LUPA-BIO-IFS-8: (inspections for desert tortoise under vehicles), LUPA-BIO-IFS-9: (speed limits in desert tortoise habitat), LUPA-VPL-BIO-IFS-1: (site activities in previously disturbed areas in desert tortoise linkages and TCAs), DFA-BIO-IFS-1: Individual Focus Species (IFS) (protocol surveys in desert tortoise habitat), DFA-BIO-IFS-2 (setback requirements), DFA-BIO-IFS-3: Desert Tortoise (desert tortoise translocation), the Desert Tortoise Protection and Relocation Plan shall include: Authorized personnel titles and roles. The Applicant shall designate a USFWS Authorized Biologist to implement the desert tortoise protection measures. The Authorized Biologist may (or may not) also serve as the Project's Lead Biologist.

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The Applicant shall employ one or more desert tortoise monitors who are qualified to conduct desert tortoise clearance surveys and who will be on site during all construction. The desert tortoise monitors' qualifications will be subject to review and approval by Riverside County and the BLM. Qualifications may include work as a compliance monitor on a project in desert tortoise habitat, work on desert tortoise trend plot or transect surveys, conducting surveys for desert tortoise, or other research or field work on desert tortoise. Attendance at a training course endorsed by the agencies (e.g., Desert Tortoise Council tortoise training workshop) is a supporting qualification.

The Authorized Biologist shall direct one or more desert tortoise monitors to conduct preconstruction clearance surveys for each work area, watch for tortoises wandering into the construction areas, check under vehicles, and examine excavations and other potential pitfalls for entrapped animals.

The Authorized Biologist shall be responsible for overseeing compliance with desert tor-toise protective measures and for coordination with resource agencies. The Author-ized

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Biologist will have the authority to halt any Project activities that may risk take of a desert tortoise or that may be inconsistent with adopted mitigation measures or permit con-ditions. Neither the Authorized Biologist nor any other Project employee or contractor may bar or limit any communications between Riverside County, BLM, CDFW, or USFWS staff and any Project biologist, biological monitor, or contracted biologist. Upon notifica-tion by the desert tortoise monitor or another biological monitor of any noncompliance the Authorized Biologist shall ensure that appropriate corrective action is taken.

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The following incidents will require immediate cessation of any Project activities that could harm a desert tortoise: (1) location of a desert tortoise within a work area; (2) immi-nent threat of injury or death to a desert tortoise; (3) unauthorized handling of a desert tortoise, regardless of intent; (4) operation of construction equipment or vehicles outside a Project area cleared of desert tortoise, except on designated roads; and (5) con-ducting any construction activity without a biological monitor where one is required.

Worker training. Prior to the onset of construction activities, a desert tortoise education program will be presented by the Authorized Biologist to all personnel who will be present on Project work areas. Following the onset of construction, any new employee will be required to formally complete the tortoise education program prior to working on site. The following specifications will be incorporated into the WEAP train-ing, identified in Mitigation Measure BIO-2. At a minimum, the tortoise education program will cover the following topics:

- A detailed description of the desert tortoise, including color photographs;
- The distribution and general behavior of the desert tortoise;
- Sensitivity of the species to human activities;

• The protection the desert tortoise receives under the state and federal Endan-gered Species Acts, including prohibitions and penalties incurred for violation;

• The protective measures being implemented to conserve the desert tortoise during construction activities; and

• Procedures and a point of contact if a desert tortoise is observed on site. Plan requirements for pre-construction and clearance surveys and use of exclusion fen-cing. Prior to the construction of solar facilities, temporary or permanent desert tortoise exclusion fencing will be installed around the entirety of the approved solar field and storage facility construction areas, as well as parking and laydown areas. Fenced areas would be surveyed and monitored to ensure desert tortoise are avoided.

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Construction phase tortoise exclusion fencing. Exclusion fencing will adhere to USFWS design guidelines in the Desert Tortoise Field Manual (USFWS, 2009), where applicable. The exact location of different fencing types shall be determined in coordination with the USFWS. Permanent fencing shall be constructed with durable materials (i.e., 16 gauge or heavier) suitable to resist desert environments, alkaline and acidic soils, wind, and ero-sion. Temporary fencing would be built with the same materials, however it would not be trenched or buried but bent inwards flush with the ground surface. Tortoise exclusion fencing shall include a "cattle guard" or desert tortoise exclusion gate at each entry point. This gate shall remain closed at all times, except when vehicles are entering or leaving. If it is deemed necessary to leave the gate open for extended periods of time (e.g., during high traffic periods), the gate may be left open as long as a biological monitor is present to monitor for tortoise activity in the vicinity.

Preconstruction surveys. No more than 10 days prior to the initiation of fence construction, a pre-activity tortoise survey shall be conducted along the fence line installation area using techniques that provide 100% visual coverage of the disturbance area. Transects will be spaced 15 feet (5 meters) apart, and within an additional buffer area of 100 feet (30 meters) transects would be spaced 10 meters apart.

Fence monitoring. A biological monitor shall be present during all fence installation activi-ties to inspect the work area and under vehicles for desert tortoise prior to ground disturbance or vehicle access to ensure that no tortoises have moved into the work area. If a desert tortoise moves into the work area, activities will halt until it moves out of the work site on its own accord or is moved from harm's way by an Authorized Biologist.

Fence inspections. Exclusion fencing will be inspected daily for the first two weeks following installation, to monitor for desert tortoise exhibiting fence-walking behavior. If none are observed, exclusion fencing will be inspected weekly during desert tortoise active seasons (April 1 to May 31 and September 1 to October 31), at least monthly during non-active seasons (June to September, November to March), and following all rain events, and corrective action taken if needed to maintain it.

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Unfenced work areas. As an alternative to exclusion fencing, any work conducted in an area that is not fenced to exclude desert tortoises (e.g., gen-tie tower sites) must be monitored by a biological monitor who will stop work if a tortoise enters the work area. Work activities will proceed only at the site and within a suitable buffer area after the tortoise has either moved away of its own accord, or if it has been translocated off the site under authorization by the USFWS and CDFW. Work sites with potential hazards to desert tortoise (e.g., auger holes, steep-sided depressions) that are outside of the desert tortoise exclusion fencing will be fenced by installing exclusionary fencing, covered, or will not be left unfilled overnight. Clearance surveys. An Authorized Biologist shall direct a clearance survey before the tortoise fence is enclosed to ensure no tortoises are in the work area. After exclusion fencing is fully installed, a desert tortoise pre-construction clearance survey shall be con-ducted within each of the enclosed, fenced areas. Per the USFWS Field Manual (2009), clearance surveys must consist of at least 2 consecutive surveys of the site. Clearance will be considered complete after two successive 100 percent coverage surveys have been conducted without finding any desert tortoises. If active desert tortoise sign is observed during the second survey pass, a third pass may be required after consultation with the agencies. Surveys will be led by Authorized Biologists experienced with searching for desert tortoise, potential burrows, scat, and carcasses. Surveys will consist of 100 percent visual coverage using pedestrian belt transects spaced at 5-meter intervals. An additional 500-foot (150 meter) buffer outside the Project boundary will also be surveyed with pedestrian belt transects spaced at 10 meters apart to identify any potentially active burrows that may be indirectly affected by construction activities.

Clearance surveys must be conducted during the active season for desert tortoises (April 1 through May 31 or September 1 through October 31), unless authorized by CDFW and USFWS.

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During the first survey pass, all sign (scat, carcasses, tracks, etc.) shall be removed from the clearance area, which will prevent reidentification of the same tortoise sign in proposed work areas. Desert tortoise carcasses may be returned to USFWS or CDFW, used for educational purposes, or relocated in the natural environment outside the work area fence line, as coordinated with resource agencies.

If a tortoise is located during clearance surveys, work activities will proceed only after the tortoise has either moved away of its own accord, or if it has been relocated or translocated off the site under authorization by the USFWS and CDFW. The buffer distance for work activities shall be 100 feet during the non-active season and at least 250 feet during the active season (September-October and April-May), unless otherwise directed in the CDFW Incidental Take Permit (ITP). Any potentially occupied burrows will be avoided until monitoring or field observations (e.g., with a motion-activated camera or fiber-optic mounted video camera) determines absence. The fence shall be either continuously monitored prior to closure, or clearance surveys shall be repeated prior to closure after tortoises are removed.

Plan requirements for handling of desert tortoise. Only persons permitted by the USFWS and CDFW under the Desert Tortoise Activity Form (i.e., streamlined Section 7 consulta-tion process) or Incidental Take Permit shall handle desert tortoises. All desert tortoises will be handled by an Authorized Biologist in accordance with the Desert Tortoise Field Manual (2009) and the USFWS Revised Translocation Guidance (2020). Authorized Biologists shall handle tortoises in accordance with approved disinfection and sanitation techniques and procedures defined by the Desert Tortoise Health Assessment Procedures (USFWS, 2019a).

Tortoises shall be handled according to seasonal and temperature constraints, where any handling of desert tortoises would always be below the temperature of 95°F. During

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handling, the desert tortoise will be kept in a shaded environment that does not exceed 95°F and will not be released until ambient air temperatures fall below 95°F.

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Biologists will maintain a record of all desert tortoises identified and handled on the Project site, including photographs, time and location of handling, temperature, condition and measurements of the individual, transmitter information, and information on nests, eggs, and voiding of bladder. Should a tortoise void or defecate between capture and release, it shall be thoroughly rehydrated and rinsed to remove any odors that could attract potential predators. Any desert tortoise handling event shall be completed within 30 minutes or less (not including rehydrating a desert tortoise that has voided).

The Plan shall detail methods for attaching transmitters to desert tortoises that will be relocated, translocated, or monitored. The Applicant will consult with the USFWS Desert Tortoise Recovery Office to coordinate transmitter frequencies. Radio transmitters and antennae must be mounted by an Authorized Biologist so as not to impede growth or the daily activities of the tortoise.

The Plan shall detail nest and egg handling procedures. Any nest that is found will be carefully excavated by hand by an Authorized biologist. A nest will be prepared at the release site with the same depth and location in relation to the burrow entrance as the original nest. The eggs will be transferred to the new nest, maintaining their original orientation and replaced so that they touch one another. Eggs will be gently covered with soil from which cobbles and pebbles have been removed so that all the air spaces around the eggs are filled. To the greatest extent practicable, bromating (hibernating) tortoises will not be relocated or translocated. If a bromating desert tortoise cannot be avoided by Project activities or be passively relocated, the tortoise may be captured and released in coordination with USFWS and CDFW.

Procedures for relocation, passive exclusion, and translocation of desert tortoise and identification and description of translocation recipient sites.

Relocation. Desert tortoises less than 160 mm will be relocated as soon as possible after detection. Adult desert tortoises (more than 160 mm) identified for relocation will be

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transmitted and left in situ or within on-site pens following health assessments, data collection, and monitoring, until they can be transported. The Plan shall detail the con-struction of on-site pens, in accordance with USFWS guidance (USFWS, 2011). Relocation and monitoring of tortoises <100 mm will be coordinated with BLM, USFWS, and CDFW on a case-by-case basis at the time of detection. Desert tortoises will be relocated by an Authorized Biologist within 300 meters of their capture locations in suitable habitat, within adjacent BLM land or private land owned by the Applicant.

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Passive exclusion. Passive exclusion shall be prioritized on all linear Project components and in unfenced work areas by using a biological monitor to accompany construction crews and equipment in the field. Construction or maintenance activities will cease if a desert tortoise is detected within the work area or if a tortoise is in imminent danger, until the tortoise moves a safe distance out of the work area. Desert tortoises would be relocated from unfenced work areas if a tortoise does not leave a work area and no other alternate work site is available for crews or an occupied burrow is located within or adjacent to a work area that cannot be avoided.

A Biological Monitor would monitor initial clearing and grading activities for any tortoises missed during the clearance survey. Excavations with steep walls shall have a wildlife escape ramp and be fully covered at the end of the workday to prevent entrapment. After vegetation is fully removed within fenced areas, weekly spot checks shall be conducted to ensure that there are no desert tortoises within the construction area for the duration of the construction phase.

Translocation. If a desert tortoise is found and is not in an area appropriate for relocation (i.e., suitable habitat does not occur within a 1.5-kilometer buffer surrounding the poten-tial release point), the tortoise will be translocated. Translocations shall occur during the tortoise active season.

The Plan shall detail methods and procedures for translocation, including health assess-ments, transportation requirements, and identification of comparable release locations, in accordance with the Desert Tortoise Field Manual (USFWS, 2009). Per the

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USFWS Translocation Guidance (2020), a translocation review package, incorporating the penul-timate health assessment in the month before the scheduled translocation, shall be submitted to Riverside County, BLM, USFWS, and CDFW for approval of the proposed disposition of each tortoise on the Project site.

Recipient sites shall be approved in consultation with BLM, USFWS, and CDFW, and shall be comprised of suitable desert tortoise habitat with modelled high desert tortoise occu-pancy (Nussear, 2009). The recipient site shall be sited within desert tortoise critical habitat, unless otherwise directed by the agencies.

Plan requirements for construction monitoring and reporting

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Construction monitoring and reporting. During the construction phase, the Authorized Biologist shall prepare daily records of desert tortoise observations and site inspections. If at any time a desert tortoise is identified on the Project site, Riverside County, BLM, USFWS, and CDFW will immediately be notified.

Reporting for construction monitoring and implementation of the Plan shall be provided in weekly updates and monthly reporting to Riverside County, BLM and USFWS, as well as quarterly reporting to CDFW. Annual and final reports shall be submitted to Riverside County, BLM, USFWS, and CDFW, as required. Summaries of compliance tortoise surveys, relocation, translocation, and monitoring activities conducted during the previous calendar year will be included.

Translocation monitoring and reporting. Telemetry-based monitoring shall be imple-mented for at least six months to document short-term survival of small numbers of translocated tortoises. The Applicant will consult with Riverside County, BLM, USFWS, and CDFW to determine the appropriate monitoring duration and methodology. All relocated or translocated desert tortoises will be monitored once within 24 hours of release; twice weekly for the first two weeks after release; weekly during the more-active season; biweekly during the less-active season; and for a duration agreed upon by Riverside County, BLM, USFWS, and CDFW from date of release. Health assessments shall be performed twice-annually. Reporting for translocation shall be provided in weekly updates and monthly reporting to

Riverside County, BLM and USFWS, as well as quarterly reporting to CDFW. Annual and final reports will be submitted to Riverside County, BLM, USFWS, and CDFW. Summaries of all compliance tortoise translocation, and post-translocation, effectiveness, and health monitoring activities conducted during the previous calendar year will be included.

Plan requirements for O&M; decommissioning, and adaptive management

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O&M. At the Applicant's discretion, and in consultation with resource agencies, perma-nent desert tortoise exclusion fencing may be installed around each solar facility site. If permanent desert tortoise exclusion fencing is not installed,

Tortoises observed by personnel within the fence line of the solar facility components during routine maintenance activities or along the main access road will be relocated or translocated by permitted biologists, in coordination with USFWS and CDFW. Relocated tortoises will be moved to suitable habitat within 300 meters of where it was found, outside of the fence line within adjacent BLM land or private land owned by the Applicant. Translocated tortoises will be moved to the approved recipient site.

For any routine maintenance or emergency/unexpected repairs that require surface disturbance or heavy equipment desert tortoise shall be allowed to move out of harm's way of its own accord, or the tortoise will be relocated by an Authorized Biologist.

In areas where wildlife-friendly fencing is implemented, temporary exclusion fencing may be removed only after vegetation is successfully re-established and habitat is suitable to support desert tortoise, in coordination with USFWS. If used, wildlife-friendly fencing will be installed around solar arrays in the Pinto Wash Linkage and areas adjacent to desert dry wash woodland that provide higher quality desert tortoise habitat. The security fence would leave a 6- to 8-inch gap between the lower fence margin (rail or mesh) and the ground and the bottom of the fence fabric (chain-link or similar material) would be wrapped upward so that no sharp edges are exposed along the lower fence margin. The fencing would be inspected at least once per quarter by a qualified biologist to identify areas of sand deposits at the fence line or damage to fencing. During the fall and spring quarter, inspections would be performed during active desert tortoise season. Decommissioning. After decommissioning, fencing shall be removed. Desert tortoise con-ser-vation measures shall be in place and the decommissioning activities shall be moni-tored for the presence of desert tortoise and desert tortoise sign. Observations of desert tortoise shall be reported and protection measures shall be coordinated with USFWS and CDFW.

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Adaptive management. Adaptive management measures would be implemented if there is evidence of Project-related disturbance to or increased risk to desert tortoise, and where initial protection methods have been deemed ineffective based on monitoring results. Remedial actions may include repairs or modifications to fencing, additional sur-vey-ing, or additional monitoring and inspections. Adaptive management measures used shall be reported in the annual report.

PREPARE A Raven Management Plan

The Applicant shall develop and implement a Raven Manage-ment Plan to address activi-ties that may occur during the pre-construction, construc-tion, decommissioning, and O&M phases of the Project that may attract common ravens (Corvus corax), a nuisance species that is a subsidized predator of desert tortoises and other sensitive species in the Project vicinity.

The Applicant will submit payment to the Project sub-account of the Renewable Energy Action Team (REAT) Account held by the National Fish and Wildlife Foundation (NFWF) to support the Service's Regional Raven Management Pro-gram. The one-time fee will be as described in the cost allocation methodol-ogy, or more current guidance as provided by the Service or CDFW. The contribution to the regional raven management plan will be \$105 per acre impacted.

The Plan shall be prepared in accordance with USWFS guidelines in Management of Conflicts Associated with Common Ravens in the United States (USFWS, 2023). If raven monitoring indicates an increase in local raven activity attributed to the Project, measures shall be implemented to deter ravens from the site, such as additional worker education, more stringent restrictions on water use or trash disposal, installation of nest-prevention or

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roost-prevention devices on Project facilities, or specific measures to "haze" ravens from Project facilities or subsidies in coordination with USFWS and CDFW.

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PLAN REQUIREMENTS

Consistent with DRECP CMA LUPA-BIO-6 (Subsidized Predators Standards), the Raven Management Plan will be developed and imple-mented to:

- (a) Identify conditions associated with the Project that might provide raven subsidies or attractants, including water, anthropogenic food sources, roadkill for scaven-gers, trash, and perches.
- (b) Describe management practices and control measures to avoid or minimize condi-tions and subsidies that might increase raven numbers and predatory activities, such as proper and regular disposal of food waste and trash using raven proof containers; removing road-killed animals; securing water thanks from leaks; using the minimum amount of water needed for dust control, panel washing, and irrigation; and use of BMPs for perching and roosting per current standards and practices, including APLIC guidelines (2006, 2012).
- (c) Describe monitoring during construction and operations, including roles and respon-sibilities for monitoring biologists, monitoring requirements for food and water sub-sidies, monitoring requirements for raven presence and nesting, and methods to identify individual ravens that prey on desert tortoises.
- (d) Describe reporting requirements for monitoring results, including annual moni-toring reports to be submitted to USFWS, CDFW, BLM, and Riverside County.

MM BIO-8 (Bird and Bat Conservation Strategy (BBCS)) Bird and bat fatality and injury monitoring is being performed at the neighboring Oberon, Arica, and Victory Pass Projects. The approved BBCS plans for these projects include mortality monitoring and sampling methods, sampling design, and survey and data collection protocols. The Applicant shall use the results of post-construction bird and bat monitoring at the Oberon, Arica, and Victory Pass Projects to inform actions to be taken at the Easley Project, focused on the development of adaptive management measures that would minimize impacts and mortality to avian and

bat species.

The Applicant shall prepare and implement a BBCS that acknowledges the ongoing moni-toring at other projects. The BBCS shall be focused on the implementation of adaptive management measures that may be required depending on monitoring results at the other projects. Adaptive management measures shall be developed in consultation with USFWS based on the results of on-going monitoring and current standards and guidelines. Available guidelines include USFWS Considerations for Avian and Bat Protection Plans (USFWS, 2010). These measures would avoid and mini-mize take of birds and bats on the Project site that may be vulnerable to injury or mortality on the Project site and/or collision with Project components (IP Easley, 2023).

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The plan shall be crafted to meet the following standard: If impacts to avian species are documented at Oberon, Arica, Victory Pass, and Easley Projects and these impacts are shown to result in a substantial, long-term reduction in the demographic viability of the population of the species in question, then the Applicant would coordinate with USFWS and CDFW to determine if adaptive management, as described below, must be imple-mented to reduce Project related impacts. Over the course of construction and O&M, fatality thresholds and future conservation measures may be subject to revision in coordination with USFWS and CDFW as new information is obtained.

PLAN REQUIREMENTS

Consistent with DRECP CMAs LUPA-BIO-16 (Activity-Specific Bird and Bat CMAs) and LUPA-BIO-17 (Activity-Specific Bird and Bat CMAs BBCS), the Plan shall include:

• A description of bird and bat species in the Project area;

• A project-specific risk assessment that addresses potential for take, based on threats to birds and bats from the Project, including collision, electrocution, territory abandon-ment, nest and roost site disturbance, habitat loss and fragmentation, disturbance from human presence, and predator subsidies, in accordance with USFWS guidelines (USFWS, 2010);

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• A description of the ongoing monitoring occurring at the Oberon, Arica, and Victory Pass Projects and the findings of these programs as of the date of Plan preparation.

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• A description of the monitoring that will occur at the Project site. Monitoring efforts will be designed to ensure that birds and bats are identified and avoided on the Project site, and that Project related risks are managed to detect and avoid injury and mortality.

• A description of how the adaptive management actions would be developed and a list of potential adaptive management measures that could be implemented if impacts to any avian species are shown to be occurring at Oberon, Arica, Easley, and Victory Pass and these impacts appear likely to result in a substantial, long-term reduction in the demographic viability of the population of the species in question. Adaptive manage-ment measures may include passive avian diverter installations, the use of sound, light or other means to discourage site use consistent with legal requirements, on site habitat management or control measures consistent with applicable legal require-ments, or modification to support structures to exclude nesting birds.

• A requirement that adaptive management measures be implemented until monitoring data indicates that mortality has not increased due to operation of the Project; and that there is not a substantial reduction in demographic viability for the species in question.

BIRD AND BAT COMPENSATION FEE

Consistent with CMA LUPA-BIO-COMP-2 and in coordination with BLM, compensation for mortality impacts to bird and bat focus and special-status species shall be determined based on bird and bat mortality monitoring at the Project and a fee reassessed every five years to fund compensatory mitigation. The fee is calculated based on bird-use and estimated mortality from the Project, per a Resource Equivalency Analysis as directed in CMA LUPA-BIO-COMP-2.

MM BIO-9 (Nesting Bird Management Plan [NBMP]) The Applicant shall prepare and implement a Nesting Bird Management Plan (NBMP) that will provide a framework for surveying, management, and monitoring of bird nesting activities during the construction phase. The NBMP shall be prepared in conjunction with the BBCS.

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The Project will either avoid vegetation clearing during the nesting season or conduct preconstruction nest surveys of potential habitat and implement no-disturbance buffer areas around active nests.

The plan shall ensure that impacts to nesting birds are avoided and minimized through establishment of adequate buffers around active nests, as determined by a qualified biological monitor. Nest surveys shall be conducted for all Project activities throughout the nesting season, (beginning January 1 for raptors and hummingbirds and February 1 for other species, and continuing through August). Nest buffers shall be species-specific, ranging from 100 feet for small passerines to 500 feet for raptors, as defined by the California Public Utilities Commission Nesting Bird Working Group (2015).

Avian Group (nest type/location)	Species Potentially Nesting Within Easley Solar Project Site	Minimum Buffers for Ground Construction per Disturbance Level (feet)*
Waterfowl and rails	Canada goose, wood duck, mallard, cinnamon teal, ruddy duck, Virginia rail, sora, American coot, pied-billed grebe	150
Quail	California quail, Gambel's quail	150
Herons	Great blue heron, great egret, snowy egret, cattle egret, black-crowned night-heron	250
Birds of prey (Category 1)	American kestrel, barn owl, western screech-owl	300
Birds of prey ² (Category 2)	Cooper's hawk, red-tailed hawk, red- shouldered hawk, great horned owl	300
Birds of prey (Category 3)	Turkey vulture, red-tailed hawk, white- tailed kite, northern harrier, long-eared owl	500
Shorebirds	Killdeer	200
Pigeons	Band-tailed pigeon	150

Default Buffers for Nests During Construction

Doves	Mourning dove, white-winged dove, common ground-dove	150
Roadrunners	Greater roadrunner	300
Nightjars	Lesser nighthawk, common poorwill	150
Swifts	White-throated swift	200
Hummingbirds	Anna's hummingbird, Costa's hummingbird	100
Woodpeckers	Acorn woodpecker, ladder-backed woodpecker, Nuttall's woodpecker, downy woodpecker, northern flicker	150
Passerines (bridge, culvert, and building nesters)	Black phoebe, Say's phoebe, Ash-throated flycatcher, northern rough-winged swallow, cliff swallow, barn swallow, house finch (3)	100
Passerines (ground nesters, open habitats)	Horned lark, rock wren, western meadowlark, orange-crowned warbler, lark sparrow, grasshopper sparrow	150
Passerines (understory and thicket nesters)	Bushtit, Bewick's wren, blue-gray gnatcatcher (2), black-throated gray warbler, yellow-breasted chat, spotted towhee, black-chinned sparrow, sage sparrow, song sparrow, black-headed grosbeak, blue grosbeak, lazuli bunting, American goldfinch	150
Passerines (shrub and tree nesters)	Pacific-slope flycatcher, Cassin's kingbird, western kingbird (2), logger-head shrike (2)*, Hutton's vireo, western scrub-jay, American crow, common raven, verdin, bushtit, black-tailed gnatcatcher, blue-gray gnatcatcher (2), cactus wren (2)*, American robin, northern mocking-bird, Le Conte's thrasher, phainopepla, yellow warbler, black-throated gray warbler, yellow-breasted chat, California towhee, black-throated sparrow, song sparrow, summer tanager, great-tailed grackle, hooded oriole, Bullock's oriole, house finch (3), Lawrence's goldfinch, lesser goldfinch	150 (300 for species marked with *)
Passerines (open scrub nesters)	Loggerhead shrike (2)*, verdin, cactus wren (2)*, black-tailed gnat-catcher, wren tit, northern mockingbird, California thrasher, Le Conte's thrasher, Phainopepla, orange-crowned warbler, southern rufous- crowned sparrow, California towhee, black-throated sparrow, Brewer's blackbird, lesser goldfinch	150 (300 for species marked with *)

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Passerines (tower nesters)	Western kingbird (2), common raven, house finch (3)	150
Species not covered under MBTA	Domestic waterfowl, including domesticated mallards, feral (rock) pigeon, ring-necked pheasant, chukar, Eurasian collared dove, spotted dove, parrots, parakeets, European starling, house sparrow	NA

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PLAN REQUIREMENTS

Consistent with DRECP CMAs LUPA-BIO-16 (Activity-Specific Bird and Bat CMAs), LUPA-BIO-17 (Activity-Specific Bird and Bat CMAs BBCS), DFA-BIO-IFS-1 (Individual Focus Species (IFS) (pre-construction/activity breeding season surveys for individual species – Bendire's thrasher, burrowing owl, golden eagle), DFA-BIO-IFS-2 (Setbacks for individual species – Bendire's thrasher, burrowing owl, golden eagle), LUPA-BIO-3 (Resource Setback Standards), LUPA-BIO-RIPWET-3 (BLM Special Status Riparian Bird Species (pre-construc-tion/activity nesting bird surveys)), and LUPA-BIO-IFS-12 (Burrowing Owl (setbacks and monitoring for burrows)) the Plan shall include:

• A site description detailing the suitability of the Project site for nesting birds, the spe-cies that may be encountered, and potential impacts to nesting birds

• Identification of qualifications, roles, and responsibilities of the Lead Biologist, biologi-cal monitors, and avian biologists

• Methods for preconstruction nest surveys and "sweeps" for nesting activity during construction, including the following:

• Pre-construction surveys for active nests shall be conducted by one or more qualified biological monitors at the direction of the Lead Biologist.

• Nest surveys shall be conducted for all Project activities throughout the nesting season, identified here as beginning January 1 for raptors and hummingbirds and February 1 for other species, and continuing through August 15.

• Any nesting surveys involving passerines shall be conducted within 4 days of the initiation of any vegetation clearance or grading. Surveys involving raptors shall be conducted 7 days prior. An additional preconstruction survey shall be conducted

immediately prior to initial Project related, ground disturbing activities to confirm no new nests are found. Surveys shall be repeated regularly during nesting season in nesting habitat.

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• Survey methods shall follow standard nest-locating techniques such as those described in Martin and Guepel (1993). Surveys may be systematic transects, mean-dering transects, or other methods which are determined by the Lead Biologist based on site-specific characteristics, performed in the Project site and a 1,200-foot buffer for raptors and a 300-foot buffer for other species surrounding each work area. If adjacent properties are not accessible to the biological monitors, the off-site nest surveys may be conducted with binoculars.

• Detection of nests shall be reported using an Avian Nest Reporting Form developed in coordination with USFWS and CDFW.

• Establishment of exclusion buffers surrounding active nests and procedures for reduc-tion of buffers including the following:

• At each active nest, the biological monitor shall establish and mark a buffer area surroun-d-ing the nest where construction activities that could disrupt nesting behavior will be excluded.

- The default buffer distance established around a particular nest shall be speciesspe-cific, as developed by the California Public Utilities Commission Nesting Bird Working Group (2015), which ranges from 100 feet for passerines to 500 feet for raptors, in coordination with BLM, CDFW, and USFWS.
- Construction shall not occur within the designated nest exclusion buffer until the nest is no longer active (i.e., the young fledge from the nest, or the nest is abandoned).
- Buffer reductions for special-status species shall not occur beyond the default dis-tances without notification to BLM, USFWS, or CDFW, as appropriate, at least 3 calendar business days prior to the proposed buffer reduction. Any

threatened or endangered listed species would require agency approval prior to any buffer reduction.

• Procedures for active nest monitoring:

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• Active nest monitoring shall occur at a minimum of one to three times per week, depending on site-specific conditions.

Nests shall be monitored and mapped from a distance, and nest details will be recorded including species, nesting stage, and nesting outcome. Only the Lead Biologist or Avian Biologist/Monitor may enter the established buffer zone of a nest.

Guidelines for nest removal:

• If a bird nest must be removed during nesting season, the Applicant shall notify CDFW and USFWS and retain written documentation of the corres-pondence. Nests shall be removed only if they are inactive or if an active nest for a non-special status species presents a hazard to people or other wildlife. Removal of an active nest requires a permit from USFWS, which would be acquired, as needed. All nest removals shall be documented and described in the Annual Report.

• Reporting requirements:

• A nest survey and monitoring log shall document all new and monitored nests, including date, species of bird, nest status (e.g., nest building, incubating, fledglings present, or inactive); unique identification number of each nest monitored and coor-dinates (easting and northing); estimated date of nest establishment; estimated fledge date; description of and distance to nearby construction activities; relative noise level; description of any nearby non-Project activities (e.g., publicly accessible roads or trails); exclusion buffer size; and description of additional measures taken to protect nests.

• Logs and corresponding maps showing the disturbance limits, Project features, and current nest buffer data shall be updated weekly and made available to

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survey crews, construction personnel, and resource agencies.

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• During construction, the Applicant shall provide an Annual Report detailing a summary of nesting activities on the Project site and survey buffers. The Applicant shall provide the annual reports to Riverside County, BLM, CDFW, and the USFWS during the last quarter following each of season of construction that occurs during the nesting season.

Adaptive Management:

• Adaptive management measures shall be implemented if there is evidence of Project-related disturbance to nesting birds where initial protection methods (i.e., buffers) are determined to be ineffective. Triggers for adaptive management include agitation behavior (displacement, avoidance, and defense), increased vigilance beha-vior at nest sites, changes in foraging and feeding behavior, or nest site abandonment.

• Potential adaptive management measures shall be identified, which may include increased buffer width; additional worker education; modifying work intervals, or allowing specific work types that may be implemented on a case-by-case basis; cessation of construction activities that are the source of disturbance to the nesting bird; or installation of visual or sound barriers.

MM BIO-10 (Gen-tie Lines) Gen-tie line support structures and other facility structures shall be designed in compliance with current standards and practices to discourage their use by raptors for perching or nesting (e.g., by use of anti-perching devices). This design also reduces the potential r increased predation of special-status species, such as the desert tortoise. Mechanisms to visually warn birds (permanent markers or bird flight diverters) shall be placed on gen-tie lines at regular intervals to prevent birds from colliding with the lines (APLIC, 2006, 2012). To the extent practicable, the use of guy wires shall be avoided because they pose a collision hazard for birds and bats. Necessary guy wires shall be clearly marked with bird flight diverters to reduce the probability of collision. Shield wires shall be marked with devices that have been scientifically tested and found to significantly reduce the potential for bird collisions. Gen-tie lines shall maintain sufficient distance between all

conductors and grounded components to prevent potential for electrocution of the largest birds that may occur in the area (e.g., golden eagle and turkey vulture). They shall utilize non-specular conductors and non-reflective coatings on insulators.

MM BIO-11 (Burrowing Owl Avoidance and Relocation)

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Burrowing owl protection and relocation will meet the following require-ments, in accordance with CDFW burrowing owl protocols (1993, 2012):

• Pre-construction surveys for burrowing owls, possible burrows, and sign of owls (e.g., pellets, feathers, whitewash) will be conducted throughout each work area. Survey schedules will be coordinated with constructing the desert tortoise exclusion fence and the pre-construction desert tortoise clearance surveys. As needed, follow-up surveys will be conducted no more than 14 days prior to construction.

• Pre-construction surveys shall consist of walking parallel transects 7 to 20 meters apart, adjusting for vegetation height and density as needed, and noting any potential burrows with fresh burrowing owl sign or presence of burrowing owls. If an active burrowing owl burrow is detected within any Project disturbance area, or within a 150-meter buffer of the disturbance area, a 150-meter (500-foot) exclusion buffer will be maintained while the burrow remains active or occupied. The buffer may be reduced to 50 meters (160 feet) during the non-breeding season (September 1 to January 31).-- The size of the buffer may be adjusted based on the time-of-year, and level of disturbance in the area, after consultation with CDFW. The following provides exclusion buffer guidelines for nesting sites (CDFW, 2012); which may be adjusted in the field by the Designated Biologist/Authorized Biologist, in consultation with agency personnel.

- Time of Year	BUOW Buffer Distance (m) and Level of Disturban		
	Low	Medium	High
April 1 – Aug 15	200	500	500

Aug 16 – Oct 15	200	200	500
Oct 16 – Mar 31	50	100	500

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*Levels of disturbance: Low =drive by, low use, once per week; Medium = 15 minutes to 2 hours of activity, less than 49 decibels, one or two passes per day; High = more than 2 hours of activity, more than 49 decibels

• Any unoccupied suitable burrows within the solar facility footprint will be excavated and filled in under the supervision of the Lead Biologist prior to site preparation. Any unoccupied burrows located outside the construction activity zones shall be left in their current condition.

• Passive relocation shall only be used during the non-breeding season, generally September 1 to February 1, to exclude burrowing owls from the Project site. Passive relocation shall be implemented to provide replacement burrows off site (if needed); collapse all unoccupied burrows within the construction site; and install a one-way door on the occupied burrow to evict the burrowing owl without handling it. Prior to any passive relocation, biologists shall survey nearby habitats to identify and inventory suitable unoccupied natural burrows for relocation. If none are available, artificial bur-rows shall be constructed based on the number of burrowing owls in need of relocation.

• Artificial burrows shall be located at least 50 meters outside any temporary or perma-nent Project impact areas, but as close as possible to the original burrow and no more than one mile from the original burrow location if possible. Artificial burrows will be designed, constructed, and installed following guidelines provided in CDFW (2012). All artificial burrows and mapped natural burrows shall be monitored for burrowing owl use at least once per quarter throughout the construction phase of the Project.

Following the excavation of all suitable inactive burrows within the

construction area and installation of artificial burrows, burrowing owls will be passively excluded from occupied burrows. Burrow exclusion will involve the installation of oneway doors in burrow openings during the non-breeding season. Following confirmation that passive exclusion burrows are unoccupied, the burrows shall be carefully excavated using hand tools, or small tracked equipment, and backfilled to ensure that they are no longer suitable for burrowing owl use.

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• Compensatory mitigation for burrowing owl shall include suitable habitat for the species at a minimum of 1:1 ratio, as determined in coordination with CDFW.

MM BIO-12 (Desert Kit Fox and American Badger Relocation) Desert kit fox and American badger protection and relocation will incorporate the following requirements:

• Under direction of the Lead Biologist, biological monitors shall conduct preconstruction surveys for desert kit fox and American badger. Surveys schedules will be coor-dinated with constructing the desert tortoise exclusion fence and the preconstruction desert tortoise clearance surveys. Surveys shall also consider the potential presence of dens within 100 feet of the Project boundary (including utility corridors and access roads).

• If dens are detected each den shall then be classified as inactive, potentially active, or definitely active.

• Inactive dens directly impacted by construction activities shall be excavated and backfilled to prevent reuse. Excavation and backfilling shall be conducted in accor-dance with standard approved desert tortoise burrow excavation and protocols. Excavation will use hand tools or a small driver-operated backhoe under close supervision of a qualified biologist, as there are no excavation standards and proto-cols for desert kit fox or badger.

• All dens identified as potentially active or active within the Project footprint (solar facilities and gen-tie work sites) shall be monitored by a biological monitor for a mini-mum of 3 consecutive nights using a tracking medium such as diatomaceous

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medium or fire clay and/or infrared camera stations at the entrance. Each active or potentially active den shall be further classified as non-natal or natal (pups are present) based on tracks or photos observed after the initial 3 consecutive nights.

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• If after 3 nights of den monitoring, no desert kit fox/badger tracks are found at the burrow entrance and no photos of the target species using the den are observed, it will be determined that the desert kit fox/badger den or complex is inactive and will be excavated. If an active non-natal den is detected on the site, a 100-foot con-struction exclusion zone will be established until passive relocation is successfully com-pleted. Passive relocation methods include spray deterrents, transistor radios, and ultrasonic emitters. Any kit fox hazing activities that include the use of animal repellents such as coyote urine must be cleared through the CDFW prior to use. With CDFW approval, the den may be blocked with natural materials or bag barriers. If these methods are unsuccessful, installation of one-way doors may be used. On the third day following oneway door installation, all den entrances will be inspected to ensure they are clear of sign and that desert kit fox or badger have vacated. Confirmed active dens may be excavated if passive relocation was successful. Dens shall be collapsed prior to construction of the perimeter fence, to allow animals the opportunity to move off site without impediment.

• Potential natal dens shall be monitored for a minimum of 3 additional consecutive nights. If a den or complex is determined to be natal, the CDFW shall be notified via email within 24 hours. A 500-foot no disturbance buffer shall be maintained around all active natal dens. Passive relocation and excavation will not be implemented until monitoring confirms that the den is no longer in active use as a natal den. Active dens identified early in the pupping season, from February 1 to April 30, will not be passively relocated or excavated without prior approval from CDFW.

• The biological monitor shall make weekly visits to the location of passive relocation to ensure that desert kit fox or badger do not re-excavate and reoccupy the area if no active ground disturbing construction is occurring within the vicinity.

• Any documented kit fox mortality shall be reported to the CDFW within 24 hours of identification. If a dead kit fox is observed, it shall be retained and protected from scavengers until the CDFW determines if the collection of necropsy samples is justified.

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MM BIO-13 (Wildlife Protection and Relocation Plan) The Applicant shall prepare and implement a Wildlife Protection and Relocation Plan that incorporates the protection, buffer, and survey requirements for desert tortoise (MM BIO-7), burrowing owl (MM BIO-11), and desert kit fox and American badger (MM BIO-12). The Plan shall specify the requirements for each species and provide a framework for adaptive management and reporting of survey results. The Plan must be reviewed by Riverside County, BLM, CDFW, and USFWS prior to the start of ground-disturbing activities.

Desert tortoise, burrowing owl, desert kit fox, and American badger buffers shall be main-tained as directed in MM BIO-7, MM BIO-10, and MM BIO-11.

PLAN REQUIREMENTS

Consistent with DRECP CMAs LUPA-BIO-6 (Subsidized Predators Standards), LUPA-BIO-9 (Water and Wetland Dependent Species Resources), LUPA-BIO-12 (Noise), LUPA-BIO-14 (General Standard Practices), LUPA-BIO-IFS-12 (Burrowing Owl), LUPA-BIO-IFS-13 (Burrowing Owl), DFA-BIO-IFS-1 (Individual Focus Species (IFS)), the Plan will include:

• A summary of wildlife survey methods and results;

• Detailed qualifications, roles, and responsibilities for the Lead Biologist and monitoring biologists;

• Procedures for pre-construction clearance surveys;

• Prior to construction of solar facility, desert tortoise exclusion fencing will be installed around the entirety of the approved solar field construction areas, as well as parking and laydown areas. No more than 10 days prior to the initiation of fence construction, a pre-activity multi-species survey shall be conducted using techniques that provide 100% visual coverage of the disturbance area. If any burrow within the potential disturbance area for fence construction or inside the planned fence line is determined to be unoccupied, it will be carefully collapsed per guidelines from the Desert Tortoise Field Manual (USFWS, 2009).

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- If a burrow is potentially occupied by a target species, then further actions will be taken to passively exclude the animal during the appropriate season (as detailed in MM BIO-7, MM BIO-10, and MM BIO-11).
- Once the fence is constructed, clearance surveys within fenced areas shall consist of 100% visual coverage using pedestrian belt transects spaced at 5-meter intervals. An additional 500-foot (150-meter) buffer outside the Project boundary shall also be surveyed with pedestrian belt transects spaced at 10 meters apart, where possible, to identify any potentially active burrows or complexes that may be indirectly affected by construction activities. Surveys shall focus on sign for desert tortoise, desert kit fox, American badger, and burrowing owl.

Any burrows or den complexes identified shall be classified as inactive, possibly active, or active. Inactive dens that would be directly impacted by construction shall be excavated. All burrows and kit fox den complexes that are potentially active or active with live individuals inside will be further observed per the requirements of individual species as detailed in MM BIO-7 (desert tortoise), MM BIO-10 (burrowing owl), and MM BIO-11 (desert kit fox, American badger). Confirmed active dens may be excavated upon successful passive relocation. Excavations shall be photographed for reporting to demonstrate success and sufficiency.

Methods for construction monitoring;

• Biological Monitors shall be present during fence construction (security fencing, desert tortoise exclusion fencing, or both for the solar sites), vegetation removal, and ground disturbance to ensure that wildlife is not present. After vegetation is cleared,

biological monitors will perform spot checks in fenced areas immediately prior to initiation of construction to ensure that no wildlife have re-entered the site.

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Along the gen-tie line, biological monitors shall escort construction vehicles and inspect work areas prior to crews beginning any ground disturbance. All parked vehi-cles and equipment, and the ground beneath them, will be inspected for wildlife prior to being moved. Work activities shall be stopped by the Biological Monitor if any target species or other special-status species, such as desert tortoise, enters the work area. Work activities shall proceed at the site only after the animal has either moved away of its own accord or, is moved from harm's way by a biologist with state and federal authorization and according to any conditions identified in applicable authorizations.

• Detailed species-specific exclusion methods for special-status wildlife as follows:

• Couch's spadefoot toad. Potential breeding habitat identified during wildlife surveys shall be inspected after sufficient rainfall for Couch's spadefoot toad. If Couch's spade-foot toads are found on the Project site, the permitting and wildlife agencies will be consulted in order to develop an avoidance strategy.

• Desert tortoise. See MM BIO-7 for details on buffers, monitoring, exclusion, relocation, and translocation.

 Burrowing owl. See MM BIO-10 for details on burrow buffers, monitoring, passive relocation, and excavation.

• Desert kit fox and American badger. See MM BIO-11 for details on den buffers, monitoring, passive relocation, and excavation.

• Procedures for handling sick, injured, or dead wildlife;

• Resource agencies would be immediately notified of sick, injured, or dead wildlife. Written follow-up notification via email will be submitted within 24 hours, including the location (GPS record), photographs (if available), and any relevant

observations at the time of detection. The animal will be handled and transported only on direction from the wildlife agencies. Health and safety precautions will be used at all times when handling the animal.

• Description of adaptive management methods;

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• If there is evidence of Project-related disturbance or increased risk to specialstatus wildlife, where initial protection methods have been deemed ineffective, adaptive management would be implemented in coordination with resource agencies, such as additional surveying and monitoring, increased buffers, seasonal restrictions, additional artificial replacement burrows, or agency approved wildlife relocation.

• Description of reporting requirements;

• During construction, reporting shall be provided in weekly, monthly, quarterly, and annual compliance reports to the permitting and wildlife agencies. During O&M, reports shall be provided quarterly, unless more frequent reporting is prudent based on species presence. Reports shall provide a summary of activities performed and the results for each species. Data recorded shall be submitted as appendices to each report.

MM BIO-14 (Streambed and Watershed Protection) If jurisdictional features cannot be avoided, prior to ground disturbance activities that could impact these aquatic features, the Applicant shall file a complete Report of Waste Discharge with the RWQCB to obtain Waste Discharge Requirements (WDR) and shall consult with CDFW on the need for a streambed alteration agreement. If permits are required, they shall be obtained prior to disturbance of jurisdictional resources. Copies of the approved permit shall be submitted to Riverside County.

Compensatory mitigation for impacts to jurisdictional streambeds/washes shall be identi-fied prior to disturbance of the features at a minimum 1:1 ratio, and a 5:1 ratio for minor incursions to desert dry wash woodland, as approved by RWQCB or CDFW, either through onsite or offsite mitigation, or purchasing credits from an approved mitigation bank. The Applicant shall comply with the compensatory mitigation required and provide proof of

compliance, along with copies of permits obtained from the RWQCB and/or CDFW shall be provided to Riverside County.

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A Stormwater Pollution Prevention Plan (SWPPP) or SWPPP-equivalent docu-ment shall be prepared by a qualified engineer or erosion control specialist and imple-mented before and during construction. The SWPPP shall include BMPs for storm-water runoff quality control measures, management for concrete waste, storm-water detention, watering for dust control, and construction of perimeter silt fences, as needed.

• The Applicant shall implement BMPs identified below to minimize adverse impacts to streambeds and watersheds.

• Vehicles and equipment will not be operated in ponded or flowing water except as specified by resource agencies.

• The Applicant will minimize road building, construction activities, and vegetation clearing within ephemeral drainages.

• The Applicant will prevent water containing mud, silt, or other pollutants from gra-ding or other activities from entering ephemeral drainages or being placed in locations that may be subjected to high storm flows.

• Spoil sites will not be located within 30 feet from the boundaries of drainages or in locations that may be subjected to high storm flows, where spoils might be washed back into drainages.

• Raw cement/concrete or washings thereof, asphalt, paint or other coating material, oil or other petroleum products, unapproved herbicides, or any other substances that could be hazardous to vegetation or wildlife resources, resulting from Project-related activities, will be prevented from contaminating the soil and/or entering ephemeral drainages. The Applicant shall ensure that safety precautions specified by this measure, as well as all other safety requirements of other measures and permit conditions are followed during all phases of the Project.

• When operations are completed, any excess materials or debris will be

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removed from the work area. No rubbish will be deposited within 150 feet of the highwater mark of any drainage during construction, operation, and decommissioning the Project.

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• No equipment maintenance will occur within 150 feet of any wetland, Category 3, 4, or 5 streambed, or any streambed greater than 10 feet wide. No petroleum products or other pollutants from the equipment will be allowed to enter these areas or enter any off-site state jurisdictional waters under any flow.

• With the exception of the drainage control system installed for the Project, the installa-tion of bridges, culverts, or other structures will be such that water flow (velo-city and low flow channel width) is not impaired. Bottoms of temporary culverts will be placed at or below stream channel grade.

• No broken concrete, debris, soil, silt, sand, bark, slash, sawdust, rubbish, or other orga-nic or earthen material from any construction or associated activity of whatever nature will be allowed to enter into or be placed where it may be washed by rainfall or runoff into, off-site state jurisdictional waters.

• Stationary equipment such as motors, pumps, generators, and welders located within or adjacent to a drainage will be positioned over drip pans. Stationary heavy equipment will have suitable containment to handle a catastrophic spill/leak. Clean up equipment such as brooms, absorbent pads, and skimmers will be on site prior to the start of construction.

• The cleanup of all spills will begin immediately. USFWS, SWRCB, CDFW, BLM, and Riverside County will be notified immediately by the Applicant of any spills and will be consulted regarding clean-up procedures.

DRECP CMAs:

Applicable CMAs are described in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. CMAs specifically applicable under Impact BIO-1 are detailed at pp. 3.5-23 through 3.5-59.

Impact: Threatened and Endangered Species (BIO-2)

Threshold: The Project would not have a substantial adverse effect, either directly or through habitat modifications, on any endangered, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12).

Findings of Fact, Less Than Significant with Mitigation Measures:

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Construction and operation of the Project could adversely affect threatened and endangered species by removing and degrading their habitat or from direct disturbance, mortality, or injury, as described for Impact BIO-1. Adverse effects could result from such activities as crushing, mowing, grubbing, trimming, grading, and compaction. Altered hydrology could affect habitats. Dust accumulation could affect threatened and endangered species. Spread and infestation of weed species could degrade habitat. Vehicles and equipment could crush plants and wildlife and destroy wildlife burrows, dens, or nests. Increased noise, lighting, opportunistic predators, and human activity could disturb wildlife in and near Project areas. Project operation may result in impacts to plants and wildlife from the "heat island effect", and may impact threatened and endangered birds through collision with PV panels or electrocution from gen-tie lines.

Vegetation and habitat. The Project would permanently impact native habitats in creosote bush scrub, desert dry wash woodland, and desert pavement on the Project site. All affected habitats may support threatened and endangered species. Vegetation and soils would be disturbed or directly crushed, buried, or uprooted, as described in Impact BIO-1. Invasive weeds may spread into disturbed areas and degrade habitat. During operations, increased temperatures from a "heat island effect" may impact the success of re-vegetation.

Without mitigation, the loss of vegetation and natural habitat on the Project site would significantly affect threatened and endangered species on the site or vicinity. Impacts would be minimized by implementing mitigation measures (MMs) BIO-1 to BIO-5 as previously described and as listed in Appendix L, MMRP, which requires use of qualified biologists for surveying and monitoring, training of construction personnel on identifying and avoiding sensitive plant and wildlife resources, clear demarcation of vegetation for removal and low impact site preparation, managing non-natives in disturbance areas, and revegetating disturbance areas with native habitat.

7-9

The Project has been designed to avoid desert dry wash woodland (except for minor incursions). Compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would require permanent protection of comparable off-site habitat to offset the Project's impacts to native habitat, sensitive habitats, and designated critical habitat. The compensation lands identified are much higher quality habitat than the designated critical habitat on the Project site.

The Project is required to comply with DRECP CMAs for all project activities and development on BLM land. Compliance with the following CMAs would mitigate impacts to less than significant impacts: LUPA-BIO-1 (habitat assessments and protocol surveys); LUPA-BIO-2 (biological monitoring); LUPA-BIO-5 (worker education); LUPA-BIO-7 (construction restoration); LUPA-BIO-10 (weed management); LUPA-BIO-11 (nuisance animals and invasive species); LUPA-BIO-13 (siting and design); LUPA-BIO-13 (siting and design); LUPA-BIO-SVF-1 (habitat assessment for special vegetation features); LUPA-BIO-VEG-1 to -3 (vegetation management). The following CMAs describe protection for desert dry wash woodland: LUPA-BIO-3 (setbacks), LUPA-BIO-RIPWET-1 (riparian and wetland setbacks), LUPA-BIO-SVF-6 (avoidance of microphyll woodland), LUPA-BIO-COMP-1 and LUPA-VPL-BIO-COMP-1 (compensatory mitigation) The Project would avoid desert dry wash woodland with a 200-foot setback buffer, except for minor incursions, consistent with the CMAs.Collectively, these measures ensure that impacts to vegetation and habitat for special-status species would be less than significant with mitigation.

Threatened and endangered plants. The project would not affect state or federally listed threatened or endangered plants.

7-9

Threatened and endangered wildlife. Impacts to specific threatened and endangered wildlife species are discussed below and are minimized and avoided by implementation of MM BIO-6 (Wildlife Protection), which identifies numerous requirements to minimize or avoid wildlife injury and entrapment such as site and vehicle inspections; management and covering of stored project materials; ramps to ensure escape from excavations, trenches, auger holes, and water tanks; prevention of attractants for opportunistic predators such as trash or water; hazardous material management; and vehicle speed limits. Impacts to wildlife due to disturbance, degradation, and removal of habitat would be minimized and avoided with MMs BIO-1 to BIO-5, as previously discussed for vegetation and habitat. MMs BIO-3, BIO-7, and BIO-14 would offset the permanent habitat loss by requiring off-site habitat compensation. Avoidance of desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation for protected habitats would preserve habitat values and offset habitat loss.

The Project is required to comply with DRECP CMAs for all Project activities on BLM land. The following CMAs, previously listed for vegetation and habitat, would also reduce impacts to wildlife habitat used by threatened or endangered species for the same reasons: LUPA-BIO-1 (habitat assessments and protocol surveys); LUPA-BIO-2 (biological monitoring); LUPA-BIO-5 (worker education); LUPA-BIO-7 (construction restoration); LUPA-BIO-10 (weed management); LUPA-BIO-11 (nuisance animals and invasive species); LUPA-BIO-13 (siting and design); LUPA-BIO-13 (siting and design); LUPA-BIO-13 (siting and design); LUPA-BIO-13 (siting and design); LUPA-BIO-13 (setbacks); LUPA-BIO-RIPWET-1 (riparian and wetland setbacks); LUPA-BIO-SVF-6 (avoidance of microphyll woodland); LUPA-BIO-COMP-1 and LUPA-VPL-BIO-COMP-1 (compensatory mitigation). In addition to CMAs that protect wildlife habitat, the following CMAs would be implemented to minimize impacts to threatened and endangered wildlife that may be present: LUPA-BIO-4 (seasonal restrictions); LUPA-BIO-6 (subsidized

predator measures); LUPA-BIO-12 (noise); LUPA-BIO-14 (general standard practices); LUPA-BIO-15 (general construction standards); and DFA-BIO-IFS-1 to -3 (protocol surveys and setback buffers).

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The following paragraphs summarize additional species-specific impacts and mitigation measures. Collectively, these measures ensure that impacts to threatened and endangered wildlife would be less than significant with mitigation.

- *Crotch bumble bee.* The Project site supports potentially suitable habitat for Crotch bumble bee; however, no bees have been observed and the Project site is located east of the current range. The easternmost portion of the gen-tie line on the Oberon Project site overlaps with the historic range. If present, Crotch bumble bee may be at risk of disturbance or mortality from loss of forage plants, destruction of burrows and nests, and disturbance from noise and increased human activity. MMs BIO-1 to BIO-5, previously discussed, would minimize adverse impacts to native vegetation. MMs BIO-3, BIO-7, and BIO-14 would offset the permanent habitat loss. MM BIO-6 would minimize mortality and injury of wildlife by managing work site hazards and implementing pre-construction inspections for nests. The Project would comply with the CMAs previously described for all special-status wildlife species, which would minimize impacts to Crotch bumble bee.
- *Desert tortoise*. As a state and federally listed threatened species, take (such as injury or mortality, as well as handling of a desert tortoise) may only be authorized through consultation with the USFWS and CDFW. A desert tortoise on the Project site during construction or O&M would be vulnerable to impacts such as mortality or injury due to vehicle collision, crushing by site preparation equipment, loss of burrows and suitable burrowing soils, or increased predation by opportunistic predators such as common ravens that may be attracted to the Project site. If project activities cause injury or mortality to a desert tortoise, this would be a significant adverse impact. If

the site is a part of a desert tortoise's home range, land use conversion could reduce local habitat availability. MMs BIO-1 to BIO-5, previously discussed, would minimize adverse impacts to native vegetation and desert tortoise habitat. MMs BIO-3, BIO-7, and BIO-14 would offset the permanent habitat loss by requiring off-site habitat compensation. MM BIO-6 would minimize mortality and injury to desert tortoise. MM BIO-7 (Desert Tortoise Protection) would minimize impacts to and avoid lethal take of desert tortoise during construction and O&M. MM BIO-7 requires pre-construction clearance surveys and monitoring, exclusion, or translocation of desert tortoises from active work areas, vehicle inspections to prevent any potential fatality or injury of desert tortoise, and implementation of a Raven Management Plan to manage predators and subsidies. In addition to CMAs previously detailed for all special-status wildlife species, the following CMAs would be implemented on BLM land within the Project site to minimize impacts to desert tortoise: LUPA-BIO-IFS-1 to -9 (desert tortoise protective measures); LUPA-BIO-COMP-1 and DFA-VPL-BIO-COMP-1 (compensatory mitigation); DFA-VPL-BIO-IFS-1 (desert tortoise protection siting)

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• Desert tortoise critical habitat. On BLM-administered lands, USFWS acknowledged that approximately 11,290 acres of modeled desert tortoise habitat within the DRECP DFAs would eventually be developed for renewable energy. USFWS concluded that the DRECP LUPA was not likely to jeopardize the continued existence of the desert tortoise and would benefit its recovery. The proposed solar plants were primarily located outside of critical habitat and areas of critical environmental concern, which contain most of the land base required for recovery of the species, and the projects included numerous measures intended to protect desert tortoise, consistent with the recommendations of the USFWS desert tortoise recovery plan. The gen-tie route 175-foot ROW overlaps with approximately 28.2 acres of critical habitat for desert tortoise in the southern portion of the Oberon Project site.

Up to 7 gen-tie structures (approximately 15 acres) would be installed within critical habitat for the desert tortoise. MM BIO-7 (Desert Tortoise Protection) would require vehicle inspections for tortoise and vehicle speed limits, which would increase detection of desert tortoise that require avoidance to prevent injury or mortality. If a tortoise is observed within or near a work site, Project work activities will proceed only within a suitable buffer area after the tortoise has either moved away of its own accord, or if it has been translocated off the site under authorization by the USFWS and CDFW, which would avoid tortoise injury and mortality. Compensatory mitigation for desert tortoise will include a minimum of 1:1 ratio for impacts to desert tortoise suitable habitat (creosote bush scrub) and a ratio of 5:1 for impacts to desert tortoise critical habitat, in coordination with USFWS, CDFW, and in compliance with any ITPs. Compensatory mitigation would offset loss of desert tortoise habitat. The Desert Tortoise Protection and Relocation Plan (MM BIO-7) (Appendix P) would require a USFWS Authorized Biologist during construction to conduct or direct pre-construction clearance surveys for each work area and direct Biological Monitors to watch for tortoises wandering into the construction areas, check under vehicles, and examine excavations and other potential pitfalls for entrapped animals. The Authorized Biologist will have the authority to halt all Project activities that are in violation of these measures or that may result in take of a desert tortoise. Desert tortoises would not be handled or moved without incidental take authorization from the USFWS and CDFW. Any desert tortoise handling or translocation would be performed according to the permits and the Desert Tortoise Relocation Plan, pending approval by both agencies. These measures would ensure that desert tortoise are identified and avoided in work areas prior to construction, and safely excluded from burrows and relocated out of harm's way. By following agency protocols for tortoise surveying, handling, and relocating, and by using qualified and permitted biological staff, individual desert tortoise would be detected for avoidance and monitoring, and mortality and injury during construction and relocation would be reduced. MM BIO-

7-9

7 further requires a Raven Management Plan (EIR Appendix Q), which would be developed to minimize opportunistic predation related to Project subsidies such as trash, food, water, perches, and roadkill. By reducing attractants to the site, desert tortoise predation would be minimized. With implementation of the mitigation measures described above on private land within the Project site and implementation of the CMAs described above for threatened and endangered wildlife on BLM land within the Project site, impacts to desert tortoise would be mitigated to less than significant.

7-9

Birds. Direct removal of vegetation and habitat on the Project site would reduce availability of foraging, cover, and nesting habitat for threatened and endangered birds and their prey. During construction, if present, threatened and endangered birds may be disturbed or deterred from the Project site due to loss of foraging, nesting, or sheltering habitat and increased human presence, noise, vibrations, and lighting. In most cases, adult birds would fly away from the disturbance, but bird nests (including eggs or nestlings, if present) could be destroyed, resulting in injury or mortality of individuals. There is no suitable nesting habitat on or near the Project site for the four federally listed riparian bird species known from the vicinity (western yellow-billed cuckoo, southwestern willow flycatcher, least Bell's vireo, and Yuma Ridgway's rail): therefore, there would be no direct or indirect effects to nests, nest success, or nesting habitat. No Gila woodpecker or elf owl observations were made during surveys, and there is a low probability that they may nest in desert wash woodland habitat due to a low number of suitable nesting trees. The Project site provides potential migration season foraging habitat for Swainson's hawk; none were observed during surveys and the site is outside the nesting range. Disturbance and loss of foraging habitat would be minimized and mitigated, as previously described, with implementation of MMs BIO-1 to BIO-5. MMs BIO-3, BIO-7, and BIO-14 would offset permanent habitat loss by requiring off-site habitat compensation. MM

1	BIO-6 would minimize mortality and injury to birds from work site hazards.
2	Protective measures for wildlife in MM BIO-6 and the requirements of protective
3	measures for birds in MM BIO-8, -9, and -10 would ensure that injury and mortality
4	of birds associated with operational hazards and risks would be managed and avoided
5	and that bird nests are protected from destruction. In addition to the CMAs previously
6	detailed for all threatened and endangered wildlife species, the following CMAs
7	would be implemented on BLM land within the Project site to minimize impacts to
8	threatened and endangered birds: LUPA-BIO-16 to -17 (bird and bat conservation
9	strategy); LUPA-BIO-RIPWET-3 (riparian bird surveys and monitoring); LUPA-
10	BIO-COMP-2 (compensatory mitigation). (EIR pp. 3.5-56 and 3.5-81).
11	Mitigation Measures:
12	MM BIO-1 (Biological Monitoring) Full text under Biological Resources
13	MM BIO-2 (Worker Environmental Awareness Training) Full text under Biological
14	
15	Resources.
16	MM BIO-3 (Minimization of Vegetation and Habitat Impacts) Full text under
17	Biological Resources.
18	MM BIO-4 (Integrated Weed Management Plan) Full text under Biological Resources.
19	MM BIO-5 (Vegetation Resources Management Plan) Full text under Biological
20	Resources.
21	MM BIO-6 (Wildlife Protection) Full text under Biological Resources.
	MM BIO-7 (Desert Tortoise Protection) Full text under Biological Resources.
22	MM BIO-8 (Bird and Bat Conservation Strategy) Full text under Biological Resources.
23	MM BIO-9 (Nesting Bird Management Plan) Full text under Biological Resources.
24	MM BIO-10 (Gen-tie lines) Full text under Biological Resources.
25	MM BIO-13 (Wildlife Protection and Relocation Plan) Full text under Biological
26	Resources.
27	
28	DRECP CMAs:

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Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. CMAs specifically applicable under Impact BIO-2 are detailed at FEIR pp. 3.5-59 through 3.5-86. *Impact: Wildlife Corridors (BIO-3)*

Threshold: The Project would not interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.

Findings of Fact, Less Than Significant with Mitigation Measures:

7-9

Wildlife movement through the area to the north, east, and south is compromised by the existing pattern of land use, including solar projects either planned, in-construction, or operational; lands west of the Project site, across Kaiser Road, are designated as Tortoise Conservation Area (TCA). The Desert Harvest and Desert Sunlight Solar Projects are adjacent to the north, and the Athos and Oberon Solar Projects are adjacent to the east and south. The Arica and Victory Pass Solar Projects and the I-10 freeway are located in the vicinity to the east and south. The proposed solar facility would further interrupt potential wildlife movement routes through the area, primarily for movement across undisturbed desert scrub and desert dry wash woodland habitat and anthropogenically disturbed land (agriculture).

The northern portion of the Project area overlaps with a BLM DRECP wildlife linkage (Pinto Wash linkage); however, since the Project site is within a BLM DRECP DFA (EIR Figure 2-4), development for renewable energy was targeted for this area and solar development already existed within this linkage area prior to development of the DRECP (Desert Sunlight) (EIR Figure 3.5-10). Under the DRECP, the Pinto Wash linkage occupies a vast area over 32,500 acres. The DRECP FEIS notes that up to 6,000 acres of desert linkage network could be impacted by solar development in the Cadiz Valley and Chocolate Mountains area. Additionally, this portion of the linkage is categorized by the DRECP as non-habitat or low-quality habitat. This linkage area also overlaps with the adjacent Athos, Arica, Victory Pass, and Oberon Solar Project sites. Construction of these projects is complete. The Athos Project is located on private lands administered by Riverside County; the Arica and Victory Pass Projects are located on BLM lands; the Oberon Project is located on BLM lands. Development within the linkage area would further reduce the available wildlife movement habitat for many species, including desert tortoise and burro deer.

7-9

Projects on BLM land are subject to DRECP CMAs and therefore would avoid or minimize development in desert dry wash woodland vegetation and leave a portion of the multiple-species linkage area open to wildlife movement. Avoidance of desert dry wash woodland on these project sites, except for minor incursions in accordance with DRECP CMAs, and avoidance of a portion of native habitat in the Pinto Wash linkage, would preserve habitat for wildlife movement in the linkage.

In coordination with USFWS, the Project could include a wildlife-friendly fencing design for a portion of the project fence line that overlaps with the Pinto Wash Linkage, providing a gap along the bottom of the fence that would allow small wildlife, including desert tortoise and desert kit fox, to pass through. Use of wildlife-friendly fencing would be determined in coordination with USFWS, based on success of revegetation, habitat suitability for wildlife, wildlife use at the site, and success of its use at other sites. Revegetated areas within the wildlife-friendly fence would provide marginal habitat to support movement within and through the site.

Mitigation measure requirements include the acquisition of conservation lands at a 5:1 ratio for impacts to desert dry wash woodlands and desert tortoise critical habitat, and at a ratio of 1:1 for impacts to creosote bush scrub and desert pavement habitats, to compensate for impacts to wildlife and habitat. The Project design and the implementation of Mitigation Measures MM BIO-1 through MM BIO-14 and any other conditions imposed by BLM, USFWS, and/or CDFW will result in less than significant impacts with mitigation.

Mitigation measures MM BIO-3 (Minimization of Vegetation and Habitat Impacts), MM BIO-7 (Desert Tortoise Protection), and MM BIO-14 (Streambed and Watershed Protection) would require acquisition and management of comparable off-site vegetation and habitat in perpetuity to offset the permanent loss of natural vegetation and habitat on the Project site. This measure would offset the Project's impacts to wildlife movement habitat.

7-9

Wildlife "nursery sites" such as bird nests or suitable breeding habit for other species may be found throughout the Project site. MM BIO-1 through MM BIO-5 would minimize and offset habitat impacts for common wildlife and special-status species. MM BIO-6 through BIO-13 would prevent or offset adverse effects to special-status wildlife nesting or breeding sites, including for desert tortoise, native birds and bats, burrowing owls, desert kit fox, and American badger, by requiring specific pre-construction surveys, passive translocation of certain species away from the area, avoidance of buffer areas while bird nests are active, and other related requirements. MM BIO-14 would protect jurisdictional waters and desert dry wash woodlands that provide important habitat for wildlife movement.

Gen-tie construction activities could dissuade wildlife from approaching construction areas due to noise and disturbance. This effect would be temporary (limited to the construction phase). Once completed, the gen-tie lines would have minimal effects on terrestrial wildlife movement. However, the gen-tie towers and conductors would present a collision hazard for birds. As discussed in Impact BIO-1, Mitigation Measure MM BIO-8 (Bird and Bat Conservation Strategy) would require the identification of potential hazard to birds and bats during construction and post-construction adaptive management. Adaptive management measures would be developed in accordance consultation with USFWS based on the results of on-going monitoring and current standards and guidelines. Mitigation Measure MM BIO-9 would require pre-construction surveys to identify active bird nests and avoid disturbance or disruption of nesting behavior. MM BIO-10 (Gen-tie Lines) would require mechanisms to visually warn birds with permanent markers or bird flight diverters; avoid or minimize use of guy wires; and maintain sufficient distance between all conductors

and grounded components to prevent electrocution. These measures would effectively minimize impacts to wildlife movement across the proposed gen-tie routes.

7-9

The Project is required to comply with DRECP CMAs for all Project activities on BLM land. The following CMAs, previously listed for vegetation and habitat in Impact BIO-1, would also reduce impacts to habitat in wildlife movement corridors for the same reasons: LUPA-BIO-1 (habitat assessments and protocol surveys); LUPA-BIO-2 (biological monitoring); LUPA-BIO-5 (worker education); LUPA-BIO-7 (construction restoration); LUPA-BIO-10 (weed management); LUPA-BIO-11 (nuisance animals and invasive species); LUPA-BIO-SVF-1 (special vegetation features); LUPA-VEG-1 to –3 and LUPA-BIO-VEG-5 to -6 (vegetation management); LUPA-BIO-3 (setbacks); LUPA-BIO-RIPWET-1 (riparian and wetland setbacks); LUPA-BIO-SVF-6 (avoidance of microphyll woodland); LUPA-BIO-COMP-1 and LUPA-VPL-BIO-COMP-1 (compensatory mitigation). **(EIR pp. 3.5-82 and 3.5-89).**

Mitigation Measures:

MM BIO-1 (Biological Monitoring) Full text under Biological Resources.

MM BIO-2 (Worker Environmental Awareness Training) Full text under Biological Resources.

MM BIO-3 (Minimization of Vegetation and Habitat Impacts) Full text under Biological Resources.

MM BIO-4 (Integrated Weed Management Plan) Full text under Biological Resources. MM BIO-5 (Vegetation Resources Management Plan) Full text under Biological Resources.

MM BIO-6 (Wildlife Protection) Full text under Biological Resources.

MM BIO-7 (Desert Tortoise Protection) Full text under Biological Resources.

MM BIO-8 (Bird and Bat Conservation Strategy) Full text under Biological Resources.

MM BIO-9 (Nesting Bird Management Plan) Full text under Biological Resources.

MM BIO-10 (Gen-tie lines) Full text under Biological Resources.

MM BIO-13 (Wildlife Protection and Relocation Plan) Full text under Biological Resources.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstrative of compliance with the CMA. CMAs specifically applicable Under Impact BIO-3 are detailed at FEIR pp. 3.5-86 through 3.5-94.

Impact: Riparian Habitat (BIO-4)

Threshold: The Project would not have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U. S. Fish and Wildlife Service.

Findings of Fact, Less Than Significant with Mitigation Measures:

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Desert dry wash woodland (DDWW) is a BLM sensitive vegetation community and is recognized with a state rarity rank of S4. It is a xeric riparian community characteristic of desert washes and is likely to be regulated by the California Department of Fish and Wildlife (CDFW) as jurisdictional State waters. The BLM DRECP includes it as one of the microphyll woodland communities. Desert dry wash woodland provides greater opportunities for food, nesting, and cover, and its wildlife diversity is generally greater than in the surrounding desert. The associated seasonal washes transport water, seeds, and other nutrients to desert ecosystems miles away.

Desert pavement, a unique habitat type that stabilizes fine sediments and increases infiltration, was identified on the Project site.

Except for minor incursions of linear features and where there is existing intervening infrastructure on private land, construction of the Project would avoid the desert dry wash woodland on the Project site with a 200-foot setback buffer, consistent with DRECP CMA LUPA-BIO-RIPWET-1 and LUPA-BIO-SVF-6. While the associated sensitive vegetation

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community was not identified on site, desert pavement impacted by the Project is treated as sensitive.

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Low impact site preparation (crushing and mowing) (MM BIO-3) would preserve rootstocks wherever facilities do not require permanent vegetation removal and BMPs would be implemented to limit grading and minimize disturbance. MMs BIO-1 through BIO-5, described in detail in Impact BIO-1, protect native vegetation by restricting disturbance to work areas, promoting low impact construction methods, preserving vegetation under solar panels, and improving post-construction habitat values. These measures require biological monitoring; worker environmental training; flagging and protection of non-target vegetation; weed management; re-vegetation of temporarily disturbed areas; monitoring and management of re-vegetation; and compensated at a ratio of 5:1, per MM BIO-14 (Streambed and Watershed Protection) and consistent with CMA LUPA-BIO-COMP-1. Impacts to desert pavement would be compensated at a ratio of 1:1, per MM BIO-3 (Minimization of Vegetation and Habitat Impacts).

The Project is required to comply with DRECP CMAs for all Project activities on BLM land. The following CMAs, previously listed for vegetation and habitat in Impact BIO-1, would also reduce impacts to sensitive natural communities and riparian habitats for the same reasons: LUPA-BIO-1 (habitat assessments and protocol surveys); LUPA-BIO-2 (biological monitoring); LUPA-BIO-3 (setbacks); LUPA-BIO-5 (worker education); LUPA-BIO-7 (construction restoration); LUPA-BIO-10 (weed management); LUPA-BIO-11 (nuisance animals and invasive species); LUPA-BIO-13 (siting and design); LUPA-BIO-RIPWET-1 (riparian and wetland setbacks); LUPA-BIO-SVF-6 (avoidance of microphyll woodland); LUPA-BIO-COMP-1 and LUPA-VPL-BIO-COMP-1 (compensatory mitigation)

Collectively, these measures would reduce impacts to riparian habitat or other

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sensitive natural	communities to a less than	significant level with mitigation. (EIR pp. 3.
89 to 3.5-94).		
Mitigation Mea	sures:	
MM BIO-1 (Bid	ological Monitoring) Full	text under Biological Resources.
MM BIO-2 (W	orker Environmental Aw	areness Training) Full text under Biologica
Resources.		
MM BIO-3 (N	linimization of Vegetati	on and Habitat Impacts) Full text unde
Biological Reso	urces.	
MM BIO-4 (Int	egrated Weed Manageme	nt Plan) Full text under Biological Resource
MM BIO-5 (V	egetation Resources Ma	nagement Plan) Full text under Biologica
Resources.		
DRECP CMAs:	:	
Applicable CMA	As are detailed in EIR App	endix CC, which provides a list of CMAs, a
explanation of th	eir applicability, and demo	nstration of compliance with the CMA. CMA
specifically appli	icable under Impact BIO-4	are detailed at FEIR pp. 3.5-95 through 3.5-100
Impact: Wetland		
Threshold: The	proposed project would no	t have a substantial adverse effect on State o
federally protected	ed wetlands (including, but	not limited to, marsh, vernal pool, coastal, etc.
through direct re	emoval, filling, hydrologica	interruption, or other means.
Findings of Fact,	Less Than Significant with	Mitigation Measures:
No wetlar	nds would be affected by the	ne Project. State-regulated jurisdictional water
are found along u	invegetated ephemeral was	hes and desert dry wash woodlands (see Impac
BIO-4) througho	ut the Project site and along	g the gen-tie line. The Project site is not subjec
to federal regulat	ion due to its location withi	n the Colorado River Hydrologic Region (HR)
in the Big Wash	and Hayfield Lake-Lake Ta	marisk HUC 10 Hydrologic Areas, which flov
to closed basins,	not connected with the Cold	rado River or other traditional navigable water

(TNW). Except for minor incursions of linear features and where there is existing intervening infrastructure on private land, construction of the Project would avoid the desert dry wash woodland on the Project site with a 200-foot setback buffer, except for minor incusions, consistent with DRECP CMAs.

7-9

Impacted state jurisdictional waters on the site include a small acreage (less than 2.5 acres) of native desert dry wash woodland habitat, addressed in detail under Impact BIO-1 and Impact BIO-4, and unvegetated ephemeral dry washes crossing creosote bush scrub. Active channels within the lower alluvial fan, where the Project is situated, showed signs of frequent avulsion (changes in flow direction following surface water flow events) due to patterns of brief, intense surface water flow, resulting in a network of active and inactive (abandoned) channels. Two wetland areas were identified as anthropogenic wetlands created by adjacent agricultural activities, from artificial water sources and berms; these wetlands would be avoided.

Impacts to State jurisdictional streambeds would require the Applicant to obtain a Lake and Streambed Alteration Agreement (LSAA) from the CDFW. For the Project, Regional Water Board jurisdiction includes unvegetated ephemeral dry wash measured to the ordinary highwater mark, and desert dry wash woodland on public and private lands; CDFW jurisdictional waters include unvegetated ephemeral dry wash measured bank-to-bank, and desert dry wash woodland on public and private lands.

Construction would involve minor changes to on-site topography and alteration of the existing drainage pattern should be minimal because of the minimal grading proposed. The Project plans to maintain natural drainage to the maximum extent feasible and the proposed layout of solar panels would avoid major existing hydrologic patterns with respect to runoff, avoiding washes, stream beds, stream banks, where feasible. The Project may include diversions at security fencing and require detention basins, but no other substantial alteration to the existing surface hydrology would occur. Additionally, the preservation of vegetation under the solar panels would mitigate impacts of erosion and increased runoff.

7-9

After construction, water and sediment on the Project site would be conveyed downslope, across the site, by sheet flow or within channels. However, surface flow patterns, velocities, and sediment loads may be altered throughout the site by solar panel foundations and piles, access roads, fencing, BESS, substation yards, O&M building, and other Project features.

Potential impacts to jurisdictional waters from Project activities could include decoupling of flows due to installation of Project facilities or components, increased siltation, fluvial transport of silts or pollutants through the ephemeral channels, and altered flows resulting in erosion or elimination of natural sediment transport to downstream habitat areas.

These impacts would be addressed by MM BIO-1 through MM BIO-5 related to protection of vegetation and habitat, described under Impact BIO-1, and by MM BIO-14 (Streambed and Watershed Protection), which requires a series of Best Management Practices (BMPs) to prevent or minimize adverse effects to streambed function and off-site habitats. The Applicant would be required to obtain a LSAA from the CDFW prior to initiating construction in jurisdictional waters of the State.

The Project is required to comply with DRECP CMAs for all Project activities on BLM land. The following CMAs, previously listed for vegetation and habitat in Impact BIO-1, would also reduce impacts to jurisdictional waters, stream channels, and habitats for the same reasons: LUPA-BIO-1 (habitat assessments and protocol surveys); LUPA-BIO-2 (biological monitoring); LUPA-BIO-5 (worker education); LUPA-BIO-7 (construction restoration); LUPA-BIO-10 (weed management); LUPA-BIO-11 (nuisance animals and invasive species); LUPA-BIO-13 (nuisance animals and invasive species); LUPA-BIO-13 (riparian and wetland setbacks); LUPA-BIO-SVF-6 (avoidance of microphyll woodland); LUPA-BIO-COMP-1 and LUPA-VPL-BIO-COMP-1

(compensatory mitigation). (EIR pp. 3.5-94 to 3.5-101).

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Mitigation Measures:

MM BIO-1 (Biological Monitoring) Full text under Biological Resources.

MM BIO-2 (Worker Environmental Awareness Training) Full text under Biological Resources.

MM BIO-3 (Minimization of Vegetation and Habitat Impacts) Full text under Biological Resources.

MM BIO-4 (Integrated Weed Management Plan) Full text under Biological Resources. MM BIO-14 (Streambed and Watershed Protection) Full text under Biological Resources.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. CMAs specifically applicable under Impact BIO-5 are detailed at FEIR pp. 3.5-100 through 3.5-107.

Impact: Local Policies and Ordinances (BIO-6)

Threshold: The proposed project would not conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.

Findings of Fact, Less Than Significant with Mitigation Measures:

The Project is located primarily on federal land that is not subject to local policies and ordinances.

Riverside County policies encourage permanent preservation of important open space lands, protection of environmental resources through compliance with the Multipurpose Open Space Element of the General Plan, , cooperation with resource agencies for the voluntary protection or restoration of significant habitats, and preservation of multi-species habitat resources. The Desert Center Area plan encourages the preservation of open space and calls

for new development to conform with Desert Tortoise Critical Habitat designation requirements. The BLM Desert Renewable Energy Conservation Project (DRECP) requires compliance with Conservation Management Actions (CMAs) on BLM lands in the DRECP area to reduce effects of development on sensitive resources.

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The solar facilities and gen-tie lines would impact biological resources protected by the General Plan provisions and the DRECP, including special-status plants and animals, sensitive habitats, and waters of the State, as described under Impacts BIO-1 through BIO-5. With implementation of the mitigation measures and DRECP CMAs identified in the FEIR's analysis of impacts to biological resources, the Project would be consistent with the County's General Plan and Desert Center Area Plan, and the DRECP. (EIR p. 3.5-110 to 3.5-113).

Mitigation Measures:

MM BIO-1 (Biological Monitoring) Full text under Biological Resources.

MM BIO-2 (Worker Environmental Awareness Training) Full text under Biological Resources.

MM BIO-3 (Minimization of Vegetation and Habitat Impacts) Full text under Biological Resources.

MM BIO-4 (Integrated Weed Management Plan) Full text under Biological Resources. MM BIO-5 (Vegetation Resources Management Plan) Full text under Biological Resources.

MM BIO-6 (Wildlife Protection) Full text under Biological Resources.

MM BIO-7 (Desert Tortoise Protection) Full text under Biological Resources.

MM BIO-8 (Bird and Bat Conservation Strategy) Full text under Biological Resources.

MM BIO-9 (Nesting Bird Management Plan) Full text under Biological Resources.

MM BIO-10 (Gen-tie lines) Full text under Biological Resources.

MM BIO-11 (Burrowing Owl Avoidance and Relocation) Full text under Biological Resources.

	MM BIO-12 (Desert Kit Fox and American Badger Relocation) Full text under
	Biological Resources.
	MM BIO-13 (Wildlife Protection and Relocation Plan) Full text under Biological
	Resources. MM BIO-14 (Streambed and Watershed Protection) Full text under Biological
	Resources.
	DRECP CMAs:
<i>x</i>	Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an
	explanation of their applicability, and demonstration of compliance with the CMA. CMAs
	specifically applicable under Impact BIO-6 are detailed at FEIR pp. 3.5-112 through -113.
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D.	Cultural Resources and Tribal Cultural Resources
	Impact: Historical or Archaeological Sites (CUL-1)
	Threshold: The proposed project would not cause substantial adverse change in the
	significance of a historical resource as defined in California Code of Regulations, Section
	15064.5, with implementation of mitigation measures.
	Findings of Fact, Less Than Significant with Mitigation Measures:
	Direct Effects. There are no known CRHR-eligible historical resources (i.e., historic built-
	environment resources) in the Project's direct impact area for construction, operations,
	maintenance, and decommissioning. Therefore, the Project would not alter or destroy a
	historical resource. The Project site has the potential to contain previously unknown
	archaeological deposits that may underlie the ground surface. Should buried archaeological
	deposits be uncovered during project implementation, and should such resources qualify as
	historical resources under CEQA, they could be subject to direct impacts as a result of
	Project construction. Direct effects to any newly identified resources would be addressed by
	the implementation of Mitigation Measures (MM) CUL-1 through MM CUL-6, which
	would reduce these impacts to less-than-significant levels by requiring cultural resources
	training for construction workers, archaeological monitoring during construction, and

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appropriate treatment of unearthed archaeological resources during construction.

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Indirect Effects. One CRHR-eligible historical resource, SR-177/Rice Road (P-33-025150; also recorded as P-33-023788/CA-RIV-11683), lies adjacent to the Project in the indirect impact area. The historic roadway has been determined eligible for inclusion in the CRHR under Criterion 1, 3, and 4. The Project would be clearly visible from this historical resource. However, the visual changes would be in kind with the current nature and scale of existing visible developments. Visual impacts to the setting would be addressed by DRECP CMAs and the following measures: Mitigation Measures AES-1 and AES-2, which would employ design elements that reduce the visual contrast to characteristics of the landscape. With implementation of these mitigation measures, the proposed Project would not compromise the integrity of the resource or materially alter in an adverse manner the characteristics of the resource that convey its historical significance and justify its eligibility for inclusion in the CRHR. As such, SR-177/Rice Road is not subject to significant indirect impacts from the construction, operation, maintenance, or the decommissioning of the solar and BESS facility and gen-tie line. **(EIR pp. 3.6-45 and 3.6-46)**.

With implementation of mitigation measures on private land and CMAs on BLM land, impacts would be less than significant.

Mitigation Measures:

MM AES-1 (Surface Treatment of Project Structures and Buildings) Full text under Aesthetic Resources.

MM AES-2 (Project Design) Full text under Aesthetic Resources.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA.

Impact: Archaeological Resources (CUL-2)

Threshold: The proposed project would not cause a substantial adverse change in the significance of an archaeological resource, pursuant to California Code of Regulations, Section 15064.5. with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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Direct Effects. There are 3 known CRHR-eligible archaeological resources in the Project's direct impact area. The entirety of the Project area lies within the boundaries of two CRHReligible historic districts (PTNCL and DTCCL). No PTNCL trail segments have been documented or known to exist within the Project area of direct im-pacts. No character defining features of the PTNCL have been documented or are known to exist with the Project area of direct impacts. Prehistoric archaeological remains identified in the Project's direct impact area would be associated with the PTNCL if they were trail-associated sites or features. The prehistoric remains identified include isolated lithics and ceramics, and sparse lithic scatters that are not indicative of projectile point or diagnostic tool manufacture. While lithic and ceramic remains broadly relate to PTNCL themes surrounding resource procurement and manufacture, these resource types are ubiquitous throughout the Chuckwalla Valley. The prehistoric sites and isolates located within the Project's direct impact area are not associated with any character defining archaeological resources such as petroglyphs, pot drops, or webs of intersecting trails (CEC 2014). The archaeological resources are not individually CRHR-eligible and do not contribute to the historical significance of the PTNCL. Due to the widespread occurrences of the archaeological resource types and because of their lack of association with character defining features of the PTNCL, removal of these sites and isolates would not alter the PTNCL's ability to convey its historical significance and would not constitute an adverse impact to the PTNCHL. No PTNCL trail segments have been documented or known to exist within the Project area of direct im-pacts. No character defining features of the PTNCL have been documented or are known to exist with the Project area of direct impacts. Prehistoric archaeological remains identified in the Project's direct impact area would be associated with the PTNCL if they were trail-associated sites or features. The prehistoric remains identified include isolated

lithics and ceramics, and sparse lithic scatters that are not indicative of projectile point or diagnostic tool manufacture. While lithic and ceramic remains broadly relate to PTNCL themes surrounding resource procurement and manufacture, these resource types are ubiquitous throughout the Chuckwalla Valley. The prehistoric sites and isolates located within the Project's direct impact area are not associated with any character defining archaeological resources such as petroglyphs, pot drops, or webs of intersecting trails (CEC 2014). The archaeological resources are not individually CRHR-eligible and do not contribute to the historical significance of the PTNCL. Due to the widespread occurrences of the archaeological resource types and because of their lack of association with character defining features of the PTNCL, removal of these sites and isolates would not alter the PTNCL's ability to convey its historical significance and would not constitute an adverse impact to the PTNCL.

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The Project site has the potential to contain previously unknown archaeological deposits that may underlie the ground surface. Should buried archaeological deposits be uncovered during project implementation, and should such resources qualify as historical resources under CEQA, they could be subject to significant impacts. Direct effects to any newly identified resources would be addressed by the implementation of Mitigation Measures (MM) CUL-1 through MM CUL-6 and DRECP CMAs, which would reduce these impacts to less-than-significant levels.

Indirect Effects. Portions of the PTNCL, DTCCL, and P-33-023675 are located within the Project's indirect impact area. The Project would be a prominent element on the landscape and would be clearly visible from these resources. However, the visual changes would be in kind with the current nature and scale of existing visible developments. Further, the PTNCL is primarily associated with destinations, trails, and trail-associated sites or features that relate to travel, trade, ritual, and resource exploitation, particularly the collection of stone tool and ground stone raw materials. The historical significance of those characteristics primarily relates to travelers going to or from a destination and is linear in nature. The closest documented constituents in clear association with the PTNCL lie 5 meters south of the

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Project gen-tie, outside the area of direct impacts, and include rock rings, rock cairns, and cleared circles. The Project elements closest to them (namely, the gen-tie line) would be in kind with existing infrastructure and, thus, views of the Project from these locations would not affect their historical significance or the historical significance of use associated with the PTNCL beyond the current conditions. There are no other documented character defining features associated with the PTNCL near the Project site which would be adversely impacted by views of the Project. Visual impacts to the setting would be addressed by DRECP CMAs and the following mea-sures: Miti-gation Measures AES-1 and AES-2, which would employ design elements that reduce the visual contrast to characteristics of the landscape. Therefore, the proposed Project would not compromise the integrity of the resources or materially alter in an adverse manner any characteristics of the resources that convey their historical significance. As such, these archaeological resources would not be subject to significant indirect impacts from the construction, operation, maintenance, or the decommissioning of the BESS and solar facility and gen-tie line. With implementation of mitigation measures on private land and CMAs on BLM land, impacts would be less than significant. (EIR p. 3.6-46 and 3.6-47).

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Mitigation Measures:

MM AES-1 (Surface Treatment of Project Structures and Buildings) Full text under Aesthetic Resources.

MM AES-2 (Project Design) Full text under Aesthetic Resources.

MM CUL-1 (Project Archaeologist and Cultural Resource Monitoring Plan) Prior to issuance of gra-ding permits: The applicant/developer shall provide evidence to the County of Riverside Planning Department that a County certified professional archaeologist (Project Archae-ologist) has been contracted to implement a Cultural Resource Monitoring. Program (CRMP). A Cultural Resource Monitoring Plan shall be developed that addresses the details of all activities and provides procedures that must be followed in order to reduce the impacts to cultural and historic resources to a level that is less than significant as well as address

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potential impacts to undiscovered buried archaeological resources associated with this project. A fully executed copy of the contract and a wet-signed copy of the Monitoring Plan shall be provided to the County Archaeologist to ensure compliance with this condition of approval.

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Working directly under the Project Archaeologist, an adequate number of qualified Archae-o--logical Monitors shall be present to ensure that all earth moving activities are observed and shall be on-site during all grading activities for areas to be monitored including off-site improvements. Inspections will vary based on the rate of excavation, the materials excavated, and the presence and abundance of artifacts and features. The frequency and location of inspections will be determined by the Project Archaeologist.

MM CUL-2 (Develop and Implement Cultural Resources Environmental Awareness Training) Prior to issuance of a Notice to Proceed by the County and for the duration of ground disturbance (as defined in MM TCR-1), the Applicant shall provide Worker Environmental Awareness Program (WEAP) training to all workers prior to or on their first day of employment at the Project site. The training shall be prepared by the Cultural Resources Specialist (CRS), may be conducted by any member of the archaeological team, and may be presented in the form of an annotated and narrated digital slide show. Tribal representatives will be given the opportunity to participate in the WEAP training. The training shall be prepared in consultation with culturally affiliated Native Americans to incorporate the tribal know-ledge and perspectives from these Native American groups into the presentation. The CRS shall be available (by tele-phone or in person) to answer questions posed by employees. The training may be discontinued when ground disturbance is completed or suspended but must be resumed if ground disturbance resumes. Training shall include the following:

- A discussion of applicable laws and penalties under the law
- Samples or visuals of artifacts that might be found in the Project vicinity.
- A brief review of the cultural sensitivity of the Project and the surrounding

area

• A discussion of what such artifacts may look like when partially buried, or wholly buried and then freshly exposed.

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• A discussion of what prehistoric and historical archaeological deposits look like at the surface and when exposed during construction, and the range of variation in the appearance of such deposits.

• Instruction that only the CRS, alternate CRS, and supervisory cultural resource field staff have the authority to halt ground disturbance in the area of a discovery to an extent sufficient to ensure that the resource is protected from further impacts, as determined by the CRS.

• Instruction that employees are to halt work on their own in the vicinity of a potential cultural resources discovery and shall contact their supervisor and the CRS or supervisory cultural resource field staff, and that redirection of work would be determined by the construction supervisor and the CRS.

• An informational brochure that identifies reporting procedures in the event of a discovery.

• An acknowledgment form signed by each worker indicating that they have received the training.

• A sticker that shall be placed on hard hats indicating that WEAP training has been completed.

This is a mandatory training, and all construction personnel must attend prior to begin-ning work on the Project site. A copy of the sign-in sheet shall be kept ensuring compliance with this measure. No ground disturbance shall occur prior to implementation of the WEAP training unless such activities are specifically approved by the County.

MM CUL-3 (Archaeological Monitoring) A qualified lead archaeological monitor that meets the Secretary of the Interior's Professional Qualifications Standards (as defined in Title 36 Code of Federal Regulations Part 61), shall be present for initial grading activities

in undis-turbed soil. If additional archaeological monitors are needed, they do not need to have the same SOI qualifications but may work under the supervision of the lead archaeo-lo-gical monitor; in such cases the lead archaeological monitor must be on site. Any additional archaeological monitors will meet the qualifications of a bachelor's degree in anthro-pology/archaeology or completion of an archaeological field school and two or more years of archaeological project experience. Daily monitoring forms will be completed by the archaeological monitor(s) and the CRS will be responsible for retaining and/or editing them. The lead archaeological monitor will have the authority to increase or decrease the monitoring effort should the monitoring results indicate that a change is warranted.

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MM CUL-4 (Unanticipated Resources) The developer/permit holder or any successor in interest shall comply with the following for the life of this permit. If during ground disturbance activi-ties, unanticipated cultural resources* are discovered, the following procedures shall be followed:

All ground disturbance activities within 100 feet of the discovered cultural resource shall be halted and the Project archaeologist shall call the County Archaeologist immediately upon discovery of the cultural resource. A meeting shall be convened between the developer, the project archaeologist,** the Native American tribal representative, and the County Archaeologist to discuss the significance of the find. At the meeting with the aforementioned parties, a decision is to be made, with the concurrence of the County Archaeologist, as to the appropriate treatment (documentation, recovery, avoidance, etc.) for the cultural resource. Resource evaluations shall be limited to nondestructive analysis.

Further ground disturbance shall not resume within the area of the discovery until the appropriate treatment has been accomplished.

* A cultural resource site is defined, for this condition, as being a feature and/or three or more artifacts in close association with each other.

** If not already employed by the project developer, a County approved archaeologist shall be employed by the project developer to assess the significance of the cultural resource, attend the meeting described above, and continue monitoring of all future site grading activities as necessary.

MM CUL-5 (Treatment of Human Remains) If human remains are found on this site, the developer/permit holder or any successor in interest shall comply with State Health and Safety Code Section 7050.5.

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MM CUL-6 (Phase IV Monitoring Report) Prior to Grading Permit Final Inspection, a Phase IV Cultural Resources Monitoring Report shall be submitted that complies with the Riverside County Planning Department's requirements for such reports for all ground disturbing activities associated with this grading permit. The report shall follow the County of Riverside Planning Department Cultural Resources (Archaeological) Investigations Standard Scopes of Work posted on the TLMA website. The report shall include results of any feature relocation or residue analysis required as well as evidence of the required cultural sensitivity training for the construction staff held during the required pre-grade meeting and evidence that any artifacts have been treated in accordance to procedures stipulated in the Cultural Resources Monitoring Plan.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA.

Impact: Archaeological Resources (CUL-3)

Threshold: The proposed project would not cause an adverse change in the significance of a unique archaeological resource pursuant to California Code of Regulations, Section 15064.5. with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

No unique archaeological resources have been identified to date in the Project's direct or indirect impact areas. Therefore, the Project would not cause an adverse change in the significance of any known unique archaeological resources. Should a unique archaeological resource be identified during construction, operations, maintenance, and decommissioning

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1	of the Project, direct effects to any newly identified unique archaeological resources would	
2	be addressed by the implementation of Mitigation Measures CUL-1 through MM CUL-6	
3	and DRECP CMAs, which would reduce potential impacts to a less-than-significant level.	
4	(EIR p. 3.6-34).	
5	Mitigation Measures:	· •
6	MM CUL-1 (Project Archaeologist and Cultural Resource Monitoring Plan) Full text	
7	under Cultural and Tribal Cultural Resources.	
8	MM CUL-2 (Develop and Implement Cultural Resources Environmental Awareness	
9	Training) Full text under Cultural and Tribal Cultural Resources.	
10	MM CUL-3 (Archaeological Monitoring) Full text under Cultural and Tribal Cultural	
11	Resources.	
12	MM CUL-4 (Unanticipated Resources) Full text under Cultural and Tribal Cultural	
13	Resources.	
14	MM CUL-5 (Treatment of Human Remains) Full text under Cultural and Tribal	
15	Cultural Resources.	
16	MM CUL-6 (Phase IV Monitoring Report) Full text under Cultural and Tribal	
-17	Cultural Resources.	-
18	DRECP CMAs:	
19	Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an	
20	explanation of their applicability, and demonstration of compliance with the CMA.	
21	Impact: Human Remains (CUL-4)	
22	Threshold: The proposed project would not disturb any human remains, including those	
23	interred outside of dedicated cemeteries with implementation of mitigation measures.	
24	Findings of Fact, Less Than Significant with Mitigation Measures:	
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	A review of the archaeological record searches and results of recent Phase I survey did not	
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indirectly) during Project construction and decommissioning. If human remains or related resources are discovered, such resources shall be treated in accordance with state and local regulations and guidelines that govern the disclosure, recovery, relocation, and preservation of human remains (14 CCR 15064.5[e]). With incorporation of MM CUL-5 and compliance with Health and Safety Code section 7050.5, any potential impacts on human remains would be less than significant. (EIR p. 3.6-48).

Mitigation Measures:

MM CUL-5 (Treatment of Human Remains) Full text under Cultural and Tribal Cultural Resources.

Impact: Tribal Cultural Resources (TCR-1)

Threshold: The proposed project would not cause adverse change in the significance of a Tribal Cultural Resource determined by the Lead Agency with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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The direct and indirect impacts of solar and BESS facility and gen-tie line construction, operations, maintenance, and decommissioning, could potentially cause disturbance or damage to tribal cultural resources. However, impacts are not anticipated because no tribal cultural resources have been found in the Project area or identified through tribal consultation that are listed in the CRHR or have been determined to be eligible for such listed nor is there evidence on which the County could in its discretion determine that there are tribal cultural resources impacted by the Project. Should buried archaeological deposits be uncovered during project implementation, and should such resources qualify as tribal cultural resources under CEQA, they could be subject to significant impacts under criterion TCR-1 (adverse change in the significance of a tribal cultural resources during tribal consultation). Direct effects to any newly identified resources would be addressed by the implementation of Mitigation Measures (MM) CUL-1 through MM CUL-6, MM TCR-1, and MM TCR-2 and DRECP CMAs, which would reduce these impacts to less-than-

significant levels. (EIR p. 3.6-49).

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Applicant Proposed Measures:

APM CULT-1 (Native American Monitoring) The Applicant will enter into an agreement with interested culturally-affiliated and/or consulting tribe(s) to employ at least one Native American Monitor per archaeological monitor. A Native American monitor will be called immediately upon discovery of a cultural resource if a Native American monitor is not already present. In conjunction with the County- and BLM-approved archaeologist(s), the Native American Monitor will be invited to monitor all initial ground disturbing activities and excavation of each portion of the Project site including clearing, grubbing, tree removals, grading and trenching, as outlined in the Project's Cultural Resource Monitoring Plan (see Mitigation Measures [MMs] CUL-1 and TCR-1), and attend meeting(s) to discuss the significance of unanticipated find(s) and appropriate treatment of unanticipated resources. The Applicant will immediately alert interested culturally-affiliated and consulting tribes in the event of an unanticipated discovery. "Native American Monitor" means an individual who is presented as a representative of a tribal government for one of the culturally-affiliated or consulting tribes for the Easley Project and who has received specialized training approved by that tribal government to serve as a monitor.

Mitigation Measures:

MM CUL-1 (Project Archaeologist and Cultural Resource Monitoring Plan) Full text under Cultural and Tribal Cultural Resources.

MM CUL-2 (Develop and Implement Cultural Resources Environmental Awareness Training) Full text under Cultural and Tribal Cultural Resources.

MM CUL-3 (Archaeological Monitoring) Full text under Cultural and Tribal Cultural Resources.

MM CUL-4 (Unanticipated Resources) Full text under Cultural and Tribal Cultural Resources.

MM CUL-5 (Treatment of Human Remains) Full text under Cultural and Tribal Cultural Resources.

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MM CUL-6 (Phase IV Monitoring Report) Full text under Cultural and Tribal Cultural Resources.

MM TCR-1 (Native American Monitor) Prior to the issuance of grading permits, the developer/permit applicant shall enter into an agreement with the consulting tribe(s) for a Native American Monitor. The Native American Monitor(s) shall be on-site during all initial ground distur-bing activities and excavation of each portion of the Project site including clearing, grubbing, tree removals, grading and trenching. In conjunction with the Archaeological Monitor(s), the Native American Monitor(s) shall have the authority to temporarily divert, redirect or halt the ground disturbance activities to allow identification, evaluation, and potential recovery of cultural resources. The developer/permit applicant shall submit- a fully executed copy of the agreement to the County Archaeologist to ensure compliance with this condition of approval. Upon verification, the Archaeologist shall clear this con-dition. This agreement shall not -modify- any condition of approval or mitiga-tion measure.

MM TCR-2 (Artifact Disposition) Prior to Grading Permit Final Inspection,, the landowner(s) shall relinquish ownership of all cultural resources that are unearthed on the Project property during any ground-disturbing activities, including previous investigations and/or Phase III data recovery.

Historic Resources – all historic archaeological materials recovered during the archaeolo-gical investigations (this includes collections made during an earlier project, such as testing of archaeological sites that took place years ago), shall be curated at the Western Science Center, a Riverside County curation facility that meets State Resources Depart-ment Office of Historic Preservation Guidelines for the Curation of Archaeological Resources ensuring access and use pursuant to the Guidelines.

Prehistoric Resources- One of the following treatments shall be applied:

• Reburial of the resources on the Project property. The measures for reburial

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shall include, at least, the following: Measures to protect the reburial area from any future impacts. Reburial shall not occur until all required cataloguing, analysis and studies have been completed on the cultural resources, with an exception that sacred items, burial goods and Native American human remains are excluded. Any reburial pro-cesses shall be culturally appropriate. Listing of contents and location of the reburial shall be included in the confidential Phase IV Report. The Phase IV Report shall be filed with the County under a confidential cover and not subject to a Public Records Request.

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• If reburial is not agreed upon by the Consulting Tribes, then the resources shall be curated at a culturally appropriate manner at the Western Science Center, a River-side County curation facility that meets State Resources Department Office of Historic Preservation Guidelines for the Curation of Archaeological Resources ensuring access and use pursuant to the Guidelines. The collection and associated records shall be transferred, including title, and are to be accompanied by payment of the fees necessary for permanent curation. Evidence of curation in the form of a letter from the curation facility stating that subject archaeological materials have been received and that all fees have been paid, shall be provided by the landowner to the County. There shall be no destructive or invasive testing on sacred items, burial goods and Native American human remains.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. *Impact: Tribal Cultural Resources (TCR-2)*

Threshold: The proposed project would not cause adverse change in the significance of a Tribal Cultural Resource eligible for or listed on the CRHR or in a local register of historical resources as defined in Public Resources Code section 5020.1 (k). with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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No PTNCL trail segments have been docu-mented or are known to exist within the Project area of direct impacts Additionally, no other character defining features of the PTNCL have been documented or known to exist with the Project area of direct impacts. The prehistoric archaeological resources identified on the Project site include isolated lithics and ceramics, and sparse lithic scatters. While these prehistoric archaeological resources broadly relate to the time period of the PTNCL, they are ubiquitous throughout the Chuckwalla Valley and are not associated with any destination sites or character defining features of the PTNCL. The resources are not individually CRHR-eligible and do not contribute to the significance of the PTNCL. Due to their widespread occur-rences, removal of these sites and isolates would not alter the PTNCL's ability to convey its historical significance and would not The Project would not demolish or materially constitute an adverse impact to the PTNCL alter in an adverse manner any characteristics of the PTNCL that convey its historical significance and justify its eligibility for inclusion in the CRHR. Should a tribal cultural resource be identified during construction, operations, maintenance, and decommissioning of the Project, direct effects to the newly identified resource would be addressed by the implementation of Mitigation Measures CUL-1 through MM CUL-6, MM TCR-1, and MM TCR-2 and DRECP CMAs, which would reduce potential impacts to a less-than-significant level. (EIR p. 3.6-50). **Applicant Proposed Measures:** APM CULT-1 (Native American Monitoring) Full text under Cultural and Tribal **Cultural Resources. Mitigation Measures:** MM CUL-1 (Project Archaeologist and Cultural Resource Monitoring Plan) Full text under Cultural and Tribal Cultural Resources. MM CUL-2 (Develop and Implement Cultural Resources Environmental Awareness Training) Full text under Cultural and Tribal Cultural Resources.

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MM CUL-3 (Archaeological Monitoring) Full text under Cultural and Tribal Cultural Resources.

1		MM CUL-4 (Unanticipated Resources) Full text under Cultural and Tribal Cultural
2		Resources.
3		MM CUL-5 (Treatment of Human Remains) Full text under Cultural and Tribal
4		Cultural Resources.
5	10	MM CUL-6 (Phase IV Monitoring Report) Full text under Cultural and Tribal
6		Cultural Resources.
7		MM TCR-1 (Native American Monitor) Full text under Cultural and Tribal Cultural
8		Resources.
9		MM TCR-2 (Artifact Disposition) Full text under Cultural and Tribal Cultural
10		Resources.
11		DRECP CMAs:
12		Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an
13		explanation of their applicability, and demonstration of compliance with the CMA.
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15	Е.	Geology, Soils and Mineral Resources
16		Impact: Soil Erosion (GEO-3)
17		Threshold: The proposed project would not result in substantial soil erosion or the loss of
18		topsoil with implementation of mitigation measures.
19		Findings of Fact, Less Than Significant with Mitigation Measures:
20		Construction would require ground disturbance for construction of the solar arrays,
21		substation, O&M building, septic system, BESS foundations, access roads, gen-tie line
22		towers, and other features. These activities would expose soil and increase the potential for
23		wind and water erosion and also could disturb desert pavement, resulting in the ecological
24		loss of this soil characteristic. Disturbed soils and desert pavement can cause or accelerate
25		erosion, the generation of fugitive dust, and increase sediment in stormwater runoff to
26		ephemeral streams and playa lakes, causing increased turbidity and sedimentation.
27		The increase in erosion due to Project construction would result in a significant impact
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without mitigation. Implementation of MM AQ-1 (Fugitive Dust Control Plan) and the Applicant-prepared Dust Control Plan, identifies Best Available Control Measures (BACMs) implemented during construction to reduce fugitive dust emissions, and identifies contingency control measures implemented if the BACMs are not adequately controlling fugitive dust. Implementation of MM HWQ-1 Drainage Erosion and Sedimentation Control Plan [DESCP]) and MM HWQ-5 (Project Drainage Plan) would ensure proper protection of water quality and soil resources, and ensure that erosion does not leave the site and impact adjacent landowners or nearby water features, along with identifying all monitoring and maintenance activities. Implementation of MM BIO-1 (Biological Monitoring), MM BIO-3 (Minimization of Vegetation and Habitat Impacts), and MM BIO-5 (Vegetation Resources Management Plan) would reduce impacts related to soil erosion to less than significant. Additionally, the Applicant has committed to preparing a SWPPP (or equivalent document) that would include BPMs to reduce potential erosion.

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Soils in desert environments and vegetation are involved in carbon sequestration, so the disturbance of soils and removal of vegetation during project Construction would result in the release of CO2 into the atmosphere. However, implementation of MM BIO-3 and MM BIO-5, would require minimization of soil and vegetation disturbance, and would require re-vegetation of disturbed areas. Additionally, areas of important hydrologic functions and areas of dry desert wash woodland would be avoided by the Project design. Due to Project design and implementation of the mitigation measure, impacts related to damage to carbon sequestrating materials and release of CO2 into the atmosphere would be less than significant.

Operation and maintenance activities would include daily operations and routine maintenance activities, such as PV panel washing, up to four times per year, to optimize output. MM AQ-1 (Fugitive Dust Control Plan) restricts vehicular access during O&M to established unpaved travel paths and ensure the paths remain stabilized and MM HWQ-5 (Project Drainage Plan) requires a Project Drainage Plan. With implementation of the

mitigation measures, impacts related to soil erosion during Project operation and maintenance would be less than significant.

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The Project does not include any sand transport or migration zones so would not result in a loss of sand transport from development of a solar project, and large portions of the Project area along the washes would not be developed to avoid direct impacts to desert dry wash woodland and the Project would be designed to allow water to flow through the Project site. Therefore, the Project would continue to allow sand and stabilizing moisture to reach their destination. Impacts would be less than significant.

With implementation of mitigation measures on private land and CMAs on BLM land, impacts would be less than significant.

(EIR p. 3.8-15 to 3.8-17).

Mitigation Measures:

MM AQ-1 (Fugitive Dust Control Plan) Full text under Air Quality.

MM BIO-1 (Biological Monitoring) Full text under Biological Resources.

MM BIO-2 (Minimization of Vegetation and Habitat Plans) Full text under Biological Resources.

MM BIO-5 (Vegetation Resources Management Plan) Full text under Biological Resources.

MM HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) Full text under Hydrology and Water Quality.

MM HWQ- (Project Drainage Plan) Full text under Hydrology and Water Quality.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA.

F. Hazards and Hazardous Materials

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Impact: Hazardous Materials (HAZ-1)

Threshold: The proposed project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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Construction of the Project would involve the use of small amounts of hazardous materials. The use, storage, transport, and disposal of hazardous materials used in construction of the facility would be carried out in accordance with current applicable regulations and the Project-specific HMMP. Implementation of these procedures and plans and compliance with applicable local, state, and federal regulations would minimize the risk of adverse effects from use, disposal, and transport of hazardous materials to less-than-significant levels. At the end of the Project's useful life, solar panels would be decommissioned and dismantled per an agency-approved Closure and Decommissioning Plan. Project decommissioning

would be designed to optimize recycling or reuse of panels, as circumstances allow and in compliance with all local, State, and federal laws and regulations in effect at the time of decommissioning.

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During construction, herbicides may be applied to control weed growth, and would be performed in accordance with an approved Weed Management Plan. Use of herbicides would occur in accordance with all recommended application procedures as identified on product labels as well as under the direct supervision of a licensed Certified Pesticide Applicator. The proposed Project would not contain a residential or commercial component that would expose people to potential pesticides or herbicides; as a result, application of herbicides during construction would have a less than significant impact.

The Project site is within the historic World War II DTC/C AMA training camp/maneuver area where military exercises with tanks and troops were conducted. During construction, maintenance, and closure and decommissioning activities associated with the proposed Project, ground disturbance could unearth unexploded World War II-era munitions (UXO

and MEC). Implementation of the project's Hazardous Materials Management Plan and MM HAZ-1 (UXO Identification, Training and Reporting Plan) would ensure compliance with OSHA requirements related to unexploded ordnance and munition, formalize UXO training, investigation, removal, and disposal to ensure that potential UXO impacts would be less than significant.

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During operation and maintenance the small quantities of hazardous materials used would be transported, stored, and disposed of as required by the HMMP. Preparation and compliance with the required SPCC and HMBP, if necessary, implementation of the HMMP, and compliance with applicable state and federal regulations would minimize the risk of damage or injury from use, disposal, and transport of hazardous materials ensure that impacts remain less than significant during the Project's operation and maintenance.

With implementation of mitigation measures and compliance with OSHA requirements related to unexploded ordnance and munitions, impacts would be less than significant. (EIR pp. 3.10-16 to 3.10-18).

Mitigation Measures:

MM HAZ-1 (UXO Identification, Training and Reporting Plan) Where ground disturbance work is involved, contractor(s) should be OSHA HAZWOPER-trained in accordance with standard 29CFR1910.120 and hold a current certification. The Applicant shall prepare a UXO Identification, Training and Reporting Plan to properly train all site workers in the recognition, avoidance and reporting of military waste debris and ordnance. The Applicant shall submit the plan to the County and BLM for review and approval for their respective jurisdictions prior to the start of construction. The plan shall contain, at a minimum, the following:

 A description of the training program outline and materials, and the qualifications of the trainers;

- Identification of available trained experts that will respond to notification of discovery of any ordnance (unexploded or not); and
- Work plan to recover and remove discovered ordnance, and complete additional field screening, possibly including geophysical surveys to investigate adjacent areas for surface, near surface or buried ordnance in all proposed land disturbance areas.

Impact: Hazardous Materials and Risk of Upset (HAZ-2)

7-9

Threshold: The proposed project would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

The use of hazardous materials, such as fuels and greases to fuel and service construction equipment, could result in the accidental release of these materials if not managed appropriately. As there would be regulated hazardous materials onsite, storage procedures would be dictated by a Hazardous Materials Management Plan. Additionally, spill prevention measures and secondary containment would be implemented as part of the Project where warranted. A Storm water Pollution Prevention Plan (SWPPP) or SWPPP equivalent document would be prepared by a qualified engineer or erosion control specialist and would be implemented before and during construction. The SWPPP would be designed to reduce potential impacts related to erosion and surface water quality during construction activities and throughout the life of the Project. It would include Project information and best management practices (BMP). The BMPs would include storm water runoff quality control measures, concrete waste management, storm water detention, watering for dust control, and construction of perimeter silt fences, as needed.

There is a potential that construction activi-ties such as grading, excavation, and construction vehicle traffic, could loosen and stir up soil containing *Coccidioides* fungus spores, exposing

workers and the public to contracting Valley Fever. Construction activities for the Project would be subject to stringent dust control requirements (including SCAQMD Rules 402 and 403). Implementation of DRECP CMAS and Mitigation Measures AQ-1 (Fugitive Dust Control Plan) and HAZ-2, (Worker Environmental Awareness Program) would reduce the potential for workers and the public to contract Valley Fever due to exposure to substantial concentrations of dust which may contain Coccidioides fungus spores to a less-than-significant level.

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If regulatory thresholds are exceeded for storage of hazardous materials during Project operation, a SPCC would be prepared and implemented, as required by the SPPC Rule. BMPs would be employed in the use and storage of all hazardous materials within the Project, including the use of containment systems in appropriate locations. The Project would include operation of a BESS which could cause hazards such as fire, gaseous build up, explosion and release of hazardous materials. However, the BESS would be designed, packaged, constructed, and operated in accordance with applicable industry best practices and regulatory requirements, including, but not limited to, National Fire Protection Association 855 (Standard for the Installation of Stationary Energy Storage Systems) and Section 1206 of the California Fire Code and if applicable, certified to UL 9540. Additionally, implementation of DRECP CMAs, the project's Hazardous Materials Management Plan, and MM FIRE-1 (Fire Safety) would require components specific to fire response and safety at the BESS be included in the proposed Fire Management and Prevention Plan for the Project, which would reduce the impact to a less-than-significant level. (**EIR pp. 3.10-18 to -20.**).

With implementation of mitigation measures on private land and CMAs on BLM land, impacts would be less than significant.

Mitigation Measures:

MM AQ-1 (Fugitive Dust Control Plan) Full text under Air Quality.

MM FIRE-1 (Fire Safety) Full text under Wildfire.

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MM HAZ-2 (Worker Environmental Awareness Program) The WEAP prepared for the Project shall include a personal protective equipment (PPE) program, an Emergency Action Plan (EAP), and an Injury and Illness Prevention Program (IIPP) to address health and safety issues associated with normal and unusual (emergency) conditions. It will be reviewed and approved by the County and BLM prior to construction. Construction-related safety programs and procedures shall include a respiratory protection program, among other things. Construction Plan documents shall relate at least to the following:

- Environmental health and safety training (including, but not limited, to training on the hazards of Valley Fever, including the symptoms, proper work procedures, how to use PPE, and informing supervisor of suspected symptoms of work-related Valley Fever)
- Site security measures
- Site first aid training
- Site fire protection and extinguisher maintenance, guidance, and documentation
- Furnishing and servicing of sanitary facilities records
- Trash collection and disposal
- Disposal of hazardous materials and waste guidance in accordance with local, state, and federal regulations

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA.

Impact: Hazardous Materials Sites (HAZ-3)

Threshold: The proposed project would not be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would create a significant hazard to the public or the environment with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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The Project site is located within the WWII DTC/C AMA where maneuvers included weapons training, firing exercises, and laying out and removing landmine fields. Therefore, there is a potential to encounter UXO, MEC, or MD during construction activities. Implementation of the Project's Hazardous Materials Management Plan and Mitigation Measure HAZ-1 (UXO Identification, Training, and Reporting Plan) would ensure compliance with OSHA requirements related to unexploded ordnance and munitions and would require UXO training, investigation, removal, and disposal to ensure that potential UXO impacts would be less than significant. No known hazardous material or environmentally contaminated sites have been identified at the site. However, there is current and historical agricultural use on properties immediately adjacent to the Project site, and therefore, pesticides used at these adjacent sites may have spread to the nearby Project areas. Pesticide-contaminated soil may be encountered during Project ground-disturbing activities. Additionally, petroleum hydrocarbon contaminated soil may be encountered near current and former fuel ASTs. Implementation of mitigation measures HAZ-2 (Worker Environmental Awareness Program) and HAZ-3 (Soil Management Plan) would ensure that workers and the public are not adversely affected by pesticide or petroleum hydrocarbon contaminated soil.

Operation and maintenance activities would not involve significant ground disturbance or excavation activities and would therefore have no potential to encounter UXO, MEC, or MD nor pesticide contaminated soils. (EIR pp. 3.10-20 to -21.). With implementation of mitigation measures on private land and CMAs on BLM land, impacts would be less than significant.

Mitigation Measures:

MM HAZ-1 (UXO Identification, Training, and Reporting Plan) Full text under Hazards and Hazardous Materials.

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MM HAZ-2 (Worker Environmental Awareness Program) Full text under Hazards and Hazardous Materials.

MM HAZ-3 (Soil Management Plan) Prior to issuance of demolition or grading permits, the Applicant shall prepare a Soil Management Plan (SMP) to guide activities during construction that will disturb potentially pesticide contaminated soils to ensure that potentially contaminated soils are identified, characterized, removed, and disposed of properly. The SMP shall be submitted to the County and BLM for approval prior to Project construction. The purpose of the SMP is to establish appropriate management practices for handling impacted soil or other materials that may be encountered during construction activities.

The SMP shall be implemented during Project construction and shall include, but shall not be limited to, the following components:

- Description of soil testing, which shall include (but not be limited to) the collection
 of shallow soil samples and analyses for pesticides to verify presence or absence of
 unknown pesticide soil contamination. This soil profiling shall be performed prior to
 initiation of Project construction.
- Protocols for sampling of in-place soil to facilitate the profiling of the soil for appropriate off-site disposal or reuse, and for construction worker safety, dust mitigation during demolition and construction and potential exposure of contaminated soil to future users of the site prior to Project construction.

 Procedures to be undertaken in the event that contamination is identified above action levels or previously unknown contamination is discovered prior to or during Project construction.

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• Sampling and laboratory analyses of any excess soil requiring disposal at an appropriate off-site waste disposal facility.

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• Procedures and protocols for the safe storage, stockpiling, and disposal of any contaminated soils.

If contaminants are identified at concentrations exceeding applicable screening levels, the Applicant shall submit the SMP sampling results to the County DEH and BLM and obtain oversight from the appropriate regulatory agencies. Copies of the approved SMP shall be kept at the Project site.

Any contaminated soils identified by testing conducted in compliance with the SMP and found in concentrations above established thresholds shall be removed and disposed of according to California Hazardous Waste Regulations. Contaminated soil excavated from the site shall be hauled off-site and disposed of at a licensed hazardous materials disposal site.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA.

Impact: Fire Hazards (HAZ-6)

Threshold: The proposed project would not expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

During construction and decommissioning, fires could be caused by a variety of factors, including vehicle exhaust, sparks associated with grading activities, welding activities, parking on dry vegetation, and the overall temporary increase in human activity. Pursuant to the Code of Federal Regulations, Title 29, Part 1926.24 (29 Code of Federal Regulations [CFR] 1926.24), the Project operator would be responsible for the development and

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maintenance of an effective fire protection and prevention program through all phases of construction, repair, alteration, or demolition work for the solar facility, BESS, Project substation, gen-tie line, and associated components. The Project would implement the Fire Management and Prevention Plan (FMPP), which includes procedures for minimizing potential ignition, work restrictions on high fire hazard days, requirements for spark arrestors, prohibition of smoking near vegetated areas or near combustible materials, and requirements for firefighting equipment suitable for extinguishing small fires. Implementation of DRECP CMAs and Mitigation Measure FIRE-1 (Fire Safety) which provides additional required procedures and information to be included in the FMPP, and of a WEAP, as required under Mitigation Measure HAZ-2, would further reduce wildfire risks. Accordingly, construction and decommissioning of the proposed Project is not expected to expose people or structures, directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires during Project construction. Therefore, impacts would be less than significant with mitigation.

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The Project is located within both LRA and FRA areas of moderate fire severity. The Project site is not located within a high/very high fire hazard area, as determined by CAL FIRE. The solar facility would be designed and constructed to industry safety design standards (i.e., Institute of Electrical and Electronic Engineers, National Electric Code) and Riverside County Building and Safety Department requirements to reduce the risk of electrical fires at the site. Solar arrays are fire-resistant, as they are constructed largely out of steel, glass, aluminum, or components housed within steel enclosures. Wires would be buried at a minimum of 18 inches below grade, minimizing the potential for faulty wiring to ignite a fire. All electric inverters and the transformer would be constructed on concrete foundation structures or steel skids and tested prior to use to ensure safe operations and avoid fire risks. In the event of higher-than-normal temperatures (from events that could start a fire or during a fire events) units could be remotely shut down or generation curtailed remotely until corrective actions (i.e., inspections and repairs) are taken. In a wildfire situation, the panels

would be rotated and stowed in a panel-up position. Fire safety and suppression measures, such as smoke detectors and extinguishers, would be installed and available at the O&M facility.

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Implementation of DRECP CMAs and MM FIRE-1 (Fire Safety) which provides additional required procedures and information to be included in the FMPP, in addition to compliance with applicable regulations, would reduce wildfire risks to less-than-significant levels. Thermal runaway or other system failures could lead to fire or explosion of the BESS. In order to minimize hazards related to fire and explosion, the BESS would be designed and constructed per all applicable design, safety, and fires standards for the installation of energy storage systems, including, but not limited to, National Fire Protection Association 855 (Standard for the Installation of Stationary Energy Storage Systems) and Section 1207 of the 2022 California Fire Code. These standards would require installation of fire suppression systems, thermal management, ventilation, and exhaust and deflagration venting sys-tems in the BESS. A fire safety system would be provided within each on-site battery enclosure. Additionally, MM FIRE-1 would require components specific to fire response and safety at the BESS be included in the proposed Fire Management and Prevention Plan for the Project.

(EIR p. 3.10-23 to 3.10-24).

With implementation of mitigation measures on private land and CMAs on BLM land, impacts would be less than significant.

Mitigation Measures:

MM FIRE-1 (Fire Safety) Full text under Wildfire.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA.

G. Hydrology and Water Quality

Impact: Water Quality Standards and Plans (HWQ-1)

Threshold: The proposed project would not violate water quality standard or waste discharge requirements or otherwise substantially degrade surface or groundwater quality, or conflict with the implementation of a water quality control plan with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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Surface Water. Project development could result in soil erosion and lowered water quality through increased turbidity and sediment deposition into local ephemeral streams, and Accidental spills or disposal of harmful materials used during construction of the Project could wash into and pollute surface waters. Downstream beneficial uses could be adversely affected through violation of RWQCB water quality standards and objectives for suspended solids, total dissolved solids, sediment, and turbidity, or through violation of RWQCB water quality objectives for toxicity and chemical constituents. Alterations to site topography due to the site preparation would affect both RWQCB and CDFW jurisdic-tional waters of the State that traverse the Project site.

The dry nature of most of the surface streams is such that should harmful material spills occur during construction, these could easily be cleaned up prior to surface water being contaminated. Storage proce-dures for hazardous materials during construction would be dictated by the Hazardous Materials Plan (HMP) that would be prepared prior to construction. Trucks and construction vehicles would be serviced from off-site facilities. The use, storage, transport, and disposal of hazardous materials used in construction of the facility would be carried out in accordance with federal, state, and county regulations.

Development and adherence to a Stormwater Pollution Prevention Plan (SWPPP) or SWPPP-equivalent document will require best management practices to prevent and control erosion and siltation during construction, prevent, contain and mitigate accidental spills during construction, and prevent violation of water quality objectives or damaging beneficial uses identified in the water quality control plan. Construction of the Project would avoid 3/11/2025 Board Meeting

most desert dry wash woodland in accordance with BLM's CMA LUPA-BIO-RIPWET 1. Changes to streambeds classified as RWQCB and CDFW jurisdictional waters of the State would require the Applicant to obtain a LSAA from the CDFW and a waste discharge (WDR) permit from the Colorado River Basin RWQCB. The LSAA and WDR will require the Project to avoid and minimize impacts to surface waters (through conditions of approval and BMPs) and may require compensatory mitigation for impacts to waters of the State. Impacts related to surface water degradation due to alterations to waters of the State would be minimized or prevented through compliance with CDFW and RWQCB regulations and permits and implementation of Mitigation Measures (MM) BIO-3 (Minimization of Vegetation and Habitat Impacts), MM BIO-5 (Vegetation Resources Management Plan), MM BIO-14 (Streambed and Watershed Protection), MM HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]), and MM HWQ-5 (Project Drainage Plan).

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Although mass grading is not proposed, some ground disturbance is expected, and some of the solar panels and other proposed struc-tures would be placed in areas that are subject to flooding, creating a potential for erosion and sedimen-tation leading to potential water quality impacts during operations. Mitigation Measure HWQ-1 requires the development of a Drainage Erosion and Sedimentation Plan that would address and mitigate erosion impacts during construction and operations.

Decommissioning of the Project is expected to result in adverse impacts related to water resources similar to construction impacts. Work could result in potential increases in sediment loads to adjacent streams and washes and/or accidental spills of hydrocarbon fuels and greases and other materials associated with motorized equipment and construction work. However, decommissioning activities would be subject to the same state and federal water quality regulations discussed above, as well as the mitigation measures applicable during construction of the Project, which would minimize potential water quality impacts. Accordingly, impacts related to surface water quality would be less than significant with mitigation.

Groundwater. Groundwater quality impacts could occur during construction if contaminated or hazardous materials used during construction were to be released and allowed to migrate to the groundwater table. Given adherence to the Project Hazardous Materials Business Plan and the NPDES General Permit for Construction Activities, the potential for such impacts to groundwater quality are low.

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The Project would produce sanitary wastewater from the O&M building, which would be treated and disposed of at the Project using a septic disposal system. The federal (EPA), state (RWQCB) and local (Riverside County Department of Environmental Health) governments have requirements for septic system design, including requirements for percolation, vertical distance from the groundwater table, and setback from the nearest groundwater well. The use and application of septic fields is an established practice as a method of wastewater treatment. The use of a septic system within the designed system capacity is not anticipated to cause groundwater quality degradation.

DWR has categorized the CVGB as a very low priority basin under the SGMA (DWR, 2020a). Per SGMA, due to the CVGB classification as a very low priority basin, a Groundwater Sustainability Plan (GSP) is not required to be developed for the CVGB.

Groundwater modeling was completed for the project. The Project's modeled zone of influence after 2 years of Project construction pumping (500 AFY) is an approximately 4.5-mile radius cone of depression out to 0.5 feet of drawdown. Project operational and decommissioning pumping (50 AFY) for 50 years has a cumulative drawdown with an approximately 15-mile radius out to 0.5 feet of drawdown. This zone of influence also includes pumping from cumulative projects. Cumulative project pumping is not anticipated to adversely affect existing water users and water rights claimants in the CVGB due to the limited magnitude of the simulated drawdown. Based on the limited magnitude of the simulated drawdown due to Project pumping, groundwater levels would not be lowered to a level that would cause a degradation of groundwater quality that affects other beneficial uses.

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Additionally, groundwater levels would not be lowered to a level that causes pumping wells near the Project to begin to capture deeper/older groundwater within the CVGB. Deeper/older groundwater typically contains increased salts and nutrients as a result of prolonged exposure to the aquifer material (leaching of minerals from the host rock into groundwater) (USGS, 2019). In addition, there are no known point source plumes near the Project. Therefore, there are no known contaminant plumes Project pumping could potentially mobilize. As discussed for impact HWQ-2 below, the Project would not adversely impact the sustainable management of the CVGB.

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MM HWQ-1 (Drainage Erosion and Sedimentation Plan) and MM HWQ-2 (Septic System Review and Permitting) which would enable the Riverside County Department of Environmental Health to ensure that the Project is compliant with Riverside County, RWQCB, and EPA regulations and protective of water quality. Mitigation Measure HWQ 3 (Palo Verde Mesa Groundwater Basin Protection) includes the development of a Colorado River Water Supply Plan (CRWSP) to monitor groundwater extractions from the Applicant owned and/or operated on-or off-site well(s) to ensure that groundwater extractions do not go below the Colorado River Accounting Surface. HWQ-4 (Groundwater Monitoring, Reporting, and Mitigation Plan [GMRMP] would be implemented for the Project in coordination with the RWQCB and BLM to ensure that groundwater wells surrounding Project supply well(s) are not adversely affected (i.e., chronic lowering of groundwater levels and degradation of groundwater quality) by Project activities. Thus, with implementation of mitigation measures and DRECP CMAs, impacts would be less than significant. (**EIR pp. 3.11-21 and 3.11-24**).

Mitigation Measures:

MM BIO-3 (Minimization of Vegetation and Habitat Impacts) Full text under Biological Resources.

MM BIO-5 (Vegetation Resources Management Plan) Full text under Biological

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Resources.

MM BIO-14 (Streambed and Watershed Protection) Full text under Biological Resources.

MM HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]). At least

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60 days prior to site mobilization, the Applicant shall submit to the Regional Water Quality Control Board, the BLM, and Riverside County for review and approval a DESCP for managing stormwater during Project construction and operations and to prevent sediment or any other pollu-tants from moving offsite and into receiving waters. The DESCP can be included in the Stormwater Pollution Prevention Plan (SWPPP) and must ensure proper protection of water quality and soil resources, address disturbed soil stabilization treatments in the Project area for both road and non-road surfaces, and identify all methods used for tem-porary and final stabilization of inactive areas. The plan must also cover all linear Project features such as the proposed gen-tie line and any other Project component subject to disturbance. The DESCP shall contain, at a minimum, the elements presented below that outline site management activities and erosion and sediment-control Best Management Practices (BMPs) to be implemented during site mobilization, excavation, construction, and post-construction (operating) activities.

• Vicinity Map. A map(s), at a minimum scale 1 inch to 500 feet, shall be provided indi-cating the location of all Project elements with depictions of all significant geographic features including swales, storm drains, drainage concentration points and sensitive areas.

• Site Delineation. All areas subject to soil disturbance (including mowing, grubbing, gra-ding, excavation or any other soil disturbing activity) for the Project shall be delineated showing boundary lines of all construction areas and the location of all existing and proposed structures and drainage facilities.

Clearing and Grading Plans. The DESCP shall provide a delineation of all

areas to be cleared of vegetation and areas to be preserved. The plan shall provide elevations, slopes, locations, and extent of all proposed grading as shown by contours, cross sec-tions, or other means. The locations of any disposal areas, fills, or other special features shall also be shown. Existing and proposed topography shall be illustrated by tying in proposed contours with existing topography.

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• Clearing and Grading Narrative. The DESCP shall include a table with the estimated quantities of material excavated or filled for the site and all Project elements, whether such excavation or fill is temporary or permanent, and the amount of such material to be imported or exported. All areas subject to soil disturbance shall be included in the table.

• Erosion Control. The plan shall address treatments to be used on exposed soil during construction and operation including specifically identifying all chemical-based dust palliatives, soil bonding, and weighting agents appropriate for use that would not cause adverse effects to vegetation. BMPs shall include measures designed to provide tem-porary stabilization of inactive disturbed areas and will be applied as soon as possible consistent with SCAQMD (Rule 403) and SWRCB Construction General Permit requirements. The timing of suppressant or binder application will occur as soon as possible and consistent with dust and stormwater permit requirements. Any soil stabilizers pro-posed shall be approved for use by the Project's Restoration Specialist to ensure that the products shall not impede restoration goals.

• Best Management Practices Plan. The DESCP shall identify on the topographic site map(s) the location of the site specific BMPs to be employed during each phase of construction (initial grading, Project element excavation and construction, and final grading/stabilization). BMPs shall include measures designed to control dust, stabilize construction access roads and entrances, and control stormwater runoff and sediment transport consistent with SCAQMD (Rule 403) and SWRCB Construction General Permit requirements.

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• Best Management Practices Narrative. The DESCP shall show the location, timing, and maintenance schedule of all erosion- and sediment-control BMPs to be used prior to initial grading, during excavations and construction, final grading/stabilization, and operation. Separate BMP implementation schedules shall be provided for each Project element for each phase of construction. The maintenance schedule shall include post-construction maintenance of structural-control BMPs, or a statement provided about when such information would be available.

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• The DESCP shall be prepared, stamped, and sealed by a professional engineer or Qualified SWPPP Developer. The DESCP shall include copies of recommendations, con-ditions, and provisions from the Regional Board and/or BLM.

• The DESCP may be part of the SWPPP and shall be kept onsite, kept updated, and readily available on request. The DESCP and SWPPP must demonstrate compliance with other water quality permits (WDR and LSAA), which may have restrictions on types of erosion or sedimentation control materials used. SWPPP inspection reporting will be consistent with the requirements of the SWRCB Construction General Permit.

MM HWQ-2 (Septic System Review and Permitting) Before the start of construction, the

Applicant shall submit to Riverside County Department of Environmental Health an evaluation of the Project septic system to ensure that the proposed use of the system is consistent with federal, state, and local requirements for septic system design, including requirements for percolation, vertical distance from the groundwater table, and setback from the nearest groundwater well.

MM HWQ-3 (Palo Verde Mesa Groundwater Basin [PVMGB] Protection) If water for

the Project, to be obtained from on- or off-site well(s) within the Chuckwalla Valley Groundwater Basin (CVGB), is extracted from on- or off-site well(s) that is/are owned and/or operated by the Applicant, the Applicant shall develop a Colorado River Water

Supply Plan (CRWSP) to monitor groundwater extractions from the Applicant owned and/or operated on- or off-site well(s) to prevent impacts to the adjacent PVMGB related to groundwater extraction below the Colorado River Accounting Surface.

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The CRWSP shall be submitted to the U.S. Bureau of Reclamation and BLM for review and approval at least 60 days prior to the initiation of construction. No pumping of ground-water below the accounting surface shall occur. A copy of the CRWSP shall also be sub-mitted to the Metropolitan Water District of Southern California for review and comment.

- (a) The CRWSP shall describe groundwater monitoring activities and quarterly data reports to be closely reviewed for depth to groundwater information, and proximity of the depth of Project-related groundwater pumping to the Colorado River Accounting Surface. To ensure that Project-related groundwater pumping does not draw water from below the accounting surface, the Applicant shall implement water con-servation activities, including cessation of pumping, to reduce the amount of water withdrawn from on- or off-site well(s) that is/are owned and/or operated by the Applicant.
 - i. The Colorado River Accounting Surface is at an elevation between approxi-mately 238 and 240 feet above mean sea level (amsl) in the Chuckwalla Valley (Argonne, 2013). Groundwater elevation in the Project area is approximately 489 feet amsl as of the first quarter of 2024. The numerical groundwater model developed for the Project Water Supply Assessment (GSI, 2024; discussed below) included estimates of the total cone of depression considering cumula-tive drawdown from all potential pumping in the CVGB, including the Project, for the life of the Project through the decommissioning phase. The estimated drawdown at the Project well after the planned 2-year construction period was less than 2 feet. The temporary drawdown at the well during pumping, however, would be greater.
 - ii. Assuming a conservatively-large temporary drawdown of 100 feet at the Project well(up to 80 feet of temporary drawdown has been recorded from a well-used for

construction of a nearby solar project) during peak water demand during Project construction, the water levels in the Project well would be at least 150 feet above the Colorado River Accounting Surface. The water levels within the Project well would be monitored as part of the GMRMP (MM HWQ-4) per the DRECP LUPA Conservation and Management Action (CMA) Soil and Water (SW) 24. MM HWQ-3 ensures that the Project will not extract water from below the Accounting Surface, as it requires that pumping from Project wells be decreased or stopped well before water levels reached the Colorado River Accounting Surface.

MM HWQ-4 (Groundwater Monitoring, Reporting, and Mitigation Plan [GMRMP])

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Before the Project uses groundwater pumped from any Applicant owned and/or operated well (on site or off site) that extracts water from the CVGB, the Applicant shall retain a BLM-approved qualified hydrogeologist to develop a GMRMP, in coordination with Riverside County and BLM, to ensure that groundwater wells surrounding Project supply well(s) are not adversely affected by Project activities, i.e., chronic lowering of groundwater levels and degradation of groundwater quality. The Applicant shall submit the GMRMP to Riverside County and BLM for review and approval. Additionally, although no Groundwater Sustainability Agencies (GSAs) have been established for the CVGB, in the event that such agencies have been established when the GMRMP is developed, the Applicant also shall submit the GMRMP to those GSAs. The Applicant shall implement the approved GMRMP throughout any Project phase that pumps groundwater for consumptive use.

The GMRMP shall provide a detailed methodology for monitoring site groundwater levels and comparisons for levels within the CVGB including identification of the closest private wells to the Project's well(s). Groundwater level data from wells at adjacent and nearby solar facilities and other Projects on BLM-administered public lands shall be provided by the BLM for review and comparison, to the extent available to the Applicant. Monitoring shall be performed during pre-construction, construction, and operation of the Project, to

establish pre-construction and Project-related groundwater level and water quality trends that can be quantitatively compared against observed and simulated trends near the Project's pumping well(s) and near potentially impacted existing wells. The GMRMP shall include a schedule for submittal of quarterly data reports by the Applicant to the GMRMP designated agencies and the GSA(s) (if established), for the duration of the con-struction period. These quarterly data reports shall be prepared and submitted for review and shall include water level monitoring data and effect on the nearest off-site private wells. The designated agencies shall determine whether groundwater wells surrounding the Project supply well(s) are adversely affected (i.e., chronic lowering of groundwater levels and degradation of groundwater quality) by Project activities and, if so, shall require one or more of the following:

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• Cessation or reduction of pumping at the Project well(s) until groundwater levels return to levels that allow nearby wells to resume pre-Project pumping levels;

• Compensation for whatever additional equipment is necessary to lower nearby pumps to levels that can adequately continue pumping;

due to lowered groundwater levels; or

• Compensation for increased energy cost due to Project-related well drawdown.

After the completion of construction, the Applicant and the BLM shall jointly evaluate the effectiveness of the GMRMP and determine if monitoring and reporting frequencies or procedures should be revised or eliminated.

MM HWQ-5 (Project Drainage Plan) The Applicant shall provide the RWQCB, Riverside County and BLM with a drainage plan for review and approval prior to construction, which includes the following information:

• Hydrologic assessment of flood discharges affecting each parcel.

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• A detailed on-site hydraulic analysis utilizing FLO 2D or similar twodimensional hydrau-lic model which models pre- and post-development flood conditions for the 10- and 100-year storm events. The post-development model must include all proposed Project features, contours, and drainage improvements. Graphical output must include depth and velocity mapping as well as mapping which graphically shows the changes in both parameters between the pre- and post-development conditions.

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• The Drainage Plan shall show the location of all watercourses, drainage concentration points and drainage ditches as they enter, cross, and exit the site. It shall include pre-development and post-development peak flow estimates. It shall include hydraulic calculations to determine flood conditions, floodplain limits, flood depths and veloci-ties. It shall show the relationship of drainage and flood features to the features of the Project, including buildings, fences, substations, access roads, culverts, linear features, and panel supports, demonstrating adequate design to protect from flooding, erosion and scour, and to do so without adversely affecting adjacent property, inducing erosion, or concentrating or diverting flows.

• The Plan shall show how drainage will be conveyed through the site without adversely affecting other property, either through increased flood hazard or increased potential for scour and erosion. Proposed fencing shall allow runoff to traverse the Project site unencumbered, as feasible. The Plan shall include an assessment of existing diversion berms and channels around parcel perimeters and the magnitude and frequency of flood that would be diverted by these existing features, and the probable integrity of these features to withstand flows. It shall show how those that are on the Project site will be affected by grading. It shall include an assessment of flows approaching pro-posed perimeter fences, whether or not adjacent to existing berms, and make design recommendations to avoid flow diversions by these fences while taking into account relevant biological mitigation measures. Design recommendations may include cre-ating fence openings large enough to allow the passage of debris-laden flows without the

potential for diversions to other property.

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• The Plan shall have detailed design of flood retention features necessary to avoid any increase in downstream flood peak flow rates.

• Drainage of Project Site Narrative – The Plan shall include a narrative of the measures necessary to protect the site and Project features from flooding, erosion and sedimen-tation, and measures taken to prevent Project-induced erosion and flooding of adjacent property.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA.

Impact: Groundwater (HWQ-2)

Threshold: The proposed project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

Water for construction, operation, and decommissioning would be obtained from several potential sources, including an on-site groundwater well, an off-site groundwater well, and trucked from an off-site water purveyor. However, it is assumed all Project water needs would be sourced from the CVGB, which has been characterized by DWR as a very low priority basin, and which is not in a state of overdraft.

Based on groundwater modeling completed for the project. the CVGB under average-year conditions would have a surplus of 5,200 AF at the end of the 52-year period. The net CVGB surplus with the Project in place would therefore be 1,700 AF, or 33 percent of the surplus that would exist without the Project. Using the DWR (2020a) estimated annual groundwater pumping, the net CVGB surplus with the Project in place would be 74,500 AF, or 96 percent

of the surplus that would exist without the Project. Thus, with the Project in place, groundwater in storage and ground-water levels in the CVGB would be expected to increase over the life of the Project.

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For a single dry year and single critical dry year with the Project in place, the worst-case scenario is for one of those year types, dry or critical dry, to occur during the construction period of the Project (assumed to be 2024 to 2025) in which the Project would increase the dry year and critical dry year deficit by 8 and 7 percent, respectively. Assuming normal precipitation returns, this total deficit (dry year, or critical dry year, plus Project use) would not be recovered during the 52-year period (with or without the Project). The likelihood that a dry or critical dry year or critical dry year were to occur during Project construction, it would not result in groundwater overdraft of the CVGB, which is defined as the condition of a groundwater basin in which the amount of water withdrawn by pumping exceeds the amount of water that recharges the basin over a period of many years during which water supply conditions approximate average conditions. The deficit associated with a dry or critical dry year during construction does not approximate average conditions and, further, would be limited to those years, after which average conditions (resulting in an annual groundwater surplus, as discussed above) would be expected to return.

If a dry year or critical dry year occurs during the Project construction period, using the DWR (2020a) estimated annual groundwater pumping, the CVGB annual deficit would be approximately 5,000 AF and 6,200 AF, respectively. increase the dry year and critical dry year deficit by 11 and 9 percent, respectively. Assuming normal precipitation returns, this total deficit (dry year plus Project use and critical day year plus Project use) would be recovered in less than 4 years and 5 years, respectively, with the Project in place. The Project also would implement various construction techniques designed to reduce overall water use during construction, including using "overland travel," designating primary travel routes, limiting grading, utilizing small rubber-wheel vehicles, and phasing construction.

Historically, dry and critical dry years do not occur over multiple consecutive years. Rather,

the precipita-tion record indicates that a series of dry years has typically been followed by a series of years with above-average precipitation. Using the driest 52-year period recorded at the Blythe Airport meteorological station, the WSA indicates there would be a 21,060 AF surplus in the CVGB if there were a repeat of this 52-year period under current conditions. With the Project in place, there would be a total groundwater surplus of approximately 17,530 AF at the end of 52 years. Using the DWR (2020a) estimated annual pumping, at the end of the 52-year period the total groundwater surplus would be approximately 90,330 AF with the Project in place.

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The Project has a limited overall water demand and, further, would require very little water each year for operation. Modeling completed for the project indicates the zone of influence after 2 years of Project construction pumping (500 AFY) is an approximately 4.5-mile radius cone of depression out to 0.5 feet of drawdown. Project operational and decommissioning pumping (50 AFY) for 50 years has a cumulative drawdown with an approximately 15-mile radius out to 0.5 feet of drawdown. This zone of influence also includes pumping from cumulative projects.

The modeling results indicate that impacts to groundwater levels as a result of Project and cumulative project pumping are confined to the western part of the CVGB. Although most of the non-cumulative project pumping (see GSI, 2024 Section 5.8.2) in the CVGB occurs in the western part of the CVGB (the total agricultural, municipal, and domestic pumping is limited to approximately 7,900 AFY [CEC, 2010]), cumulative project pumping is not anticipated to adversely affect existing water users and water rights claimants in the CVGB due to the limited magnitude of the simulated drawdown (see the previous paragraph).

The Colorado River Accounting Surface is at an elevation between approximately 238 and 240 feet above mean sea level (amsl) in the Chuckwalla Valley (Argonne, 2013). According to modeling completed for the project, the estimated drawdown at the Project well after the planned 2-year construction period was less than 2 feet, approximately 247 to 249 feet above the Accounting Surface. The temporary drawdown at the well during pumping, however, would be greater. Assuming a conservatively large temporary drawdown of 100 feet at the

Project well (up to 80 feet of temporary drawdown has been recorded from a well used for construction of a nearby solar project) during peak water demand during Project construction, the water levels in the Project well would be at least 150 feet above the Accounting Surface. Further, the water levels within the Project well would be monitored as part of the GMRMP (MM HWQ-4) per the DRECP CMA Soil and Water (SW) 24. Pumping from the Project well would be decreased or stopped well before water levels reached the Accounting Surface, pursuant to MM HWQ-3 (PVMGB Protection). Thus, the Project will not extract water from below the Accounting Surface.

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The Project would not substantially decrease groundwater supplies or interfere substantially h that the Project may impede sustainable groundwater with groundwater recharge suc management of the CVGB. Based on the adopted water budget components (primarily based on Fang et al. [2021]) in the Project WSA (GSI, 2024), under normal conditions (see Table 3-11.1) the CVGB is not in overdraft. The CVGB is a low priority basin and DWR (2004) estimated the total groundwater storage capacity of the CVGB is 9,100,000 to 15,000,000 AF. The Project's water use of 3,500 AF over the 52-year life of the Project represents approximately 0.0004 percent of the assumed 10,000,000 AF of groundwater storage - capacity in the CVGB. Under conservative recharge and pumping assumptions, there would be an annual and net surplus of groundwater in the CVGB over the Project's 52-year life with Project groundwater pumping in place. Only during the unlikely event that a dry or critical dry year overlaps with Project construction (10 percent and 3 percent chance of occurring, respectively) would there be an annual groundwater deficit. However, Project groundwater use would not result in long term deficits or overdraft of the CVGB. Indeed, if the driest 52-year period recorded for the CVGB were to repeat during the Project's operational life, the WSA indicates there would be between a 17,530 AF and 90,330 AF surplus in the CVGB with the Project in place. Overall Project pumping would be limited by both MM HWQ-3 and HWQ 4, which would minimize potential pumping impacts to nearby wells and the larger CVGB. Thus, with mitigation measures and DRECP CMAs, impacts would be less than significant. (EIR p. 3.11-25 to 3.11-28).

Mitigation Measures:

MM HWQ-3 (Palo Verde Mesa Groundwater Basin [PVMGB] Protection) Full text under Hydrology and Water Quality.

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MM HWQ-4 (Groundwater Monitoring, Reporting, and Mitigation Plan [GMRMP]) Full text under Hydrology and Water Quality.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA.

Impact: Drainage (HWQ-3A)

Threshold: The proposed project would not substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on- or off-site. with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

Earthwork for Project construction would require the use of heavy machinery for vegetation grubbing, grading, and installation of roads, solar fields, transmission facilities, the O&M building, the BESS, the energy storage systems, and other facilities, potentially loosen existing surface soils and sediments, increasing the potential for erosion during storm events, along with associated effects such as increased downstream sediment yields from on-site disturbed areas. Increased impervious areas could also lead to erosion by increasing the rate and frequency of runoff. Parts of the solar facility including roads, laydown areas and structures would also cause some form of ground disturbance from grading, compaction, or excavation.

Because of the proposed plan for minimal grading, alteration of the existing drainage pattern and any associated erosion or siltation, should be minimal. The Applicant's proposed layout of solar panels and other facilities would largely maintain major existing hydrologic patterns 3/11/2025 Board Meeting

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with respect to runoff, avoiding washes, stream beds, and stream banks, where feasible. This includes mostly avoiding the largest desert washes that cross the site from the southwest to northeast. However, the site plans are not yet final, and there remains a potential for alteration of drainage patterns and the potential for erosion. Drainage alterations could occur through diversions by the proposed security fences, placement of structures in drainage areas, or grading to control high flow concentrations.

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Changes and alterations to these washes could change the flow patterns across the site and result in increased flow velocities, increased erosion, and increased downstream siltation. Erosion protection management would be required by adherence to a SWPPP which would substantially reduce erosion impacts. A DESCP is proposed in MM HWQ-1 to further address potential Project-related water erosion impacts. Alterations to the RWQCB and CDFW jurisdictional waters would require the Applicant to obtain a LSAA from the CDFW and a WDR permit from the Colorado River Basin RWQCB. Impacts related to surface water degradation due to alterations to waters of the State would be minimized or prevented through compliance with CDFW and RWQCB regulations and permits, MM BIO-3 (Minimization of Vegetation and Habitat Impacts), MM BIO-5 (Vegetation Resources Management Plan), MM BIO-13 (Streambed and Watershed Protection), MM HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]), and MM HWQ-5 (Project Drainage Plan). Implementation of these measures and DRECP CMAs would ensure that this impact is less than significant. (EIR p. 3.11-30 and 3.11-31).

Mitigation Measures:

MM HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) Full text under Hydrology and Water Quality.

MM HWQ-5 (Project Drainage Plan) Full text under Hydrology and Water Quality. MM BIO-3 (Minimization of Vegetation and Habitat Impacts) Full text under Hydrology and Water Quality.

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MM BIO-5 (Vegetation Resources Management Plan) Full text under Hydrology and Water Ouality. MM BIO-1 (Streambed and Watershed Protection) Full text under Biological **Resources.** DRECP CMAs: Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA. *Impact: Drainage (HWQ-3B)* Threshold: The proposed project would not substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site with implementation of mitigation measures. Findings of Fact, Less Than Significant with Mitigation Measures: There is a minor potential for the Project to increase the magnitude and frequency of runoff rates through the construction of impervious areas and by altering the ground surface characteristics through grading and removal of vegetation. However, drainage patterns would remain relatively intact, and the increase in overall site runoff is expected to be minimal (approximately 3 percent), though a local impact potential remains, especially in the vicinity of new impervious areas. Depending on final engineering analysis of postconstruction hydrology, retention basins may be necessary to reduce increased discharges created by the Project. Alteration of the existing drainage pattern should be minimal because of the minimal grading proposed. Some alterations could occur through diversions by the proposed security fences, which could become barriers to flow by the accumulation of debris, in which case diversions

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bottom would enclose the developed portions of the facility site, including across the desert

of off-site sheet flow could occur. Security fencing with desert tortoise fencing along the

washes. Portions of the security fence may leave a 6- to 8-inch gap between the lower fence margin (rail or mesh) and the ground to allow for passage of desert tortoise and other animals. Structures placed in drainage areas, or grading to control high flow concentrations, could also lead to flow diversions which could adversely affect the flood potential within or outside the property.

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Although minimal alteration of drainage patterns is expected, there remains a potential for the Project to cause flooding either of adjacent property or within the site itself. Mitigation Measure HWQ-1 requires the development of a DESCP which would address erosionrelated impacts. The Westwood study (2023) presents a preliminary assessment of the flood potential in the Project area. As the site designs are com-pleted, additional drainage information would be required to ensure that the designs address drainage and flooding conditions on the Project site. Mitigation Measure HWQ-5 (Project Drainage Plan) requires a Project drainage report and plan to address on-site flooding and the potential for the Project to induce flooding on adjacent property. Impacts would be less than significant with implementation of mitigation measures and DRECP CMAs. (EIR p. 3.11-31 and 3.11-32).

Mitigation Measures:

MM HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) Full text under Hydrology and Water Quality.

MM HWQ-5 (Project Drainage Plan) Full text under Hydrology and Water Quality.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA.

Impact: Drainage (HWQ-3C)

Threshold: The proposed project would not substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would create or contribute

runoff water which would exceed the capacity of existing or planned storm water drainage 1 systems or provide substantial additional sources of polluted runoff with implementation of 2 3 mitigation measures. Findings of Fact, Less Than Significant with Mitigation Measures: 4 5 There are no existing or planned stormwater drainage systems at or downstream of the Project site. Drainage in the area and downstream of the Project consists of natural desert 6 7 with natural watercourses. Some increase in runoff potential is possible due to increased impervious area and compacted roadway surfaces, but a large increase is not anticipated due 8 9 to the small amount of new impervious area and compacted roadways. Any increase in runoff 10 would be addressed in the DESCP (MM HWQ-1) and detention regulations. With 11 implementation of DRECP CMAs and MMs HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) and MM HWQ-5 (Project Drainage Plan) in place, this potential 12 impact from runoff would be less than significant. (EIR p. 3.11-32). 13 14 **Mitigation Measures:** 15 MM HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) Full text 16 under Hydrology and Water Quality. -1.7 MM HWQ-5 (Project Drainage Plan) Full text under Hydrology and Water Quality. 18 **DRECP CMAs:** 19 Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an 20 21 explanation of their applicability, and demonstration of compliance with each CMA. 22 23 *Impact:* Drainage (HWQ-3D) 24 Threshold: The proposed project would not substantially alter the existing drainage pattern 25 of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would impede or redirect 26 27 flood flows with implementation of mitigation measures. 28

Findings of Fact, Less Than Significant with Mitigation Measures:

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The Project would include perimeter security fencing which, if clogged with debris normally carried by natural flood flows in the desert, could divert flood flows and increase the flood potential on other property. Fence-induced diversions along drainage entry points could cause flooding of adjacent properties. Fencing is not proposed across existing drainages and fencing would be a long linear element unlikely to become completely blocked by debris accumulations along the entire length of the fence.

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Mitigation Measure HWQ-5 (Project Drainage Plan) would ensure that fence-related diversions of flow are less than significant by ensuring that the site design includes consideration of flood flows and diversions. Most of the Project site would be subject to flooding at varying depths mostly less than one foot. Any structures placed in those areas would have the potential to redirect flood flows. The solar panels would be installed on posts/piles and at least 4 feet above the ground and would offer minimal obstruction to flows. The substation, BESS and O&M building are in an area that would be subject to flooding of approximately 1 foot. These would be protected by berms or other drainage features which could redirect flood flows locally. Mitigation Measures HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) and MM HWQ-5 (Project Drainage Plan) would ensure that the site design include consideration of flood flows and diversions. With these mitigation measures DRECP CMAs in place, this potential impact from runoff would be less than significant. (EIR pp. 3.11-32 and 3.11-33).

Mitigation Measures:

MM HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) Full text under Hydrology and Water Quality.

MM HWQ-5 (Project Drainage Plan) Full text under Hydrology and Water Quality. MM BIO-3 (Minimization of Vegetation and Habitat Impacts) Full text under Biological Resources.

1	÷	MM BIO-5 (Vegetation Resources Management Plan) Full text under Biological
2		Resources.
3		MM BIO-13 (Streambed and Watershed Protection) Full text under Biological
4		Resources.
5	an ann ann Mailtean	DRECP CMAs:
6		Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an
7 8		explanation of their applicability, and demonstration of compliance with each CMA.
9		Impact: Flooding (HWQ-4)
10		Threshold: The proposed project would not expose people or structures to a significant risk
11		of loss, injury or death involving flooding, including flooding as a result of the failure of a
12		levee or dam with implementation of mitigation measures.
13		Findings of Fact, Less Than Significant with Mitigation Measures:
14		Most of the Project would be subject to flooding at varying depths mostly less than one foot.
15		Any structures placed in those areas would have the potential to be flooded. The solar panels
16		would be installed on posts/piles and at least 4 feet above the ground and would be above
17	• • • • • • • • •	the anticipated flood depth but would be subject to scour as the flood flows pass the support
18		posts. The substation, BESS and O&M building are in an area that would be subject to
19		flooding of up to 1 foot. These would be protected by berms or other drainage features. The
20		access roads, being at-grade, would require maintenance after a flood event. The internal
21		power lines would be protected from flooding by burying or being installed on poles, but if
22		on poles could be subject to flood-related scour. The gen-tie line would have similar potential
23		for flood-related scour. As there would be few people on the site at most times, flow depths
24		shallow, and the building structures and other Project features would be protected from
25		flooding or not easily susceptible to flood damage, there would be little chance of flood-
26		related injury or death, or substantial damage to structures. Mitigation Measures HWQ-1
27		(Drainage Erosion and Sedimentation Control Plan [DESCP]) and MM HWQ-5 (Project
28		Drainage Plan) would ensure that the site design include consideration of flood flows.
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Mitigation Measure HWQ-6 (Flood Protection) is proposed to ensure that all structures are protected from flooding and flood-related scour. (EIR pp. 3.11-33.). With implementation of DRECP CMAs and mitigation measures, impacts would be less than significant.

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Mitigation Measures:

MM HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) Full text under Hydrology and Water Quality.

MM HWQ-5 (Project Drainage Plan) Full text under Hydrology and Water Quality.

MM HWQ-6 (Flood Protection) The O&M Building, BESS switchyard, and all other Project buildings shall either be situated outside of the 100-year floodplain or sufficiently protected against dislodgement by flooding where placement outside the floodplain is not practical. Flood protection shall consist of elevating the structures on fill to at least the highest anticipated adjacent flood level as measured from a horizontal stow position. Solar panels shall be situated at least one foot above the highest anticipated local flood level. All structures using posts or poles for foundations, including transmission poles or towers, shall be designed to protect against substantial scour from the 100-year flood event. The Project must comply with Riverside County Ordinance No. 458 for projects within a Special Flood Hazard Area or floodplain: electrical, heating, ventilation, plumbing, and air conditioning equipment and other service facilities must be designed or located to prevent water from entering or accumulating within the components during flooding.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA.

H. <u>Noise</u>

Impact: Noise (N-1)

Threshold: The proposed project would not generate a substantial temporary or permanent

increase in ambient noise levels in the vicinity of the project in excess of established standards with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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Increased ambient noise would occur during the approximately 20 months of construction of the proposed Project. The construction activity likely to cause the highest noise levels at the site would be installation of steel piles for supporting the PV module structures. The noise levels caused by typical activities within the site would be substantially lower when experienced at locations distant from the site boundaries. Assuming the standard spherical spreading loss (reduction of 6 dB per doubling of distance) and the highest unmitigated construction noise source of 83 dBA Leq at 50 feet, the noise level caused by a typical spread of construction equipment would be 62 dBA Leq at the nearest occupied residences in the Lake Tamarisk community, 200 meters (656 feet) from the nearest proposed construction. Therefore, the nearest receiver locations would not be exposed to noise levels exceeding the reasonable daytime 80 dBA Leq or the nighttime 70 dBA Leq thresholds during construction activities.

Along SR-177, the traffic from construction-related workers and haul trucks would increase SR-177 day-night noise levels by 3 dBA over the baseline levels, from 63 dBA to approximately 66 dBA Ldn within 100 feet of the centerline or from 64 dBA to 67 dBA CNEL. Construction-related traffic noise impacts would occur primarily but not exclusively during daytime conditions. To reduce the impact of evening and nighttime construction traffic noise, MM N-1 (Construction Restrictions) would be implemented to ensure that any construction activities within 0.25 miles of a sensitive receptor outside of the schedule of the Noise Ordinance would be limited to light-duty equipment and vehicles. Mitigation Measures N-2 (Public Notification Process) and N-3 (Noise Complaint Process) would ensure that residents nearest to the Project site boundaries and access roads are provided advance notification of potentially adverse noise conditions and to ensure that complaints are resolved. With the recommended mitigation measures, construction would not result in

a substantial increase in noise levels in excess of standards established in the local general plan or noise ordinance or applicable standards of other agencies and the impact of construction noise relative to applicable community noise standards would be less than significant. Implementation of APM NOISE-1 will further reduce this less-than-significant impact because it will avoid or minimize use of any impact hammer within a one-mile radius of residents.

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Gen-tie construction noise would result in a readily perceptible, but temporary, increase in daytime environmental noise. Near each pole site, the equipment in the gen-tie construction spread and overhead helicopter operations would generate increase ambient noise during use of offroad equipment and during helicopter overflights, takeoffs, and landings. Gen-tie construction noise would occur along an alignment that is not within 0.25 mile of any inhabited dwellings. However, helicopter operations could conflict with Riverside County General Plan policies to minimize the impacts of construction noise if not limited to occur during daytime hours. Mitigation Measure N-1 (Construction Restrictions) would ensure that construction activities outside of the schedule of the Noise Ordinance would be limited to light-duty equipment and vehicles, and Mitigation Measures N-2 (Public Notification Process) and N-3 (Noise Complaint Process) would also ensure that nearby residents are provided advance notification of potentially adverse noise conditions and to ensure that complaints are resolved. For construction of the gen-tie, this impact with mitigation would be less than significant.

Once operational, throughout the solar field, the equipment that could generate the most prominent stationary source noise would be the pad-mounted inverter-transformer stations.

The dominant stationary sources of noise near the proposed operation and maintenance (O&M) building would be related to the heating, ventilation, and air conditioning units (HVAC), if necessary for the O&M building and the BESS enclosures. The proposed Project would also introduce the permanent stationary source of noise from the audible corona noise

that occurs with normal and routine operation of the 500 kV gen-tie.

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The overall noise levels caused by the solar facility would be subject to the 45 dBA Lmax standard of the Noise Ordinance that applies at the boundary of any nearby occupied property. The noise from operation of the proposed Project would not exceed the Noise Ordinance standard of 45 dBA at night for any occupied "rural community" location. Therefore, the impact of operational noise relative to applicable community noise standards would be less than significant.

With implementation of DRECP CMAs and mitigation measures, impacts would be less than significant. (EIR pp. 3.13-8 to 3.13-12).

Applicant Proposed Measures:

APM NOISE-1 (Construction Timing) Applicant will avoid or minimize use of any impact hammer for pile driving or other equipment similarly capable of producing disruptive noise during construction activities within a one-mile radius from the residential parcel on the northeast corner of around the Lake Tamarisk Desert Resort community during the winter months of highest residency (November 1 to March 31). If based on the final construction schedule, use of such equipment is necessary within this geographic area during the aforementioned time period, the Applicant will avoid or minimize this construction activity prior to 7:00 a.m. and after 6:00 p.m. The Applicant will also avoid nighttime equipment deliveries between 10:00 p.m. and 7:00 a.m.

Mitigation Measures:

MM N-1 (Construction Restrictions) Heavy equipment operation, noisy construction work relating to any Project features onsite, and truck trips associated with materials and equipment deliveries shall be restricted to the times delineated below, unless a special permit has been issued by the County of Riverside: during June through September, between 6 a.m. to 6 p.m.; and during October through May, between 7:00 a.m. to 6:00 p.m.

Haul truck engines and other engines powering fixed or mobile construction equipment shall be equipped with adequate mufflers. Haul trucks shall be operated in accordance with posted speed limits. Truck engine exhaust brake use shall be limited to emergencies.

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The construction contractor shall locate equipment staging in areas to create the greatest distance between construction-related noise sources and noise sensitive receivers nearest the Project site during Project construction. Where feasible, the construction contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the Project site. No music or electronically reinforced speech from construction workers shall be audible at noise-sensitive properties.

MM N-2 (Public Notification Process) At least 15 days prior to the start of ground disturbance, the Project owner shall notify all residents within one mile of the Project site and the linear facilities, by mail or by other effective means, of the commencement of Project construction. At the same time, the Project owner shall establish a telephone number for use by the public to report any undesirable noise conditions associated with the construction and operation of the Project. If the telephone is not staffed 24 hours a day, the Project owner shall include an automatic answering feature, with date and time stamp recording, to answer calls when the phone is unattended. This telephone number shall be posted at the Project site during construction where it is visible to passersby. This telephone number shall be maintained until the Project has been operational for at least one year.

MM N-3 (Noise Complaint Process) Throughout the construction and operation of the Project, the Project owner shall document, investigate, evaluate, and attempt to resolve all Project-related noise complaints. The Project owner or authorized agent shall:

 Use a Noise Complaint Resolution Form, or other documentation procedure acceptable to the County, to record and report the Project owner's response to resolving each noise complaint;

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2. Attempt to contact the person(s) making the noise complaint within 24 hours; 3. Conduct an investigation to determine the source of noise in the complaint; 4. If the noise is Project-related, take all feasible measures to reduce the source of the noise; and 5. Submit a report to the County documenting the complaint and actions taken. The report shall include: a complaint summary, including the final results of noise reduction efforts and, if obtainable, a signed statement by the complainant stating that the noise problem has been resolved to the complainant's satisfaction. **DRECP CMAs:** Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA. I. **Paleontological Resources** Impact: Paleontological Resources (PR-1) Threshold: The proposed project would not directly or indirectly destroy a unique paleontological resource or site or unique geologic feature with implementation of mitigation measures. Findings of Fact, Less Than Significant with Mitigation Measures: Significant paleontological resources are determined to be fossils or assemblages of fossils that are unique, unusual, rare, uncommon, or diagnostically important. Most impacts on paleontological resources are direct impacts, resulting from ground-disturbing activities that would damage or destroy resources. No mass grading would be required; however, some areas of the solar site would be affected by some form of ground disturbance, including mowing, grubbing, minor grading, compaction, and excavation. The desktop paleontological assessment conducted for the Project identified paleontological resources in the Project vicinity and the paleontological field survey identified

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paleontological resources on the Project site, including four significant vertebrate fossils. Significant paleontological resources could be encountered and adversely impacted (damaged or destroyed) during ground disturbance associated with Project construction. The moderate to high sensitivity of the formations and known and potential paleontological resources underlying the Project site necessitates the implementation of a Paleontological Resources Monitoring and Mitigation Plan (PRMP) and worker awareness training to minimize the impact of construction-related activities. Mitigation Measures PR-1 through PR-4 would require a PRMP, paleontological awareness training, paleontological monitoring where appropriate, and mitigation and recovery procedures in the event of a discovery. Implementation of Mitigation Measures PR-1 through PR-4, and the installation of fencing around the perimeter of the Project facility, would minimize the potential for indirect impacts, such as unauthorized collection of resources, to paleontological resources by limiting unauthorized access to the site, putting in place a monitoring program to ensure fossil identification and recording during construction, and providing an educational program to workers so that paleontological resources are avoided or reported to qualified professionals. With implementation of DRECP CMAs and Mitigation Measures PR-1 through PR-4, potential adverse impacts on paleontological resources within the Project area during construction and operation of the solar facilities would be reduced to a less-thansignificant level. (EIR pp. 3.14-8 and 3.14-9).

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Mitigation Measures:

MM PR-1 (Paleontological Resource Monitoring and Mitigation Plan [PRMP]) Prior to

the start of any Project-related construction activities, the Applicant shall retain a Countyand BLM-approved paleontologist (Project Paleontologist) to prepare and implement a project-specific PRMP to be approved by the County and BLM. The Project Paleontologist shall hold a BLM-issued Paleontological Resource Use Permit and be responsible for imple-men-ting all the paleontological conditions of approval and for using qualified paleontologists to assist in work and field monitoring.

At a minimum, information to be contained in the PRMP, in addition to other information

required under industry standard, Society of Vertebrate Paleontology standards, and BLM paleontology program policy and standards, is as follows:

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• Identification (name) and qualifications of the Project Paleontologist and qualified paleontological monitors to be employed for grading operations monitoring.

• Identification of personnel with authority and responsibility to temporarily halt or divert grading equipment to allow for recovery of large specimens.

• Description of the project site and planned earthwork and excavation.

• A site-specific plan and map prepared by the Project Paleontologist which identifies construction impact areas with sediments of High (PFYC 4) and Moderate (PFYC 3a) sensitivity for encountering significant paleontological resources and the approximate depths at which those resources are likely to be encountered for each Project component.

• The PRMP shall require the qualified paleontological monitor(s) to monitor all con-struction-related earth-moving activities in sediments determined to have a High (PFYC 4) sensitivity.

• The PRMP shall define monitoring procedures and methodology and shall specify that sediments of Moderate (PFYC 3a) or undetermined sensitivity shall be monitored on a part-time basis (as determined by the Project Paleontologist). Sediments with very low or low potential will not require paleontological monitoring (PFYC 1 and 2).

• The PRMP shall detail methods of recovery, preparation, and analysis of specimens, the final curation location of specimens at the repository identified in the BLM-issued Paleontological Resource Use Permit, data analysis, and reporting. Where possible, recovery is preferred over avoidance in order to mitigate the potential for looting of paleontological resources.

• The PRMP shall specify that all paleontological work undertaken by the Applicant on public lands administered by BLM shall be carried out by qualified,

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permitted paleon-tologists with the appropriate current BLM Paleontological Resources Use Permit.

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Identification of personnel with authority and responsibility to temporarily halt or divert ground-disturbance activities to allow for recovery of large specimens. The PRMP shall be submitted to the County and BLM for review and approval 60 days prior to start of Project construction. The PRMP must be approved by the County and BLM prior to the Notice To Proceed.

MM PR-2 (Worker Environmental Awareness Program (WEAP)) Prior to the start of Project-related construction activities, a paleontological component to the WEAP shall be developed by the Project Paleontologist. The WEAP shall address the potential to encounter paleonto-logical resources in the field, the sensitivity and importance of these resources, and the legal obligations to preserve and protect such resources. The training program shall also include the set of reporting procedures that workers are to follow if paleontological resources are encountered during Project activities. The WEAP may be combined with other environmental training programs for the Project. All field personnel will receive WEAP training on paleontological resources prior to Project-related construction activities.

MM PR-3 (Paleontological Monitoring and Fossil Recovery) The PRMP shall identify monitoring frequency and intensity of all areas of the Project site, particularly in areas underlain by geologic units assigned paleontological sensitivity of High (PFYC 4) or Moderate (PFYC 3a). Monitoring will entail the visual inspection of excavated or graded areas and trench sidewalls. If the Project Paleontologist determines full-time monitoring is no longer warranted, based on the geologic conditions at depth, he or she may recommend to the BLM Authorized Officer that monitoring be reduced or cease entirely.

In the event that a paleontological resource is discovered, the paleontological monitor will have the authority to temporarily divert the construction equipment around the find until it is assessed for scientific significance and, if appropriate, collected. If the resource is determined to be of scientific significance, the Project Paleontologist shall complete the

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following:

• Salvage of Fossils. If fossils are discovered, all work in the immediate vicinity shall be halted to allow the paleontological monitor, and/or Project Paleontologist to evaluate the discovery and determine if the fossil may be considered significant. If the fossils are determined to be potentially significant, the Project Paleontologist (or paleontological monitor) will recover them following standard field procedures for collecting paleonto-logical as outlined in the PRMP prepared for the Project. The Project Paleon-tologist shall have the authority to temporarily direct, divert or halt construction activity to ensure that the potentially significant fossil(s) can be removed in a safe and timely manner.

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• Fossil Preparation and Curation. The museum that has agreed to accept fossils that may be discovered during Project-related excavations will be identified on the Pale-ontological Resources Use Permit held by the Project Paleontologist and in the PRMP. Upon completion of Project ground-disturbing activities, all significant fossils collected shall be prepared in a properly equipped laboratory to a point ready for curation. Preparation may include the removal of excess matrix from fossil materials and stabilizing or repairing specimens. During preparation and inventory, the fossils speci-mens shall be identified to the lowest taxonomic level practical prior to curation at an accredited museum. The fossil specimens must be delivered to the County- and BLM-approved repository (identified on the permit and in the PRMP) and receipt(s) of collections submitted to the County and BLM no later than 60 days after all ground-disturbing activities are completed.

MM PR-4 (Paleontological Resources Monitoring Report) The Applicant shall ensure preparation of a paleontological resource mitigation and monitoring report by the Project Paleontologist following completion of ground-disturbing activities. The contents of the report shall include, but not be limited to, a description and inventory list of recovered fossil materials (if any); a map showing the location of paleontological resources found in the field;

determinations of scientific significance; proof of accession of fossil materials into the preapproved museum or other repository; and a statement by the Project Paleontologist that Project impacts to paleontological resources have been mitigated. The report shall be certified by the professionally qualified Project Paleontologist responsible for the con-tent of the report and submitted to the County and BLM. In addition, all appropriate fossil location information shall be submitted to the Western Information Center, San Bernardino County Museum, and Los Angeles County Museum of Natural History, at a minimum, for incorporation into their Regional Locality Inventories.

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DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA.

J. Traffic and Transportation

Impact: Compliance with Transportation Plans (TRA-1)

Threshold: The proposed project would not conflict with an applicable plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

The addition of Easley Project-related con-struction trips to the ambient conditions (Sapphire Project plus three projects in O&M) could result in three intersections operating at LOS F, an unacceptable level: (1) I-10 westbound ramp at SR-177 – LOS F (AM Peak Hour), (2) Rice Road (SR-177) at Ragsdale Road – LOS F (PM Peak Hour), and (3) Rice Road (SR-177) at Kaiser Road (County Route R2) – LOS F (PM Peak Hour).

To ensure that impacts from temporary construction-related trips are reduced to the extent feasible, Mitigation Measure TRA-1 (Construction Traffic Control Plan) is proposed and would require the applicant prepare a Construction Traffic Control Plan for review and approval by Caltrans and Riverside County. This plan requires the applicant to reduce

construction-related trips during morning (7:00 a.m. to 9:00 a.m.) and afternoon (4:00 p.m. to 6:00 p.m.) peak hours on I-10 and SR-177. If the traffic conditions at the time of Project construction reflect the ambient conditions due to overlapping construction, the measure requires the applicant to install a temporary signal or use manual intersection control, and geometry changes at the I-10 westbound ramp at SR-177. Without the cumulative trips, the Project is not expected to result in an unacceptable LOS as it would result in fewer vehicle trips than the ambient conditions. The measure allows for adaptive management given the uncertain schedule for some projects included in the ambient conditions. With the implementation of Mitigation Measure TRA-1, impacts from temporary construction-related vehicle trips to the performance of Project area roadways would be less than significant.

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During project operations, it is estimated average daily traffic volumes associated with Project operation would be approximately 15 daily round trips (30 total trips), with the majority being passenger vehicles. The addition of 30 daily trips would have a negligible effect on performance of the study area transportation system and less than significant impacts would occur.

Construction of the solar facility is not expected to require any temporary lane closures that could restrict the movements of vehicles or pedestrians. However, construction of the Project would require large vehicles to travel on local roadways to access the Project site. MM TRA-1 (Construction Traffic Control Plan) requires the Construction Traffic Control Plan be reviewed and approved by Caltrans and Riverside County and includes provisions for ensuring detours or safe movement of traffic through all affected areas. With the implementation of this measure, impacts related to transit, bicycle, and pedestrian use during construction would be less than significant.

Once constructed, maintenance activities would occur as needed at the solar facility but are not expected to require any temporary travel lane closures that could restrict the local circulation system. Impacts related to transit, bicycle, and pedestrian use during project

operations would be less than significant. (EIR pp. 3.18-14 to -15).

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Mitigation Measures:

MM TRA-1 (Construction Traffic Control Plan) Prior to the start of construction, the Project owner shall submit a Construction Traffic Control Plan for review and approval by Caltrans and Riverside County for affected roads and intersections that would be directly affected by the construction activities and/or would require permits and approvals. The Construction Traffic Control Plan shall include, but not be limited to:

If multiple construction projects occur at the same time and conditions at the intersection warrant, plans for installation of a temporary signal or use of manual intersection control during the construction period at the I-10 westbound ramp at SR-177. Additionally, if conditions warrant, geometry changes shall be considered in coordination with Caltrans and Riverside County, and implemented, if necessary, in addition to signalization at the I-10 westbound ramp and SR-177. These geometry changes could include a turn pocket.

- The locations and use of flaggers, warning signs, barricades, delineators, cones, arrow boards, etc., according to standard guidelines outlined in the Manual on Uniform Traffic Control Devices, the Standard Specifications for Public Works Construction, and/or the California Joint Utility Traffic Control Manual.
- The locations of all road or traffic lane segments that would need to be temporarily closed or disrupted due to construction activities.
- The locations where guard poles, netting, or similar means to protect transportation facilities for any construction or conductor installation work requiring the crossing of a local street or highway is proposed.
- The use of continuous traffic breaks operated by the California Highway Patrol on state highways (if necessary).

• Additional methods to reduce temporary traffic delays to the maximum extent feasible during morning (7:00 a.m. to 9:00 a.m.) and afternoon (4:00 p.m. to 6:00 p.m.) peak traffic periods, or as directed in writing by the affected public agency in encroachment or other permits). This should also include feasible ways to avoid construction-related trips on I-10 and SR-177 during peak traffic periods.

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- Plans to encourage or provide ridesharing/carpooling opportunities for construction and operational workers.
- Plans to provide written notification to property owners and tenants at properties affected by access restrictions to inform them about the timing and duration of obstructions and to arrange for alternative access if necessary. The coordination shall occur at least one week prior to any blockages.
- Plans to coordinate in advance with emergency service providers to avoid restricting the movements of emergency vehicles. Police departments and fire departments shall be notified in advance by the Project owner of the proposed locations, nature, timing, and duration of any roadway disruptions, and shall be advised of any access restrictions that could impact their effectiveness. At locations where roads will be blocked, provisions shall be ready at all times to accommodate emergency vehicles, such as immediately stopping work for emergency vehicle passage, providing short detours, and developing alternate routes in conjunction with the public agencies.
- Define the method to maintaining close coordination, prior to and during construction, with Caltrans and Riverside County to minimize cumulative impacts of multiple simultaneous construction projects affecting shared portions of the circulation system. Coordination with adjacent development projects to spread work shifts into multiple hours (instead of peak hour) or the installation of additional temporary traffic signals or manual traffic control officers during peak hours to mitigate the temporary impacts.

Impact: Vehicle Miles Travelled (TRA-2)

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Threshold: The proposed project would not conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b) regarding transportation impacts with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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Construction of the Project would average 320 workers per day who would commute to the Project site with a maximum of 530 workers during peak construction. In addition, an estimated 80 round trips per day would be required to deliver materials and equipment to the Project site. Per State CEQA Guidelines Section 15064.3(b)(3), a qualitative VMT analysis of construction trips is appropriate, given that the construction-related trips are not ongoing once construction is completed. Due to the remote location of the Project site, many construction truck trips may require high VMT to access the site. However, all constructionrelated truck trips would be temporary and only in volumes necessary to deliver equipment and materials to the site. Upon completion of construction, all truck trips and construction worker commute trips would cease. At this time, no known applicable VMT thresholds of significance for temporary construction trips that may indicate a significant impact are known. MM TRA-1 (Construction Traffic Control Plan) requires the Applicant to prepare a Construction Traffic Control Plan, with the Plan providing means to encourage or provide ridesharing opportunities for construction workers. Therefore, while the proposed Project would include temporary construction trips that may include high VMT, they would not affect existing transit uses or corridors and are presumed to cause a less than significant transportation impact.

Once constructed, operation and maintenance of the Project would generate very few vehicle trips. Project operation is not considered to result in high VMTs that could adversely affect transit or transportation planning for the area. Therefore, operational-related trips would not affect existing transit uses or corridors and are presumed to cause a less-than-significant transportation impact. (EIR p. 3.18-16 to -17).

Mitigation Measures:

MM TRA-1 (Construction Traffic Control Plan) Full text under Traffic and Transportation.

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Impact: Roadway Safety (TRA-3)

Threshold: The proposed project would not increase transportation hazards due to a geometric design feature or incompatible use with implementation of mitigation measures. Findings of Fact, Less Than Significant with Mitigation Measures:

Most construction traffic would access the Project area via I-10 and SR-177, accessing private site entrances from SR-177 and Kaiser Road adjacent to the Project site. Due to the flat topography, both the freeway and local roadways accessing the site have a relatively straight horizontal alignment with good visibility in all direc-tions All access driveways to the site from SR-177 would comply with County and Caltrans requirements to ensure safe site ingress and egress. Traffic on public freeways and roads would be of the same vehicle types (passenger vehicles and heavy trucks) that currently occur and are allowed. Construction-related traffic would be compatible with existing traffic. Therefore, no additional roadway hazards would occur from Project-related vehicle trips on transportation facilities. Additionally, MM TRA-1 (Construction Traffic Control Plan) requires the preparation of a Construction Traffic Control Plan to be reviewed and approved by Caltrans and Riverside County. This Plan includes provisions for ensuring detours or safe movement of local resident vehicles, pedestrians, and bicycles through all affected facilities. With the incorporation of this mitigation, hazard impacts from Project-related vehicle use of public roadways would be less than significant.

The movement of heavy trucks and equipment on public roads to Project work areas could potentially result in damage to road surfaces, shoulders, curbs, sidewalks, signs, and light standards. MM TRA-2 (Repair Roadways and Transportation Facilities Damaged by Construction Activities) is proposed to ensure any damage and deterioration attributed to the Project would be repaired. With the incorporation of this mitigation, hazard impacts from transportation facility damage demonstrable to the Project would be less than significant.

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The 500 kV gen-tie line would cross SR-177 overhead, requiring temporary lane closures when the conduit is strung between towers east and west of the highway. Collector lines from the solar arrays located east of SR-177 would be installed under SR-177 using directional drilling. Traffic would not be affected.

During operations and maintenance, it is estimated average daily traffic volumes associated with the Project would be approximately 15 round trips (30 total trips), with the majority being passenger vehicles. This amount of operational daily trips would have a negligible effect on public roadway safety, and MM TRA-1 would encourage carpooling. Therefore, impacts would be less than significant with mitigation. (EIR p. 3.18-17).

Mitigation Measures:

MM TRA-1 (Construction Traffic Control Plan) Full text under Traffic and Transportation.

MM TRA-2 (Repair Roadways and Transportation Facilities Damaged by Construction Activities) If roadways, sidewalks, medians, curbs, shoulders, or other such transportation features are damaged by Project construction activities, as determined by the affected public agency, such damage shall be repaired and restored to their pre-Project condition by the Project owner. Prior to construction, the Project owner shall confer with Caltrans and Riverside County regarding the roads within 500 feet in each direction of Project access points (where heavy vehicles will leave public roads to reach Project sites) and regarding the roads to be crossed by the proposed gen-tie line. At least 30 days prior to construction, or as requested by Riverside County or Caltrans, the Project owner shall photograph or video record all affected roadway segments and shall provide Riverside County and Caltrans with a copy of these images, if requested.

At the end of major construction, the Project owner shall coordinate with each affected jurisdiction to confirm whether repairs are required. Any damage demonstrable to the Project

is to be repaired to the pre-construction condition within 60 days from the end of all construction, or on a schedule mutually agreed to by the Project owner and the affected jurisdiction. If multiple projects are using the transportation features, the Easley Project owner shall pay its fair share of the required repairs. the Project owner shall provide Riverside County and Caltrans (as applicable) proof when any necessary repairs have been completed.

Impact: Emergency Response (TRA-4)

Threshold: The proposed project would not result in inadequate emergency response access or access to nearby properties with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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Construction of the solar facility is not expected to require tempor-ary lane closures that could restrict the movements of emergency vehicles. The Project site would have controlled access points for ingress and egress at the site. These access points would allow for emer-gency vehicle access into and through the site. The Project would not block access to nearby properties. Therefore, impacts during construction would be less than significant. Once constructed, maintenance activities would occur as needed at the solar facility but are not expected to require any temporary travel lane closures that could restrict emergency vehicle movements. Emergency responders would have access to any locked gates into the site. Impacts would be less than significant.

Construction of the gen-tie line may require temporary closure or disruption to travel lanes. Mitigation Measure TRA-1 (Construction Traffic Control Plan) is proposed to provide specificity regarding the means to reduce potential impacts from any temporary travel lane disruptions during construction of the gen-tie line. Additionally, Mitigation Measure TRA-1 (Construction Traffic Control Plan) requires the Construction Traffic Control Plan be reviewed and approved by Caltrans and Riverside County and would include plans to coordinate in advance with emergency service providers to avoid restricting the movements of emergency vehicles. With the incorporation of this mitigation, impacts from temporary

construction-related disruptions to the affected circulation system would be less than significant. Once operational, there would be no impacts to emergency access or vehicle movement. (EIR pp. 3.18-18 to -19).

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Mitigation Measures:

MM TRA-1 (Construction Traffic Control Plan) Full text under Traffic and Transportation.

K. Wildfire

Impact: Emergency Response Plan (FIRE-1)

Threshold: The proposed project would not substantially impair an adopted emergency response plan or emergency evacuation plan with implementation of mitigation measures. Findings of Fact, Less Than Significant with Mitigation Measures:

The Project would be constructed in a remote area with existing, approved, and proposed solar projects nearby. SR-177 would be the primary access road to the solar facility site, and several ingress/egress points would be established for construction access. An internal roadway system would be constructed to provide access within the Project site. Construction of the solar facility, battery energy storage system (BESS), and other components would not require any temporary lane closures on public roads. Although construction vehicles would be present on public roads to access the Project site, construction of the solar facility is not expected to restrict the movements of emergency vehicles. The new ingress and egress points at the Project site would allow for emergency vehicles. Mitigation Measure (MM) TRA-1 (Construction Traffic Control Plan) is proposed to provide specificity to reduce potential impacts from any temporary travel lane disruptions during construction of the gen-tie line, reducing the impacts from temporary construction-related traffic disruptions to less than significant.

Construction of the gen-tie line would primarily occur within the 175-foot BLM right-of-

way, but this disturbance would not obstruct any public rights-of-way. A small section of the gen-tie line would be strung across SR-177, potentially requiring temporary lane closures during stringing of the wire between towers east and west of SR-177. Mitigation Measure (MM) TRA-1 (Construction Traffic Control Plan) is proposed to provide specificity to reduce potential impacts from any temporary travel lane disruptions during construction of the gen-tie line. MM TRA-1 (Construction Traffic Control Plan) requires the Construction Traffic Control Plan) requires the Construction Traffic Control Plan be reviewed and approved by Caltrans and Riverside County and would include plans to coordinate in advance with emergency service providers to avoid restricting the movements of emergency vehicles (see Impact TRA-4 in Section 3.18, Traffic and Transportation, for full text). With the incorporation of this mitigation measure, impacts from temporary construction-related traffic disruptions would be less than significant

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Maintenance activities are not expected to require any temporary lane closures that could restrict emergency vehicle movements due to the small number of employees (up to 10 permanent staff) that may travel to the site. Additionally, staff would be located off site and would be available to respond to alerts generated by the monitoring equipment at the Project site. Access roads would provide a fire buffer as well as facilitate on-site circulation for emergency vehicles. Impacts during Project operations would be less than significant. Decommissioning the Project would require similar equipment and workforce as Project construction but would be substantially less intense, and therefore, would result in less-than-

significant impacts associated with emergency response plans or evacuation plans. (EIR pp.

3.19-5 and 3.19-6)

Mitigation Measures:

MM TRA-1 (Construction Traffic Control Plan) Full text under Traffic and Transportation.

Impact: Emergency Response Plan (FIRE-2)

Threshold: The proposed project would not expose Project occupants to pollutant

concentrations from a wildfire or the uncontrolled spread of a wildfire with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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The Project is not located in a high or very high FHSZ, and thus would not be in an area prone to wildfires. Wildfires in California typically occur in heavily forested areas and vegetated grassy hillsides, and communities generally at highest risk of wildfire hazards are those located within these areas or in the wildland urban interface. Due to the presence of sparse vegetation, relatively flat topography, the remote location of the Project, and its desert setting, the potential for the Project to exacerbate wildfire risks and expose nearby residences to the hazards of wildfire is low. Prior to construction, vegetation would be mowed, grubbed, rolled, cut, or cleared. Reduction of vegetation would reduce the availability of flammable fuels around the Project site. Wires would be buried at a minimum of 18 inches below grade, minimizing the potential for faulty wiring to ignite a fire, and prior to wire setup, work areas would be cleared of vegetation to reduce the risk of ignition from any vehicles or equipment. All electric inverters and the transformer would be constructed on concrete foundation structures or steel skids and tested prior to use to ensure safe operations and to minimize fire risks. Small quantities of hazardous chemicals such as fuels and greases would be stored in appropriate containers in an enclosed and secured location with secondary containment to prevent leakages and accidental fires. During construction, a fire suppression system would be placed in service if required by the County or BLM Fire. Fire extinguishers and other portable firefighting equipment would be available on site and would be maintained in accordance with State and federal Occupational Safety and Health Administration (OSHA) requirements.

As described in EIR section 2.5.13, fire safety measures would be implemented as part of the Project to limit risk of personnel injury, property loss, and potential disruption of electrical generation. The project's Fire Management and Prevention Plan would includes standards for construction, would comply with applicable BLM and Riverside County

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regulations, and would be developed in coordination with the BLM and the RCFD. Implementation of DRECP CMAs and MM FIRE-1 (Fire Safety) would further reduce the risk of fire and would specify Fire Management and Prevention Plan elements to address fire-safe construction measures, including welding, reduction of ignition sources, control of fuel sources, availability of water, and property maintenance of firefighting systems. The Project's location, components, safety measures, and implementation of MMs would ensure the safe construction of the solar facility. As such, the proposed Project would not exacerbate wildfire risks or expose workers and residents to pollutant concentrations from a wildfire or the uncontrolled spread of wildfire. Construction of the solar facility and BESS would result in less-than-significant impacts with mitigation.

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The gen-tie transmission structures would be constructed with either monopoles, lattice steel structures, or wooden H-frame poles and would not exacerbate fire risks, as foundations would be constructed with concrete foundations. Construction of the gen-tie transmission line and structures would use existing access roads where feasible. During construction, vegetation within the gen-tie corridor would be reduced or cleared as part of fire safety measures to reduce the likelihood of ignition from vehicles or equipment. As described previously, fire safety measures would be implemented to ensure that construction of the Project components, including the gen-tie line, are implemented in accordance with applicable fire protection and environmental, health, and safety requirements. As such, construction of the Project's gen-tie line would result in less-than-significant impacts

Once operational, up to 10 workers are anticipated to perform daily visual inspections and minor repairs to ensure all Project components are in good working condition. Due to the reduction vehicle trips and workers, the risk of on-site accidental fires caused by human activities such as smoking, hot work (i.e., welding), and improper vehicle operation would be reduced. The Project facility would be monitored by both on-site and remote O&M personnel. Vegetation maintenance would ensure that flammable vegetation would not grow within access roads or electrical components. Fire hazards during operation of the solar

facility would be reduced with implementation of DRECP CMAS, the Fire Management and Prevention Plan and MM FIRE-1 (Fire Safety) and would ensure the impact from operation of the solar facility is less than significant.

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Solar arrays and photovoltaic modules are fire-resistant and would not be susceptible to ignition from fires. In a potential wildfire situation, the panels would be rotated and stowed in a panel-up position that could slow the spread of a fire. Security at the Easley solar facility would continue to be provided by a 6-foot-tall chain-link fence and barbed wire to prevent vandalism, damage, or theft of Project components during operations.

The Project includes operation of an up to 650-MW BESS. Potential electrical fires would be contained within the BESS enclosures and would not spread beyond them. The BESS would be installed following all applicable design, safety, and fires standard for the installation of energy storage systems. Furthermore, MM FIRE-1 includes a measure to include information about the type of BESS technology on site, potential hazards, and procedures for disconnecting or shutting down the BESS in case of an accidental fire. The BESS's impact of exposure of people to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire to less than significant with implementation of mitigation measures and DRECP CMAs

Wildfire risk along the gen-tie corridor would be minimal due to the lack of substantial vegetation, and concrete foundations would further reduce the spread of fire. As described previously, fire safety measures would be implemented to ensure that operation of the Project components, including the gen-tie line, are implemented in accordance with applicable fire protection and environmental, health, and safety requirements, which require vegetation clearance, regular inspections and maintenance, and monitoring weather conditions such as high-wind conditions. As such, operation of the Project's gen-tie line would result in less-than-significant impacts.

Decommissioning of the solar facility, BESS, gen-tie line, and other Project components

would require a similar workforce and equipment as Project construction, but at a lower intensity. Decom-mis-sion-ing activities would follow the same DRECP CMAs and fire safety measures as construction, including adherence to the Fire Management and Prevention Plan. Implementation of MM FIRE-1 would include additional measures to the Fire Management and Prevention Plan, such as fire prevention procedures and emergency response that would minimize the likelihood of a wildfire from starting or spreading. Impacts would be less than significant with mitigation. (EIR pp. 3.19-6 to 3.19-9)

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Mitigation Measures:

MM FIRE-1 (Fire Safety) The Fire Management and Prevention Plan prepared by the Project owner to ensure the safety of workers and the public and minimize fire risk during construction, operation and maintenance, and decommissioning for the Project shall include, but not be limited to, the following elements:

• Procedures for minimizing potential ignition, including, but not limited to, vegetation clearing, parking requirements/restrictions, idling restrictions, smoking restrictions, proper use of gas-powered equipment, and hot work restrictions.

• Work restrictions during Red Flag Warnings and High to Extreme Fire Danger days.

• All internal combustion engines used at the Project site shall be equipped with spark arrestors. Spark arrestors shall be in good working order.

• Once new access roads have been cut and initial fencing completed, light trucks and cars shall be used only on roads where the roadway is cleared of vegetation. Mufflers on all cars and light trucks shall be maintained in good working order.

• Fire rules shall be posted on the Project bulletin board at the contractor's field office and areas visible to employees.

• Equipment parking areas and small stationary engine sites shall be cleared of all flam-mable materials.

• Smoking shall be prohibited in all vegetated areas and within 50 feet of combustible materials storage and shall be limited to paved areas or areas cleared of all vegetation.

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• Each construction site (if construction occurs simultaneously at various locations) shall be equipped with fire extinguishers and fire-fighting equipment sufficient to extinguish small fires.

• The Project owner shall coordinate with BLM and RCFD to create a training com-ponent for emergency first responders to prepare for specialized emergency incidents that may occur at the Project site, including incidents such as fire or explosion at or with the BESS.

• The plan shall include information about the type of BESS technology on site, potential hazards, and procedures for disconnecting or shutting down the BESS in case of fire or to reduce the chance of fire.

• All construction workers, plant personnel, and maintenance workers visiting the plant and/or transmission lines to perform maintenance activities shall receive training on fire prevention procedures, the proper use of firefighting equipment, and procedures to be followed in the event of a fire. Training records shall be maintained and be available for review by BLM and RCFD. Fire prevention procedures shall be included in the Project's Worker Environmental Awareness Program.

• Vegetation near all solar panel arrays, ancillary equipment, and access roads shall be controlled through periodic cutting and spraying of weeds, in accordance with the Weed Management Plan.

• BLM and RCFD shall be consulted during plan preparation and fire safety measures recommended by these agencies included in the plan.

• The plan shall list fire prevention procedures and specific emergency response and evac-uation measures that shall be required to be followed during emergency situations.

• All on-site employees shall participate in annual fire prevention and response training exercises with the BLM and RCFD.

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• The plan shall list all applicable wildland fire management plans and policies estab-lished by state and local agencies and demonstrate how the Project will comply with these requirements.

• The Project owner shall designate an emergency services coordinator from among the full-time on-site employees who shall perform routine patrols of the site during the fire season equipped with a portable fire extinguisher and communications equipment. The Project owner shall notify BLM and RCFD of the name and contact information of the current emergency services coordinator in the event of any change.

• Remote monitoring of all major electrical equipment (transformers and inverters) will screen for unusual operating conditions. Higher than nominal temperatures, for exam-ple, can be compared with other operational factors to indicate the potential for over-heating which under certain conditions could precipitate a fire. Units could then be shut down or generation curtailed remotely until corrective actions are taken.

• Fires ignited on site shall be immediately reported to BLM and RCFD.

• The engineering, procurement, and construction contract(s) for the Project shall pro-vide reference to or clearly state the requirements of this mitigation measure.

• The Project owner must provide the Fire Management and Prevention Plan to BLM for review and approval and to RCFD for review and comment before construction.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA.

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Impact: Emergency Response Plan (FIRE-3)

Threshold: The proposed project would not require the installation and maintenance of infrastructure such as roads, fuel breaks, emergency water sources, power lines, or other utilities that may exacerbate the risk of fire with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

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Construction of the solar facility would result in the installation of infrastructure to support the generation, delivery, and storage of electricity. Prior to construction, vegetation would be mowed, grubbed, rolled, cut, or cleared. The reduced amount of already-sparse vegetation would minimize the potential ignition of vegetation. Construction activities would involve the use of heavy construction equipment and vehicles to install the solar facility's components over the course of approximately 20 months. Electrical components that may pose a risk of fire include the electrical distribution line, transformers, batteries, substations, gen-tie line, and the switchyard. Because these components are located in a sparsely vegetated and remote location away from densely populated areas, the potential for faulty electrical equipment to exacerbate fire risks for populated areas is minimal. Additionally, assembly and installation of the electrical equipment would meet existing electrical and safety standards. The solar PV panels be assembled from noncombustible, nonflammable materials and would not ignite a potential wildfire or exacerbate the spread of wildfires. Removing potentially flammable materials and vegetation within the gen-tie construction corridor would reduce the risk of wildfire during construction. The gen- tie transmission structures would not exacerbate fire risks due to the nonflammable nature of their concrete foundations. Therefore, impacts are less than significant.

Regular O&M activities would ensure that all equipment is in good working order, thereby minimizing accidents and potential fires. Additionally, fire safety measures would be implemented during operations, including having portable firefighting equipment and extinguishers, sprinkler systems, and a fire suppression system on site as well as additional water for use at the O&M facility. These safety measures, along with the Fire Management

and Prevention Plan, would provide safe operating conditions and fire response protocols to minimize the risk of wildfire. As such, operation of the solar facility would have a less-thansignificant impact regarding the installation of utilities that may exacerbate fire risk and result in temporary impacts.

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The BESS would be housed in enclosures that would contain potential accidental fires and prevent them from spreading and causing further damage. The enclosures would also have remote communication systems that monitor for internal conditions such as temperature and smoke and have automatic fire suppression systems. The BESS would be certified to UL 9540, comply with all requirements of the current CFC, and would require approval by the State Fire Marshal. The Project would comply with DRECP CMAs related to fire safety. To further improve fire safety, MM FIRE-1 would specify measures to be added to the Fire Management and Prevention Plan to include information about the type of BESS technology on site, potential hazards, and procedures for disconnecting or shutting down the BESS in case of an accidental fire. It also includes a training component for emergency first responders to prepare for incidents such as fire or explosion at or with the BESS Therefore, impacts would be less than significant with mitigation.

Operation of the gen-tie transmission line has a low likelihood of causing or exacerbating a wildfire due to the sparsely vegetated areas immediately surrounding the gen-tie structures. However, sparks and resulting fires have historically occurred along transmission lines due to foreign objects (e.g., falling trees, birds, mylar balloons, flammable debris carried by wind, etc.) contacting conductors or insulators. During operations, gen-tie line inspections would ensure that gen-tie lines and structures are not damaged and would minimize the risk of electrical fires. Implementation of DRECP CMAs and MM FIRE-1 would ensure activities such as vegetation clearing, idling restrictions, and worker training would further reduce the risk of fire associated with operation of the gen-tie line to a level of less than significant.

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Fire safety measures would be implemented to ensure that decommissioning of the Project components is implemented in accordance with applicable fire protection and environmental, health, and safety requirements. As such, decommissioning of the Project would result in less-than-significant impacts. After the Project is decommissioned, no power lines, BESS, or other components with a fire risk would exist at the site and no impact would occur once the Project is decommissioned. (EIR pp. 3.19-9 to 3.19-11)

Mitigation Measures:

MM FIRE-1 (Fire Safety) Full text under Wildfire.

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DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA.

Impact: Emergency Response Plan (FIRE-4)

Threshold: The proposed project would not expose people and structures to risks of loss, injury, or death involving wildfires with implementation of mitigation measures.

Findings of Fact, Less Than Significant with Mitigation Measures:

The proposed Project is not located in a high or very high FHSZ, and thus would not be in an area prone to wildfires. The Project is located in a moderate zone, which typically are wildland supporting areas of low fire frequency and relatively modest fire behavior. Due to the presence of sparse vegetation, relatively flat topography, the remote location of the Project, and its desert setting, the potential for the Project to expose people and structures to wildfire risks is low. During construction of the solar facility, BESS, and gen-tie line, vegetation would be managed on site to reduce the risk of fire. All electrical components such as the gen-tie line, power lines, inverters, transformers, and BESS would be constructed on nonflammable concrete foundation struc-tures or steel skids and tested prior to use for safe operations During construction, a fire suppression system would be placed in service if required by the County or BLM Fire. Fire extinguishers and other portable firefighting equipment would be available on site, as well as water for use at the O&M facility. Wellmaintained firefighting equipment would increase the likelihood that any accidental fires that occur during construction would be effectively extinguished. MM FIRE-1 would include measures requiring fire prevention, emergency response, and evacuation to ensure the safety of construction workers.

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The Project is located in both LRAs and FRAs, and as such, RCFD and BLM Fire would be responsible for fighting fires at the Project site. RCFD Station 49 is located approximately 0.4 mile south of the Project site and would be the first responder for the Project in the event of a fire. As required in MM FIRE-1, the Project owner would coordinate with both BLM and RCFD to train emergency first responders to prepare for specialized emergency incidents at the site, including fire or explosion at or within the BESS area. Coordination with the local fire department would ensure timely emergency response that would minimize the risk of loss, injury, or death during construction. Due to the Project's desert setting, scarce vegetation, fire safety measures, and coordination with CRFD and BLM FIRE, impacts would be less than significant with implementation of mitigation and DRECP CMAs.

Project operations would consist of a minimal number of on-site workers for daily inspections and as-needed repairs. The Project facility would be monitored by both on-site and remote O&M personnel. Fire hazards during operation of the solar facility would be minimal and further reduced with the Fire Management and Prevention Plan, DRECP CMAs, and MM FIRE-1. Implementation of MM FIRE-1 would ensure the impact from operation of the solar facility is less than significant. During a potential wildfire event, operation of the solar facility would not exacerbate a fire or expose workers or nearby residents to fire hazards.

Solar arrays and photovoltaic modules are fire-resistant and would not be susceptible to ignition from fires. In a potential wildfire situation, the panels would be rotated and stowed

in a panel-up position that could slow the spread of a fire. Therefore, during a potential wildfire event, operation of the solar facility would not exacerbate a fire or expose workers or nearby residents to fire hazards.

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The BESS would be housed in electrical enclosures on concrete foundations designed for secondary con-tain-ment. Potential electrical fires would be contained within the enclosures and would not spread beyond them. The BESS would be installed following all applicable design, safety, and fire standards for BESSs. Compliance with design and safety regulations and implementation of MM FIRE-1 would reduce the danger of fires spreading uncontrollably and causing loss, injury, or death. MM FIRE-1 includes a measure to include infor-ma-tion about the type of BESS technology on site, potential hazards, and procedures for discon-necting or shutting down the BESS in case of an accidental fire. The enclosures would have air conditioners or heat exchangers and inverters MM FIRE-1 also includes training and coordination requirements so that emergency first responders are prepared to address battery fires or explosions at the BESS area and are knowledgeable of appropriate firefighting methods for BESS fires. The impact would be less than significant with implementation of mitigation and DRECP CMAs.

The gen-tie line, like the solar facility and BESS, would be located in a desert setting with scattered low-growing vegetation. The gen-tie structures would be constructed on concrete foundations such that the areas immediately surrounding the poles would not be flammable. Portions of the gen-tie line may also be placed underground, which would further reduce the risk of fire. Regular inspections and maintenance of electrical components and trimming of vegetation would ensure all components are in good working order and that vegetation fuel load is minimal. Drone inspections in compliance with NERC Transmission Vegetation Management requirements would ensure that gen-tie lines and structures are not damaged and would minimize the risk of electrical fires. Implementation of DRECP CMAs and MM FIRE-1 would ensure that workers and emergency first responders are trained to properly handle accidental fires, and would further reduce the risks associated with fires to a level of

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less than significant.

Once the Project is decommissioned, no power lines, BESS, or other components with a fire risk would exist at the site. The site would not pose a risk of loss, injury, or death involving wildfires. Therefore, no impact would occur once the Project is decommissioned.

(EIR pp. 3.19-11 to 3.19-13)

Mitigation Measures:

MM FIRE-1 (Fire Safety) Full text under Wildfire.

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DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with each CMA.

BE IT FURTHER RESOLVED by the Board of Supervisors that no feasible mitigation measures have been identified that will mitigate the following impacts to a level of less than significant. Specific economic, legal, social, technological, or other considerations make infeasible other mitigation measures or project alternatives identified in the Final EIR for the reasons set forth below in the Project Alternatives. Thus, the following impacts are considered to be significant and unavoidable. These significant and unavoidable impacts are overridden by Project benefits as set forth in the Statement of Overriding Considerations.

EIR No. SCH2022110240 evaluated impacts of the Proposed Project as defined in Section ES.3 and Chapter 2 of the EIR. The Applicant's preferred project is Alternative B: Reduced Footprint Alternative, as described in Section 2.8.3 of the EIR ("Alternative B"). Alternative B is similar to the Proposed Project but would remove approximately 50 acres of solar panels, move the on-site substation and BESS at least 0.7 mile to the northeast and farther from the Lake Tamarisk community, and would increase the length of the gen-tie line by approximately 0.8 mile. Because Alternative has a smaller footprint but otherwise similar characteristics and impacts as described in Table 5-1 of the EIR, the following findings with respect to the Proposed Project are also applicable to Alternative B.

A. <u>Aesthetics</u>

Impact: Visual Quality (AES-1)

Threshold: The Project would substantially degrade the existing visual character or quality of public views of the site and its surroundings with implementation of mitigation measures. Findings of Fact, Operations and Maintenance: Significant and Unavoidable: During Operations and Maintenance, the Project's visible contrast associated with visually discordant structural features and industrial character would substantially degrade the existing visual character or quality of the site and its surroundings as follows:

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- Seven representative KOPs were selected from the identified sensitive viewpoints. The Project was determined to have a moderate to high range of visual change for each viewpoint, aside from KOP 7, which has a low to moderate rating for visual change.
- The resulting visual change would be adverse and unavoidable in the immediate vicinity of the Project, including viewpoints from Alligator Rock ACEC and the Lake Tamarisk Desert Resort, as well as from travelers on I-10 and SR-177.
- The Project would constitute a visually co-dominant feature in the landscape and would attract the attention of observers from all viewpoints, except KOP 7. View blockage of higher value landscape features (e.g., valley floor and vegetation) would vary from moderate to high. The visual changes would result in a significant aesthetics impact under significance criterion AES-1. Implementation of MMs AES1 (Surface Treatment of Project Structures and Buildings) and AES2 (Project Design) and compliance with DRECP CMAs LUPA BIO-7, DFA-VPL-VRM-2, and DFA-VPL-VRM-3 would reduce the visual contrast associated with visually discordant structural features and industrial character, though not sufficiently to reduce the aesthetic impact to a level that would be less than significant. Therefore, the resulting visual impact would remain significant and unavoidable. (EIR pp. 3.2-17 to 3.2-27).

Mitigation Measures:

MM BIO--5 (Vegetation Resources Management Plan) Full text under Biological

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MM AQ-1 (Fugitive Dust Control Plan) Full text under Air Quality.

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MM AES-1 (Surface Treatment of Project Structures and Buildings) Full text under Aesthetic Resources.

MM AES-2 (Project Design) Fuli text under Aesthetic Resources.

MM AES-3 (Night Lighting Management Plan) Full text under Aesthetic Resources.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. CMAs specifically applicable under AES-1 are detailed at FEIR p 3.2-28.

Impact: Visual Quality (AES-3)

Threshold: The Project would result in the creation of an aesthetically offensive site open to public view with implementation of mitigation measures.

Findings of Fact, Operations and Maintenance: Significant and Unavoidable:

As with operation and maintenance impacts discussed under Impact AES-1, above, the Project's high visual change would result in a significant aesthetics impact under significance criterion AES-3. Additionally, the O&M impacts would remain significant and unavoidable even with implementation of mitigation and DRECP CMA compliance. See finding above for Impact AES-1

Mitigation Measures:

MM BIO-5 (Vegetation Resources Management Plan) Full text under Biological Resources.

MM AQ-1 (Fugitive Dust Control Plan) Full text under Air Quality.

MM AES-1 (Surface Treatment of Project Structures and Buildings) Full text under Aesthetic Resources.

MM AES-2 (Project Design) Full text under Aesthetic Resources.

MM AES-3 (Night Lighting Management Plan) Full text under Aesthetic Resources.

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DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. CMAs specifically applicable under AES-3 are detailed at FEIR p 3.2-32.

BE IT FURTHER RESOLVED by the Board of Supervisors that it has considered, consistent with CEQA's requirements, the impacts of the Project together with all other pending or approved projects within the affected area for each resource area, and makes the following findings. EIR No. SCH2022110240 evaluated impacts of the Proposed Project as defined in Section ES.3 and Chapter 2 of the EIR. The Applicant's preferred project is Alternative B: Reduced Footprint Alternative, as described in Section 2.8.3 of the EIR ("Alternative B"). Alternative B is similar to the Proposed Project but would remove approximately 50 acres of solar panels, move the on-site substation and BESS at least 0.7 mile to the northeast and farther from the Lake Tamarisk community, and would increase the length of the gen-tie line by approximately 0.8 mile. Because Alternative has a smaller footprint but otherwise similar characteristics and impacts as described in Table 5-1 of the EIR, the following findings with respect to the Proposed Project are also applicable to Alternative B.

A. *I*

Aesthetics Cumulative Impacts

Cumulative Impact Finding: Cumulatively Considerable.

Although numerous existing cultural modifications are visible along the I 10 corridor and in the Desert Center area of the Chuckwalla Valley (transmission lines; substations; pipelines; solar projects; communication towers; 4 wheel drive tracks; widely scattered commercial buildings, dilapidated structures, and roadside signs; and a few agricultural operations), the grand scale of the open desert panoramas impart an overall general impression of a historically natural-appearing desert landscape that is now in transition to that of a developed energy zone characterized by numerous solar energy facilities, either existing or under construction. The cumulative scenario includes many large solar projects and transmission lines whose scale and pervasiveness are having adverse cumulative effects. If all the projects are implemented, they

would substantially degrade the visual character and general scenic appeal of the existing landscape, resulting in the conversion of a relatively undeveloped desert landscape into a more industrialized appearance.

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In some viewing cases, the visibility and apparent scale of the projects is (for existing and under construction), or would be (for probable future), diminished somewhat by favorable topographic relationships and vegetative screening. For other viewing opportunities, some projects appear (existing and under construction), or would appear (probable future), reduced in visual prominence due to their viewing distances and low angle of view. In still other cases, projects blend (existing and under construction), or would blend (probable future) in with the vegetation or horizon line of the valley floor, and the rugged mountains would remain the dominant visual features in the landscape.

KOP 3 on Alligator Rock provides a slightly elevated view overlooking the broader Chuckwalla Valley and numerous solar projects. From KOP 3, the Oberon project, which began commercial operation in fall 2023, is located south and southeast of the Project and appears in the foreground of views toward the Project. The impact assessment from this location would also be applicable to the lower elevations of the Chuckwalla Mountains that would be encompassed by the Chuckwalla NM. Also, from various elevated locations within JTNP, the proposed Project would be visible along with one or more of the cumulative projects. For example, from the Buzzard Springs area and adjacent wilderness, the Project would be visible along with the existing (and under construction) Desert Sunlight, Desert Harvest, Oberon, Athos, Victory Pass, Arica, and Palen solar projects, and the probable future Sapphire, Lycan, and Redonda solar projects, as well as the SCE Colorado River-Red Bluff 500 kV #1 Line Upgrade and Devers-Red Bluff 500 kV #1 and #2 Line Upgrade (depending on work required for the line upgrades). Similarly, the proposed Project, along with multiple cumulative projects, would be visible from portions of the Eagle and Coxcomb mountains in JTNP, the Palen-McCoy Wilderness to the east, the Sheephole Valley Wilderness to the north, and the Chuckwalla Mountains Wilderness

to the south. However, it should be noted that these cumulative impacts would be experienced at greater viewing distances ranging from seven to 25 miles.

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As a result, the proposed Project, in combination with the 13 past and present local energy projects, would contribute to significant cumulative visual impacts when viewed by sensitive viewing populations along I-10 and SR- 177, from nearby residences, from portions of JTNP, and in the surrounding mountains and wilderness. The Project's contribution to the impacts would be from the introduction of substantial visual contrast associated with discordant geometric patterns in the landscape; the introduction of large-scale, built facilities with prominent industrial character; the creation of unnatural lines of demarcation in the valley floor landscape and inconsistent color contrasts; and from the addition of visible night lighting within the broader Chuckwalla Valley. For many travelers along I-10, the scenic experience would be substantially degraded due to the perceived "industrialization" of the landscape. The impacts from the adjacent solar projects would be similar to those of the Proposed Project and the applicable mitigation measures would be similar or the same. However, in all cases, the implementation of these mitigation measures, individually or collectively, would be insufficient to reduce the resulting impacts to levels that would be less than significant.

Effective implementation of MM AES-1 (Surface Treatment of Project Structures and Buildings), MM AES-2 (Project Design), MM AES-3 (Night Lighting Management), and MM BIO-5 (Vegetation Resources Management Plan) would reduce the severity of the Project's contribution to the cumulative visual effects, though the Project's contribution would still be cumulatively considerable. MM AES-1 would reduce structural surface glare and help the Project structures blend better with the surrounding landscape. MM AES-2 would help to retain vegetative screening, which would reduce overall Project visibility and would reduce structural contrast and glare. MM AES-3 would result in better management and control of night lighting and would reduce night lighting impacts on Dark Sky viewing, nearby and adjacent roads (motorists), and nearby residences. Compliance with DRECP CMAs LUPA BIO-7, LUPA-AIR-5, LUPA BIO-13, DFA-VPL-VRM-2, and DFA-VPL-VRM-3 would place substantially similar

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requirements on Project development on BLM-administered land as those included in MMs AES-1, AES-2, AES-3, and BIO-5, and would therefore, similarly reduce impacts. Even with implementation of mitigation measures, there would be significant cumulative visual impacts when viewed by sensitive viewing populations along I-10 and SR-177, from nearby residences, from portions of JTNP, and in the surrounding mountains and wilderness. The Project would make a considerable contribution to these visual impacts. (EIR pp. 3.2-36 and 3.2-37). Mitigation Measures: MM AES-1 (Surface Treatment of Project Structures and Buildings) Full text under Aesthetic Resources. MM AES-2 (Project Design) Full text under Aesthetic Resources.

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MM AES-3 (Night Lighting Management Plan) Full text under Aesthetic Resources.

MM BIO-5 (Vegetation Resources Management Plan) Full text under Biological Resources. DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. CMAs specifically applicable under cumulative aesthetic impacts are detailed at FEIR p 3.2-40.

B. Agriculture and Forestry Resources Cumulative Impacts

Cumulative Impact Finding: Not Cumulatively Considerable.

Implementation of the proposed Project, in combination with other projects in the Desert Center area, could include land zoned for agricultural uses that would be utilized for non-agricultural uses or would cause development of non-agricultural uses within 300 feet of agriculturally zoned property. However, with the issuance of a CUP, developments under the cumulative scenario constitute allowed uses within Agricultural zones that have been found to be consistent with zoning. The cancellation of the Williamson Act contracts and removal of lands within the project site from County agricultural preserves would alleviate any potential conflicts between proposed

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project uses of land and Williamson Act or County Agricultural Preserve requirements. The proposed Project would not involve other changes in the existing environment that may result in the conversion of other agricultural lands to non-agricultural uses. Further, because Project parcels zoned for agricultural use have not actually been used for agricultural purposes for many vears, the Project also would not result in any change in current use from agriculture to nonagricultural uses. In addition, there are no forest lands or timber resources in the Project area. Neither the proposed Project nor the cumulative projects would convert any designated Farmland to non-agricultural uses. After the Project and surrounding cumulative projects are decommissioned, the sites would be available to be returned to agricultural uses. As shown in Figure 3.1-1, many of the current and reasonably foreseeable projects are in land identified as Development Focus Areas (DFAs) under the DRECP. Acknowledging that the overall trend for development of solar projects in the Desert Center area could lead to cumulative impacts on agriculture, the region has been designated a DRECP DFA. Current agricultural uses could be impaired by new renewable energy developments with related transmission lines. However, the impairment or potential loss of farmland would not be a significant cumulative impact because the Desert Center region is not classified under recognized agricultural land evaluation approaches such as the DOC FMMP's Important Farmland Map series. Further, active agriculture in the Desert Center area is already quite limited due to reductions in agriculture that have occurred over the last several decades. Overall, the proposed Project's impacts combined with those of nearby projects would not result in a cumulatively significant impact to agricultural resources. The Project's incremental contribution to agriculture and forestry impacts would not be cumulatively considerable. No mitigation is required. (EIR p. 3.3-10 and 3.3-11).

7-9

C. Air Quality Cumulative Impacts

Cumulative Impact Finding: Not Cumulatively Considerable.

The analysis of project impacts for Impact AQ-2, above, is inherently a cumulative analysis. The analysis considers the cumulative effects of past projects as contributing to existing

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nonattainment conditions and addresses whether the Project would result in a cumulatively considerable net increase of any criteria pollutant for which the Project region ins non-attainment under an applicable federal or state ambient air quality standard. The analysis in Impact AQ-2 follows the methodology recommended by SCAQMD for that evaluation. The Project would increase the generation of criteria air pollutants in the region consistent with population, housing, and employment trends (Impact AQ-1). Individual projects are required to implement feasible mitigation measures for criteria air pollutants emissions if the project emissions exceed the thresholds of significance adopted by the SCAQMD. The Project includes mitigation measures to reduce short-term construction of criteria air pollutants and precursors. Operational emissions from the Project would not exceed SCAQMD thresholds, and no mitigation would be required. The Project, as well as all related projects, would also be subject to SCAQMD regulations and regulations promulgated by the State of California that are intended to reduce air quality emissions. The construction-phase emissions related to the proposed Project would likely occur concurrently with other related projects in the Mojave Desert Air Basin and would contribute to the adverse effects with other related projects to result in a cumulative impact to air quality that is significant. The incremental contribution of the proposed Project to the cumulative impact would be reduced by implementing MM AQ-1 (Fugitive Dust Control Plan) and MM AQ-2 (Control On-Site Off-Road Equipment Emissions) and applicable DRECP CMAs, as mitigation for the project-specific effects described in Impact AQ-2 and Impact AQ-3. Because construction-related air pollutant emissions would be mitigated below SCAQMD thresholds and would entirely cease after construction, within approximately 20 months, the construction emissions would not cause substantial long-term cumulative impacts. The incremental contribution of the proposed Project to the cumulative air quality impact would be reduced to the extent feasible during construction and would not be cumulatively considerable. (EIR p. 3.4-15).

7-9

Mitigation Measures:

MM AQ-1 (Fugitive Dust Control Plan) Full text under Air Quality.MM AQ-2 (Control On-Site Off-Road Equipment Emissions) Full text under Air Quality.

7-9

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA.

D. Biological Resources Cumulative Impacts

Cumulative Impact Finding: Not Cumulatively Considerable.

Cumulative effects for biological resources apply to both plant and wildlife species and consider distribution, habitat availability, designated critical habitat, local rarity or commonness, and likely responses to a projects' effects for each species. Impacts from individual projects include construction, operation, and decommissioning and the timeframe for these activities will vary by project and may or may not overlap. The Project could contribute to cumulative effects to biological resources with the initiation of on-site activities and continuing throughout the O&M phase, through final decommissioning.

As the number of solar projects and other development increase and land use changes occur in the region, the cumulative impacts to biological resources, such as habitat loss also increase. The analysis of cumulative effects considered the current and foreseeable future projects as identified in the FEIR and cumulative impacts of the projects on biological resources identified in the cumulative scenario would be cumulatively significant. This analysis presumed that Mitigation Measures MM BIO-1 through BIO-14 would be implemented on private land within the Project site and that the Project would implement DRECP CMAs on BLM lands. With avoidance through Project design, mitigation measures, and CMAs, the Project's contribution to cumulative impacts would not be cumulatively considerable.

<u>Vegetation and Habitat</u>. Construction-related impacts of the cumulative projects would temporarily increase noise and activities, dust, and other habitat disturbances throughout the

region. Longer-term land use conversion would contribute to reduced habitat availability and increased habitat fragmentation. The effects of the Project would contribute incrementally to the cumulative significant impacts to vegetation and habitat.

7-9

Direct and indirect impacts to vegetation and habitat would be minimized by implementing MMs BIO-1 through BIO-5, which minimize direct disturbance, loss, degradation, and contamination of habitat by using qualified and trained staff, keeping work activities within designated work areas, and implementing low-impact site preparation, re-vegetation, and invasives management. Avoidance of desert dry wash woodland with a 200-foot buffer (except for minor incursions for linear features and where there is existing intervening infrastructure on private land), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7) would preserve habitat values and offset habitat loss.

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with CMAs, which would be required on BLM lands and are described in detail in Impact BIO-1, would mitigate impacts to less than significant.

Similar to the requirements of the MMs that would be implemented on private land within the Project site, CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would prevent direct removal of vegetation and habitat and prevent degradation from disturbance in adjacent areas. Compensation for impacts to native habitats would offset loss.

With implementation of the mitigation measures on private lands and CMAs on BLM land, the proposed Project's contribution to cumulative impacts to vegetation and habitat would not be cumulatively considerable.

7-9

<u>Sensitive Habitat and Jurisdictional Waters of the State</u>. Some of the cumulative projects would impact desert dry wash woodland with minor incursions and desert pavement. The proposed Project would was designed to avoid desert dry wash woodland, except for minor incursions. Indirect effects from the Easley Project in adjacent habitats would be minimized with a 200-foot setback buffer (except for minor incursion or where there is existing intervening infrastructure on private land) from desert dry wash woodland habitat on both private and public lands.

The Project would impact unvegetated ephemeral dry wash, which meets criteria as jurisdictional waters of the State. The cumulative projects would have qualitatively similar impacts to unvegetated ephemeral dry wash, due to the nature of the area and the large washes that cross it, resulting in a significant cumulative impact. The effects of the proposed Project would contribute incrementally to the cumulative impacts to jurisdictional waters of the State. This incremental contribution would not be considerable as the Project has been designed to avoid, minimize, and offset impacts to jurisdictional waters. Direct and indirect impacts during construction would be minimized by implementing MMs BIO-1 through BIO-5 and MM BIO-14.

The Project is required to comply with DRECP CMAs for all Project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with the CMAs, which would be required on BLM lands, as described in Impact BIO-1 and Impact BIO-5, would mitigate impacts to less than significant.

Similar to the requirements of the MMs that would be implemented on private land within the Project site, CMAs require qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed

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management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot buffer, except for minor incursions as allowed by CMAs, would prevent direct removal of sensitive habitat and jurisdictional features, and prevent degradation of habitat and waters in adjacent areas. CMA requirements for compensation for impacts to native habitats, including sensitive habitats and jurisdictional waters, would offset loss. BMPs for fueling, vehicle and equipment maintenance, spill cleanup, erosion control, and stabilizing disturbed areas would prevent sediment and toxic and hazardous materials from entering and degrading streams and washes and sensitive habitats.

7-9

With implementation of the mitigation measures on private lands and CMAs on BLM land, the proposed Project's contribution to cumulative impacts to sensitive habitats and jurisdictional waters would not be cumulatively considerable.

Special-status plants. The Project could affect several special-status plants identified under Impact BIO-1. No threatened or endangered plants were identified on the site. The past, present, and future projects in the region would have similar or greater impacts to special-status plants which would result in a cumulatively significant impact to regional special-status plants. The contribution of the Project itself would not be considerable because of the limited number of special-status plant species on site, and the implementation of mitigation measures on private lands and DRECP CMAs on BLM lands.

Direct and indirect impacts to special-status plants on private land in the Project site would be minimized by implementing MMs BIO-1 through BIO-5, which minimize direct disturbance, loss, degradation, and contamination of habitat by using qualified and trained staff, keeping work activities within designated work areas, and implementing re-vegetation and invasives management. By implementing seed and plant salvage, seeding and revegetation, soil decompaction, erosion control, and non-native control in disturbance areas, soils would be stabilized, native vegetation would be re-established, and post-construction habitat values would be improved in the Project area to support recovery of special-status plants.

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The Project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations in any ROW Grant issued for the Project. Compliance with the CMAs, which would be required on BLM lands and are described in detail in Impact BIO-1, would mitigate impacts to less than significant.

7-9

With implementation of the mitigation measures on private lands and CMAs on BLMadministered land, the proposed Project's contribution to cumulative impacts to special-status plants would not be cumulatively considerable.

<u>Special-status wildlife</u>. Cumulative projects could result in direct impacts to special-status wildlife including injury or mortality resulting from crushing; displacement; loss of suitable habitat, burrows, dens, or nests; attraction of predators to food and water subsidies; encounters with work site hazards such as store materials, trenches, pits, or water tanks; vehicle strikes; and collision or electrocution from Project components. Noise and lighting could affect wildlife in adjacent habitats by disrupting foraging, breeding, sheltering, and other activities; or may cause wildlife to avoid otherwise suitable habitat surrounding the site. Habitat degradation would result in loss of suitable habitat for wildlife species. Herbicides that persist on site could injure wildlife that ingest target plants or come into contact with herbicides (e.g., by digging or rolling in treated soil).

Direct and indirect impacts to special-status wildlife on private land in the Project site would be minimized by implementing MMs BIO-1 through BIO-5, which minimize direct disturbance, loss, degradation, and contamination of habitat by using qualified and trained staff, keeping work activities within designated work areas, and implementing re-vegetation and invasives management. By implementing seed and plant salvage, seeding and revegetation, soil decompaction, erosion control, and non-native control in disturbance areas, soils would be stabilized, native vegetation would be re-established, and post-construction habitat values would be improved in the Project area to support recovery of special-status wildlife. MM BIO-6 would increase detection of wildlife that require avoidance in Project areas by requiring site inspections

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and managing hazards. Managing food and water subsidies would prevent attraction of predators to the Project site where there is increased likelihood of disturbance.

7-9

The Project has been designed to avoid desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation for desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1, which would preserve habitat values for special-status wildlife and offset habitat loss.

The Project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations in any ROW Grant issued for the Project. Compliance with the CMAs, which would be required on BLM lands, as described in Impacts BIO-1 and BIO-2, would mitigate impacts to less than significant. Similar to the requirements of the MMs that would be implemented on private land within the Project site, these CMAs reduce impacts to wildlife and habitat by requiring qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values for wildlife. Avoidance of desert dry wash woodland with a 200-foot setback buffer would prevent direct removal of sensitive habitat used by many wildlife species for foraging, shelter, breeding, and movement through the Project vicinity. A 200-foot setback would reduce degradation from disturbance in adjacent areas.

With implementation of the mitigation measures on private lands and CMAs on BLM land, the proposed Project's contribution to cumulative impacts to special-status wildlife would not be cumulatively considerable.

<u>Crotch bumble bee</u>. Suitable habitat for Crotch bumble bee is present on the Project site; however, the Easley site is east of the current range. The easternmost portion of the gen-tie line

on the Oberon Project site overlaps with the historic range. Cumulative projects would impact similar desert scrub habitat, which may have potentially suitable habitat near the historic range. In addition to MMs BIO-1 to MM BIO-5 previously listed to minimize impacts to Vegetation and Habitat, MM BIO-6 (Wildlife Protection) includes specific measures to protect Crotch bumble bee, including worker training on identifying individuals, and adaptive management in coordination with CDFW if individuals or nests are detected during pre-construction surveys. Any nests detected would be buffered by the Lead Biologist and avoided until coordination with CDFW is completed. These measures would identify potential instances of Crotch bumble bee in the Project area and protect individuals from disturbance.

7-9

No additional species-specific CMAs are applicable to Crotch bumble bee beyond those previously described for all special-status wildlife species.

With implementation of the mitigation measures on private lands and CMAs on BLM land, the proposed Project's contribution to cumulative impacts to Crotch bumble bee would not be cumulatively considerable.

Monarch butterfly. Suitable foraging and breeding habitat for monarch butterfly is present on the Project site; no overwintering habitat is present. Cumulative projects would impact similar desert scrub habitat, which may provide potentially suitable habitat for monarchs. However, the site is not known to serve a significant role in breeding or migration for the species, and the surrounding Chuckwalla Valley provides vast stretches of desert land with similar or higher quality habitat the species may use. As a result, impacts to the species are not expected to be significant. MMs BIO-1 to BIO-5, previously listed for Vegetation and Habitat, would minimize impacts to suitable habitat and would re-vegetate disturbance areas with seed from the Project site, including monarch host plants. MM BIO-6 (Wildlife Protection) includes specific measures to protect wildlife from work site hazards. With implementation of the mitigation measures on private lands and CMAs on BLM land, the already less-than-significant cumulative impacts to the species would be further reduced, and the proposed Project's contribution to cumulative impacts to monarch butterfly would not be cumulatively considerable.

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<u>Desert tortoise</u>. Suitable habitat is present throughout the southwestern portion of the Project area. The gen-tie line crosses through the adjacent Oberon Project site, which overlaps with a fragmented portion of USFWS-designated critical habitat. Desert tortoise sign (Class 4, Class 5 carcasses) were observed in and around desert dry wash woodland on the Project site. Most of the past, present, and foreseeable future projects in the vicinity would impact similar desert tortoise habitat and many of them could directly affect desert tortoises. Due to the number and size of the cumulative projects they would result in a cumulatively significant impact. Mitigation measures identified in this EIR under Impact BIO-2, implementation of DRECP CMAs on BLM-administered land, and other permitting requirements would prevent lethal take of desert tortoise and avoid and minimize impacts to its habitat on the Easley Project site.

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The surrounding projects would be subject to similar CEQA and/or NEPA mitigation measures and permitting requirements, which would have been developed to minimize impacts to habitat and prevent lethal take of desert tortoise. In addition, if any live desert tortoises are found on the Easley and or Oberon sites, they would be relocated or translocated in accordance with the Easley Desert Tortoise Protection and Translocation Plan (MM BIO-7) (EIR Appendix P) and the Oberon Desert Tortoise Protection and Translocation Plan (Aspen, 2022). Desert tortoises would be moved offsite when encountered during both construction and operation if suitable habitat is not available nearby. Compensation for impacts to suitable desert tortoise habitat (creosote bush scrub) at a minimum ratio of 1:1, and compensation for impacts to desert tortoise habitat at a ratio of 5:1, would offset habitat loss (MM BIO-7). Implementation of a Wildlife Protection and Relocation Plan (MM BIO-13) would protect individuals and burrows with buffers to avoid direct injury and mortality. Passive exclusion of individuals would prevent entrapment during construction, avoid the need for handling, and avoid direct injury and mortality. Collapsing inactive burrows prevents further use to avoid future risk to the species from construction in the Project area. By following agency protocols for tortoise surveying, handling, and relocating, and by using qualified and permitted biological staff, individual desert tortoise would be detected for avoidance and monitoring, and mortality and injury during

construction, handling, and relocation would be reduced. By implementing the associated Raven Management Plan (MM BIO-7) (Appendix Q), attractants for opportunities predators, such as food, water, trash, roadkill, and perching opportunities, would be identified, managed, and reduced.

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The Project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations in any ROW Grant issued for the Project. Similar to the mitigation measures on private lands, these measures are expected to effectively avoid lethal take of desert tortoise by avoiding disturbance of individuals, protecting them from work site hazards, identifying and collapsing empty burrows, and passively excluding them from the Project area.

In compliance with the BLM DRECP CMAs, the Easley, Oberon, Arica, and Victory Pass Projects will avoid suitable desert dry wash woodland habitat with a 200-foot buffer throughout the Project sites, except for minor incursion (LUPA-BIO-3 (Resource Setback Standards), LUPA-BIO-RIPWET-1 (Other Riparian & Wetland Focus Species), LUPA-BIO-SVF-6 (Special Vegetation Features). Future projects on BLM-administered land in the Desert Center area would likewise be subject to the same DRECP CMAs to protect the hydrologic function and species habitat in desert dry wash woodland areas. If approved, the proposed expansion of Joshua Tree National Park and creation of the Chuckwalla National Monument would strengthen and expand protection of critical habitat to the west of Kaiser Road and south of I-10.

With implementation of the mitigation measures on private lands and CMAs on BLM land, and for the reasons provided above, the proposed Project's contribution to cumulative impacts to desert tortoise would not be cumulatively considerable.

<u>Native birds</u>, including special-status passerine birds. Migratory birds are expected to occur throughout the area during construction and O&M. Land use conversion for the Project and any of the cumulative projects would result in habitat loss and degradation, displacement, decreased foraging opportunities, potential disruption or failure of nesting, increased predation, and/or

mortality. Taken together, the projects would result in a cumulatively significant impact for native birds.

7-9

In addition to MMs previously listed for all special-status wildlife, to mitigate effects to native birds on the Easley site, MM BIO-8 (BBCS) requires the development a BBCS Plan that would identify potential hazards to birds and bats during construction and O&M. The Plan (see Appendix M) specifies measures to recognize, minimize, and avoid hazards, describe procedures for reporting and handling dead or injured wildlife, and describe post-construction monitoring and adaptive management for bird and bat mortality. Hazards may include collision, electrocution, territory abandonment, nest and roost site disturbance, habitat loss and fragmentation, disturbance from human presence, and predator subsidies, in accordance with USFWS guidelines (USFWS, 2010). The plan requires provisions for adaptive management to evaluate the death and injury of birds that are detected, based on the results of similar monitoring at other solar project sites in the vicinity. By implementing the requirements of the BBCS, injury and mortality from work site and Project related risks, and operation of the solar facilities, such as collision and electrocution, would be adaptively managed and reduced.

MM BIO-9 would protect nesting birds by implementing a Nesting Bird Management Plan (NBMP) (Appendix O), which requires pre-construction nest surveys and sweeps, establishment of exclusion buffers around active nests and nest monitoring, and agency reporting and adaptive management. Surveys, exclusion buffers, and monitoring would protect nesting birds from direct mortality or injury; avoid direct destruction of nests, eggs, and young; and minimize disturbance of nesting behaviors from construction noise, vibrations, dust, lighting, and increased human presence, which could otherwise result in nest abandonment.

MM BIO-10 (Gen-tie Lines) would require mechanisms in accordance with APLIC standards (APLIC 2006, 2012) to visually warn birds such as permanent markers or bird flight diverters; avoid or minimize use of guy wires; and maintain sufficient distance between all conductors and grounded components to prevent electrocution of large birds. By implementing these design features, injury and mortality from electrocution would be minimized.

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In addition to CMAs previously detailed for all special-status wildlife species, CMAs would be implemented to minimize impacts to native birds on BLM land in the Project site (see EIR p. 3.5-130). By identifying potential hazards to birds and bats during construction and O&M, and monitoring for injury and mortality from work site and Project related hazards such as collision and electrocution, implementation of these CMAs on BLM land would ensure that impacts are adaptively managed and reduced. Protecting nesting birds would avoid direct mortality or injury, destruction of nests, eggs, and young, and disturbance of nesting behaviors from construction. With implementation to cumulative impacts to native bird populations from the proposed solar facilities would not be cumulatively considerable.

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Burrowing owl. Potential impacts of the solar facilities to burrowing owl include habitat loss or degradation and possible injury or mortality if they are present. Other projects in the vicinity include several transmission lines and solar energy projects with similar habitat for burrowing owl. Effects of the other projects would be similar to potential effects of the Project. Together these projects would result in significant impacts including habitat loss and mortality to burrowing owls. In addition to MMs previously listed for all special-status wildlife, MM BIO-11 (Burrowing Owl Avoidance and Relocation) and MM BIO-13 (Wildlife Protection and Relocation Plan) are expected to effectively avoid lethal take of burrowing owls by surveying for individuals according to established protocols, avoiding disturbance of individuals and nests in the Project site and surrounding buffer areas, protecting them from work site hazards, and passively excluding them from the Project area. In addition to the CMAs previously listed for all special-status wildlife species, burrowing owl CMAs would be implemented on BLM land within the Project site to minimize impacts to western burrowing owl which, similar to the mitigation measures implemented on private lands, are expected to avoid take of burrowing owls by surveying per protocols, avoiding disturbance, managing work site hazards, and passively excluding them from the Project area.

The incremental contribution of the proposed Project to the cumulative impacts to burrowing owls, including habitat loss, construction-related mortality, or collision morality, would not be considerable because mitigation measures would be implemented on private lands and CMAs would be implemented on BLM lands, individuals would be relocated to an off-site location prior to construction, and potential collision would be mitigated as described above for native birds.

7-9

<u>Special-status raptors, including golden eagle</u>. Marginal nesting habitat for elf owl is present. The site provides suitable seasonal or year-round foraging habitat for several raptor species, including Swainson's hawk, and is within potential foraging distance of known golden eagle nesting territories. Several raptors are likely to forage infrequently on the solar facility site at any time of year, including winter and migration seasons.

Effects of the other projects in the vicinity would be similar to potential effects of the Project. Cumulatively, these projects could result in significant impact due to habitat loss. In addition to MMs previously listed for all special-status wildlife, MM BIO-8 (Bird and Bat Conservation Strategy), as previously described, requires implementation of a BBCS (Appendix M) to identify, minimize, and avoid Project related hazards to birds and bats, provide procedures for handling and reporting dead and injured wildlife, and describe a strategy for post-construction adaptive management for bird and bat mortality associated with the Project. By implementing the requirements of the BBCS, instances of raptor injury and mortality associated with solar facilities would be adaptively managed and impacts would be minimized. MM BIO-9 (Nesting Bird Management Plan) (Appendix O) requires performing pre-construction nest surveys and implementing buffers and monitoring around active nests, which would protect nesting raptors from disturbance due to increased noise, dust, vibration, and human presence and from direct destruction of nests, eggs, and young.

MM BIO-10 (Gen-tie Lines) would require mechanisms in accordance with APLIC standards (APLIC 2006, 2012) to visually warn birds such as permanent markers or bird flight diverters; avoid or minimize use of guy wires; and maintain sufficient distance between all conductors and

grounded components to prevent electrocution of large birds. By implementing these design features, injury and mortality from electrocution would be minimized.

7-9

In addition to the CMAs previously described for all special-status wildlife species, additional CMAs would be implemented on BLM land within the Project site to minimize impacts to raptors. By identifying potential hazards to birds and bats during construction and O&M, and monitoring for injury and mortality from work site and Project related hazards such as entrapment, collision, and electrocution, implementation of these CMAs on BLM land would ensure that impacts are adaptively managed and reduced. Protecting nesting birds would avoid direct mortality or injury, destruction of nests, eggs, and young, and disturbance of nesting behaviors from construction. Species-specific setbacks would ensure that protected raptors are appropriately buffered to avoid disturbance, injury, or mortality.

The incremental contribution of the proposed Project to the cumulative impacts to special-status raptors would not be considerable, because mitigation measures would be implemented on private lands and CMAs would be implemented on BLM lands, native habitat loss would be minimized and potential hazards would be adaptively managed and mitigated.

<u>Desert kit fox and American badger</u>. Active desert kit fox burrows and American badger burrows occur on the Project site. Both species could use native habitats, wherever prey animals may be present. Both species are expected to occur on the cumulative project sites and loss of the habitat and prey species could result in a significant cumulative impact.

Mitigation measures identified under Impact BIO-1 would minimize habitat loss and prevent or minimize wildlife injury and mortality. In addition to MMs previously listed for all special-status wildlife, MM BIO-12 (Desert Kit Fox and American Badger Relocation) and MM BIO-13 (Wildlife Protection and Relocation Plan) are expected to effectively avoid lethal take of desert kit fox and American badger by performing pre-construction surveys for individuals according to established protocols, avoiding disturbance of individuals and nests in the Project site and surrounding buffer areas, protecting them from work site hazards, and passively excluding them from the Project area. Identification of individuals and avoidance of active dens

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would minimize disturbance of American badger and desert kit fox. Passive exclusion of individuals from dens would prevent entrapment during construction and avoid direct injury and mortality. No additional species-specific CMAs are applicable to desert kit fox and American badger beyond those previously listed for all special-status wildlife species.

7-9

The incremental contribution of the proposed Project to the cumulative impacts to these species would not be considerable because mitigation measures would be implemented on private lands and CMAs would be implemented on BLM lands, individuals would be relocated out of harm's way to an off-site location and native habitat loss would be minimized.

<u>Burro deer</u>. The principal potential impacts to burro deer would be reduced access to dependable irrigation water at agricultural sites. Burro deer are expected to occur on the cumulative projects and loss of the habitat and access to water sources could result in a significant cumulative impact. Mitigation measures previously listed for Vegetation and Habitat (MM BIO-1 to MM BIO-5), avoidance of desert dry wash woodland (except for minor incursions), and compensatory mitigation (MMs BIO-3, MM BIO-7, and MM BIO-14) would minimize habitat loss and impacts to wildlife movement by restricting disturbance to work areas and improving postconstruction habitat.values. No additional species-specific CMAs are applicable to burro deer beyond those previously listed for all special-status wildlife species. The incremental contribution of the proposed Project to the cumulative impacts to burro deer would not be considerable because mitigation measures would be implemented on private lands and CMAs would be implemented on BLM lands, no take would occur, and desert dry wash woodland used for wildlife movement would be avoided.

<u>Special-status bats</u>. Construction of the Project could adversely impact special-status bats through the conversion of desert shrubland foraging habitat. Desert dry wash woodland that may support limited roosting sites would be avoided. Removal of those features could disturb, injure, or kill bats. Mitigation measures identified under Impact BIO-1 would minimize habitat loss, inspect structures and remove wildlife or allow wildlife to escape prior to demolition, and require pre-construction surveys or scheduling of tree removal outside the bat maternal roosting season.

In addition to MMs previously listed for all special-status wildlife, MM BIO-8 (Bird and Bat Conservation Strategy) requires a project-specific risk assessment to address potential for take of birds and bats due to Project related threats including collision, electrocution, territory abandonment, nest and roost site disturbance, habitat loss and fragmentation, disturbance from human presence, and predator subsidies. The plan further describes a strategy for postconstruction adaptive management for bird and bat mortality associated with the Project. By implementing the requirements of the BBCS, instances of bat injury and mortality associated with solar facilities would be adaptively managed and impacts would be minimized.

7-9

In addition to the CMAs previously listed for all special-status wildlife species, CMAs would be implemented on BLM land within the Project site to minimize impacts to bats. These measures would minimize and avoid disturbance, injury, and mortality of bats by identifying, monitoring, and managing project related risks and are expected to effectively minimize potential impacts to special-status bats.

Cumulative projects would also convert desert shrubland foraging habitat and remove roost sites, resulting in a significant cumulative impact to special-status bats. These projects would implement mitigation measures and DRECP CMAs, as applicable, similar to those identified for the proposed Project, including offsite compensation for native habitats, avoidance of active roosts, avoidance of desert dry wash woodland, and Bird and Bat Conservation Strategies. The incremental contribution of the proposed Project to the cumulative impacts to special-status bats would not be considerable because mitigation measures would be implemented on private lands and CMAs would be implemented on BLM lands, desert dry wash woodland habitat would persist on the Project site, native habitat loss would be minimized, and potential collision would be adaptively managed as described above for native birds.

<u>Wildlife movement</u>. Cumulative impacts for wildlife movement consider projects within 5 miles that could impact multi-species linkages. Together with the other solar projects in the surrounding area, wildlife movement in the vicinity of the Project would be inhibited and cumulative impacts would be significant.

The southernmost portion of the DRECP Pinto Wash multi-species linkage overlaps the northern Project area, a portion of which would be impacted by the proposed Project. The avoided portion of the linkage on the Easley Project site supports desert dry wash woodland. Avoidance of this habitat would help maintain movement opportunities east-west through the southern portion of the linkage. Undeveloped lands would persist in the remainder of the multi-species linkage to the north, in ACECs located east and south of the Project site, and if approved by Congress, in the areas of the proposed expansion of Joshua Tree National Park and the Chuckwalla National Monument to the west and south. In combination with avoidance of desert dry wash woodland on BLM lands under the DRECP, and at other cumulative projects, limited wildlife movement through and around the Project would be maintained.

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On private lands, MMs BIO-1 through BIO 5, described in detail in Impact BIO-1, would minimize significant impacts to native vegetation, including corridor habitat, by restricting disturbance to work areas, promoting low impact development and preserving vegetation under solar panels, and improving post-construction habitat values. MM BIO-6 (Wildlife Protection) identifies numerous requirements to manage hazards to wildlife in work areas and report dead or injured wildlife. These measures would increase detection of wildlife in Project areas that require avoidance and would prevent attraction to the Project site where there is increased likelihood of disturbance.

MMs BIO7 through BIO13 would prevent significant impacts to specific special-status wildlife species and nesting or breeding sites by requiring specific pre-construction surveys and nesting surveys, species protection plans, passive exclusion of wildlife from work areas or relocation or translocation of certain species away from the area, and avoidance of buffer areas while bird nests and occupied burrows and dens are active.

These measures ensure that work areas would be inspected and surveyed, and that special-status wildlife would be identified, monitored, buffered and avoided, or properly excluded or relocated, which is expected to reduce the likelihood and severity of injury, and the likelihood of mortality

of wildlife with potential to move through the Project areas or use the site for breeding or rearing of young.

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The Project has been designed to avoid desert dry wash woodland (except for minor incursions), per the Project Description, and compensatory mitigation (desert dry wash woodland at a ratio of 5:1 (MM BIO-14), desert pavement at a ratio of 1:1 (MM BIO-3), creosote bush scrub (suitable desert tortoise habitat) at a ratio of 1:1 (MM BIO-7), and desert tortoise critical habitat at a ratio of 5:1 (MM BIO-7)) would preserve habitat values and corridors for wildlife movement and would offset habitat loss, consistent with CMAs LUPA-BIO-RIPWET-1 and LUPA-BIO-COMP-1.

Long-term night lighting that could affect nocturnal and other wildlife and wildlife movement would be managed per MM VIS-1 (see EIR Section 3.2, Aesthetics).

The project is required to comply with DRECP CMAs for all project activities and development on BLM land. The BLM is expected to ensure project-specific CMA compliance through imposition of NEPA mitigation measures and stipulations of the ROW Grant issued for the Project. Compliance with the CMAs, which would be required on BLM lands, as described in Impact BIO-3, would mitigate impacts to less than significant.

Similar to the requirements of the MMs that would be implemented on private land within the Project site, these CMAs reduce impacts to wildlife and habitat by requiring qualified biological staff to perform species and pre-construction surveys, worker training, and monitoring to detect and identify biological resources for demarcation and avoidance. Implementation of plant and seed salvage, re-vegetation, and weed management would improve post-construction habitat values. Avoidance of desert dry wash woodland with a 200-foot setback buffer would prevent direct removal of wildlife and corridor habitat.

Per LUPA-BIO-13 (General Siting and Design) projects along the edges of the biological linkages are required to maximize the retention of microphyllous woodlands in order to maintain the function of the connectivity area. By avoiding desert dry wash woodland with a setback

buffer, consistent with CMAs, Project areas would be left open to wildlife movement and the Project would not threaten the long-term viability and function of the corridor.

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The Project's contribution to cumulative impacts to wildlife movement would not be considerable.

Local policies and ordinances. All cumulative projects are subject to environmental review and approval by federal, State, or local agencies. During that process, the agencies review the applicable polices and ensure that each project complies with policies and ordinances, and impose conditions as appropriate to ensure compliance. Therefore, there is no significant cumulative conflict with local policies and ordinances. The proposed Project does not conflict with local policies or ordinances and thus has no contribution to any cumulative conflict. Cumulative impacts to policies and ordinances would be less than significant.

(EIR pp. 3.5-35 to 3.5-39).

Mitigation Measures:

MM BIO-1 (Biological Monitoring) Full text under Biological Resources.

MM BIO-2 (Worker Environmental Awareness Training) Full text under Biological Resources.

MM BIO-3 (Minimization of Vegetation and Habitat Impacts) Full text under Biological Resources.

MM BIO-4 (Integrated Weed Management Plan) Full text under Biological Resources.

MM BIO-5 (Vegetation Resources Management Plan) Full text under Biological

Resources.

MM BIO-6 (Wildlife Protection) Full text under Biological Resources.

MM BIO-7 (Desert Tortoise Protection) Full text under Biological Resources.

MM BIO-8 (Bird and Bat Conservation Strategy [BBCS]) Full text under Biological Resources.

MM BIO-9 (Nesting Bird Management Plan [NBMP]) Full text under Biological Resources. MM BIO-10 (Gen-tie Lines) Full text under Biological Resources. MM BIO-11 (Burrowing Owl Avoidance and Relocation) Full text under Biological Resources. MM BIO-12 (Desert Kit Fox and American Badger Relocation) Full text under Biological Resources. MM BIO-13 (Wildlife Protection and Relocation Plan) Full text under Biological Resources. MM BIO-14 (Streambed and Watershed Protection) Full text under Biological Resources. **DRECP CMAs:** Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA. CMAs specifically applicable under cumulative biological resources impacts are detailed at FEIR p 3.5-136. Е. **Cultural Resources and Tribal Cultural Resources Cumulative Impacts** Cumulative Impact Finding: Cumulatively Considerable (Visual Impacts to PTNCL); Not Cumulatively Considerable (All Other Impacts). The Project would not alter or destroy a historical resource, either directly or indirectly. There are no known CRHR-eligible historical resources in the Project's direct impact area. Because the visual changes resulting from the Project would be in kind with the current nature and scale

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of existing visible developments, the portion of SR-177/Rice Road (P-33-025150) within the indirect impact area would also not be impacted by the Project. Cumulative projects similarly would be in kind with the current nature and scale of existing visible developments and would be subject to similar measures designed to avoid and minimize impacts to historical resources.

Therefore, cumulative impacts to historical resources would be less than significant, and the Project would not make a cumulatively considerable contribution to cumulative impacts on historical resources.

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The Project would not alter or destroy any CRHR-eligible archaeological resources, either directly or indirectly. No evidence of P-33-023675 or the PTNCL were identified within the Project's direct impact area. Archaeological resources located within the Project's direct impact area are not associated with any sites or trail segments of the PTNCL and do not contribute to the historical significance of the PTNCL. Due to their widespread occurrences, removal of these sites and isolates would not alter the PTNCL's ability to convey its historical significance. However, while the visual changes resulting from the Project would be in kind with the current nature and scale of existing visible developments, the addition of more industrial components to the Chuckwalla Valley, as a result of the Project in combination with past projects, other current projects, and probable future projects, would contribute to adverse visual impacts to the PTNCL, particularly from character defining features within the PTNCL.

The Project would implement Mitigation Measures CUL-1 through MM CUL-6, MM TCR-1, MM TCR-2, AES-1 and AES-2, and applicable DRECP CMAs, which would avoid and minimize impacts to archaeological resources and employ design elements that reduce the Project's visual contrast to characteristics of the landscape, reducing project-level impacts to less than significant. Cumulative projects would likely be required to implement similar measures. However, cumulative visual impacts to the PTNCL would remain significant, and the Project's incremental contribution would be cumulatively considerable.

The Project would not alter or destroy a unique archaeological resource, either directly or indirectly. There are no known unique archaeological resources in the Project's direct or indirect impact areas. Cumulative projects would be subject to measures designed to avoid and minimize impacts to archaeological resources. Therefore, cumulative impacts would be less than significant, and the Project would not contribute to cumulative impacts to any unique archaeological resource.

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The Project would not disturb any human remains, including those interred outside of dedicated cemeteries. A review of the archaeological record search and results of recent surveys did not identify any human remains, burial sites, or cemeteries in the Project area. If human remains or related resources are discovered, such resources shall be treated in accordance with state and local regulations and guidelines that govern the disclosure, recovery, relocation, and preservation of human remains (14 CCR 15064.5[e]) and in accordance with relevant mitigation measures and DRECP CMAs. Cumulative projects would be subject to the same requirements. Therefore, cumulative impacts would be less than significant, and the Project's impacts combined with those of nearby projects would not result in a cumulatively considerable impact on human remains, including those interred outside of dedicated cemeteries.

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The Project would not cause adverse change in the significance of a tribal cultural resource determined by a lead agency or eligible for or listed on the CRHR or local register of historic resources and would be subject to various mitigation measures and CMAs to avoid, minimize, or mitigate impacts to any tribal cultural resources identified during construction, operations, maintenance, and decommissioning of the Project. Cumulative projects would be subject to similar measures designed to avoid and minimize impacts to tribal cultural resources. However, as discussed above, the Project in combination with past projects, other current projects, and probable future projects would contribute to adverse visual impacts to the PTNCL, particularly from character defining features within the PTNCL. Cumulative visual impacts to the PTNCL would remain significant, and the Project's incremental contribution would be cumulatively considerable.

In sum, cumulative visual impacts to the PTNCL would be significant and unavoidable, and the Project's incremental contribution to those visual impacts would be cumulatively considerable. All other cumulative cultural and tribal cultural resource impacts would be less than significant, and the Project's incremental contribution would not be cumulatively considerable. (EIR pp. 3.6-51 to 3.6-53).

1		Applicant Proposed Measures:
2		APM CULT-1 (Native American Monitoring) Full text under Cultural and Tribal Cultural
3		Resources.
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5		Mitigation Measures:
6		MM AES-1 (Surface Treatment of Project Structures and Buildings) Full text under
7		Aesthetic Resources.
8		MM AES-2 (Project Design) Full text under Aesthetic Resources.
9		MM CUL-1 (Project Archaeologist and Cultural Resource Monitoring Plan) Full text under
10		Cultural and Tribal Cultural Resources.
11		MM CUL2 (Develop and Implement Cultural Resources Environmental Awareness
12		Training) Full text under Cultural and Tribal Cultural Resources.
13		MM CUL-3 (Archaeological Monitoring) Full text under Cultural and Tribal Cultural
14		Resources.
15		MM CUL-4 (Unanticipated Resources) Full text under Cultural and Tribal Cultural
16		Resources.
17		MM CUL-5 (Treatment of Human Remains) Full text under Cultural and Tribal Cultural
18		Resources.
19		MM CUL-6 (Phase IV Monitoring Report) Full text under Cultural and Tribal Cultural
20		Resources.
21		MM TCR-1 (Native American Monitor) Full text under Cultural and Tribal Cultural
22		Resources.
23		MM TCR-2 (Artifact Disposition) Full text under Cultural and Tribal Cultural Resources.
24		DRECP CMAs:
25		Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an
26		explanation of their applicability, and demonstration of compliance with the CMA.
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28	F.	Energy Resources Cumulative Impacts

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Cumulative Impact Finding: Not Cumulatively Considerable.

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The Project's energy use would contribute to the construction and operation of a solar facility that would increase the availability of renewable energy, thus reducing the use of fossil fuel for electrical generation by conventional power plants. Most of the cumulative projects identified in the EIR are renewable energy facilities and the remainder include projects such as a battery storage project, line capacity increase, or transmission lines and substations. Although construction activities associated with cumulative projects would require the use of fossil fuels, it is assumed each project would initiate best management practices and comply with applicable policies and regulations as part of project approval to reduce wasteful, inefficient, or unnecessary use of energy resources. Furthermore, most of the cumulative projects would also contribute renewable energy to the California electrical transmission system, reducing the State's overall reliance on fossil fuels. Cumulative impacts would be less than significant, and the proposed Project would not contribute to cumulatively considerable energy impacts and would make a beneficial cumulative contribution to supporting federal, state, and local plans for renewable energy development. (**EIR pp. 3.7-5 and 3.7-6**).

G. Geology, Soils and Mineral Resources Cumulative Impacts

Cumulative Impact Finding: Not Cumulatively Considerable.

The geologic and seismic impacts of the Project are minimal and would not combine to result in a cumulatively significant geologic impact and the Project's contribution to such impacts would not be cumulatively considerable.

The proposed Project is adjacent to two large solar projects that would require substantial ground disturbance, the Oberon Renewable Energy Project (operational) and the Sapphire Solar Project (proposed). While each project's soil disturbance could result in off-site water and wind erosion, the Oberon and Sapphire Projects have or would also undergo an environmental review under NEPA and CEQA and would be required to abide by existing regulations and Applicant commitments such that they would have a DESCP, Drainage Plan, and SWPPP, and plans to

1 stabilize and/or revegetate disturbed areas that that would reduce wind and water erosion and 2 minimize its potential to leave its project site, similar to the Easley Project. Because wind and 3 water erosion of disturbed soil would be minimized by implementation of plans required by 4 regulations, mitigation measures and CMAs, it would not combine with the potential erosion 5 from nearby projects to create a cumulatively significant impact due to erosion. These same 6 plans, regulations, and measures would ensure that the proposed Project's contribution to 7 erosion would not be cumulatively considerable. (EIR pp. 3.8-20). 8 **Mitigation Measures:** 9 MM AQ-1 (Fugitive Dust Control Plan) Full text under Air Quality. 10 MM BIO-1 (Biological Monitoring) Full text under Biological Resources. 11 MM BIO-3 (Minimization of Vegetation and Habitat Impacts) Full text under Biological 12 13 Resources. MM BIO-5 (Vegetation Resources Management Plan) Full text under Biological Resources. 14 MM HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) Full text under 15 16 Hydrology and Water Quality. MM HWQ-5 (Project Drainage Plan) Full text under Hydrology and Water Quality. 17 18 **DRECP CMAs:** 19 Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an 20 explanation of their applicability, and demonstration of compliance with the CMA. 21 **Greenhouse Gas Emissions Cumulative Impacts** H. 22 Cumulative Impact Finding: Not cumulatively considerable. 23 Because the direct environmental effect of GHG emissions is to influence global climate change. 24 GHG emissions are inherently a cumulative concern. 25 The main contribution of GHG emissions from the Project would be from construction 26 equipment usage during the construction phase and motor vehicles trips by employees and 27 maintenance vehicles during Project operations. The Project's emissions would, therefore, 28

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contribute to the increase in emissions in the transportation sector. Construction emissions would be finite and temporary and would cease at the end of construction activities.

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Although the Project would result in a short-term contribution to cumulative GHG emissions in California, operation of the Project would offset emissions from the electricity generation sector. Therefore, the total GHG construction emissions that would be associated with the Project would be offset by Project operations. Overall, the Project would not contribute to cumulative GHG emissions in California because operation of the Project would provide electric power with negligible operational GHG emissions over the long term when compared to traditional fossilfueled generation technologies. Thus, the Project would not have a cumulatively considerable impact on global climate change, and cumulative impacts would therefore be less than significant. (EIR p. 3.9-9).

I. Hazards and Hazardous Materials Cumulative Impacts

Cumulative Impact Finding: Not Cumulatively Considerable.

The cumulative effect of transport, use, and disposal of hazardous materials during construction would be limited to the areas where concurrent construction is occurring or where concurrent roads are being used for construction traffic. Operation and maintenance of the proposed Project, including the proposed substations, shared switchyard, and O&M buildings, would involve periodic and routine transport, use, and disposal of minor amounts of hazardous materials, primarily petroleum products (fuels and lubricating oils) and motor vehicle fuel. The implementation of Mitigation Measure HAZ-2 (Worker Environmental Awareness Program), applicable CMAs, and agency regulations that address the handling of hazardous materials would ensure that the Project would not create a significant hazard to the public or the environment related to the handling or accidental release of hazardous materials. Past, present, and reasonably foreseeable future projects are also subject to existing agency regulations that address the handling and accidental release of hazardous materials, and all of the solar projects would have their own WEAPs for construction and operations. Therefore, existing regulations

would ensure that the combined effects related to hazards and hazardous materials from the cumulative projects within the geographic scope of analysis would not be cumulatively significant, and that the proposed Project would not make a cumulatively considerable contribution to these effects. Construction of the Project could encounter previously documented and un-documented hazardous materials sites within the Project area. Since the proposed site is located within an area with a history of WWII military use, there is a potential for UXO, MEC, and MD. The Project would be required to implement an UXO Identification, Training, and Reporting Plan (MM HAZ-1) which addresses the identification and treatment of UXO and munitions debris, a WEAP (MM HAZ-2) which addresses hazardous materials handling and disposal training and information, and a SMP (MM HAZ-3) to address potential pesticide contaminated soil, as well as applicable DRECP CMAs on BLM land. The cumulative projects would also be located on former military land with a history of UXO and munitions debris, so would also likely require similar measures to minimize impacts on and off the site. Cumulative impacts would be less than significant, and implementation of the Project would not make a cumulatively considerable contribution to public health and safety hazards.

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Implementation of stringent dust control regulations, Mitigation Measures HAZ-2 (Worker Environmental Awareness Program) and AQ-1 (Fugitive Dust Control Plan) minimizes the risk of workers or the public contracting Valley Fever. Past, present, and reasonably foreseeable future projects are also subject to existing agency regulations that address fugitive dust and would likely have similar mitigation to prepare a fugitive dust control plan. Therefore, existing regulations, mitigation, and applicable CMAs would ensure that cumulative impacts are less than significant and the proposed Project would not make a considerably contribution to the potential for contracting Valley Fever.

Impacts from the storage, use, disposal, and transportation of hazardous materials would not result significant cumulative impacts, nor would the Project result in a considerable contribution to cumulative impact because hazardous materials are extensively regulated by various federal, state, and local laws, regulations, and policies.

The proposed Project would be required to comply with applicable federal, state, and Riverside County requirements relating to fire safety and fire hazards, the FMPP, and Mitigation Measures FIRE-1, minimizing the risk of wildland fire occurring. Projects in the cumulative scenario would be required to comply with the same or similar requirements. Therefore, cumulative impacts would be less than significant, and implementation of the Project would not make a cumulatively considerable contribution to potential wildland fire impacts. In addition, the proposed Project would not make a considerable contribution to impact related to impairment of the implementation of or physical interference with an adopted emergency response plan or emergency evacuation plan because no aspect of the Project would interfere with emergency response (e.g., construction is not expected to require any temporary lane closures that could restrict the movements of emergency vehicles).. (EIR p. 3.10-24 and 3.10-25).

Mitigation Measures:

MM AQ-1 (Fugitive Dust Control Plan) Full text under Air Quality.

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MM FIRE-1 (Fire Safety) Full text under Wildfire.

MM HAZ-1 (UXO Identification, Training and Reporting Plan) Full text under Hazards and Hazardous Materials.

MM HAZ-2 (Worker Environmental Awareness Program) Full text under Hazards and Hazardous Materials.

MM HAZ-3 (Soil Management Plan) Full text under Hazards and Hazardous Materials.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA.

J. Hydrology and Water Quality Cumulative Impacts

Cumulative Impact Finding: Not Cumulatively Considerable. Surface Water. All foreseeable future projects in the Chuckwalla Valley Hydrologic Unit would

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be subject to similar measures as the proposed Project when obtaining the required permits and complying with state and federal clean water regulations and Riverside County floodplain development regulations. As these projects would go through an environmental review process, they would be subject to similar mitigation measures as those proposed to address potential water quality impacts for the proposed Project. Many of the projects (Arica, Victory Pass, Palen, and Desert Harvest) do or would likely avoid major drainages that cross their sites. Because the Project is in a similar hydrologic setting and most of the cumulative projects are similar projects, individual project impacts are expected to be reduced to less than significant through compliance with regulations and mitigation. Therefore, the combined effects to water quality from the cumulative projects within the geographic scope would not be considered cumulatively significant and the proposed Project would not have a considerable contribution to the cumulative impact.

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<u>Groundwater</u>. The Project would result in less than significant impacts to groundwater supplies with implementation of mitigation and applicable CMAs. A cumulative impact scenario on groundwater was completed in the Project WSA. As with the Project-level analysis, normal (average) conditions are considered the more accurate estimate; the annual groundwater deficit resulting from the use of the reduced recharge rates is inconsistent with reported groundwater levels in the CVGB, which indicate that the groundwater levels are generally stable, or in some areas in the CVGB, indicate an increasing trend, which would not occur if there were an ongoing annual groundwater deficit. Additionally, the reduced recharge groundwater budget is inconsistent with previous studies, including USGS (2007), CEC (2010), and Fang et al. (2021). Development of a 52-year (equivalent to the total Project duration) groundwater budget or of construction for all cumulative projects not already under construction or operational). The cumulative groundwater deficit would increase to approximately 118,420 AF by the end of the 52-year period. Development of a 52-year (equivalent to the total Project duration) groundwater

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budget projection, assuming average precipitation and the Project and all cumulative projects in place, indicates there would be an initial groundwater deficit of 6,960 AF in the year 2024 (first year of Project construction for all cumulative projects not already under construction or operational). The cumulative groundwater deficit would increase to approximately 118,420 AF by the end of the 52-year period. Using the driest 52-year period recorded at the Blythe Airport meteorological station, with the Project and all cumulative projects in place, the CVGB total groundwater deficit at the end of the 52-year period would be approximately 112,560 AF. Using the DWR (2020a) estimated annual pumping, at the end of the 52-year period the total groundwater deficit would be approximately 39,760 AF.

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Notably, the estimated water demand of the Eagle Mountain Pump Storage (EMPS) Project is 4,460 AFY during the projected 4-year construction period and 2,050 AFY during the operational phase of the project. Comparatively, one year of construction water demand for the EMPS Project is more than the 52year water demand for the Project. Further, during its operational phase, the EMPS Project is projected to use more than six times the groundwater of all other cumulative projects located in the CVGB. The inclusion of the EMPS Project drastically affects the cumulative project projected groundwater budgets. Without the EMPS Project, the cumulative groundwater deficit would be 2,180 AF at the end of the 52year period under normal conditions. Under normal conditions using DWR (2020a) estimated annual pumping, there would be a cumulative groundwater surplus of 70,620 AF without the EMPS Project. Similarly, if the EMPS Project groundwater surplus would be 3,680 AF at the end of the 52-year period cumulative project scenario, the cumulative groundwater surplus would be 3,680 AF at the end of the 52-year period.

Although the cumulative scenarios presented in the Project WSA (GSI, 2024) indicate a deficit over the 52-year period in some circumstances, the available water supplies during normal, single dry, and multiple dry water years from the CVGB, would meet the projected water demands of the cumulative project uses, in addition to existing uses and planned future uses.

This is a result of the storage capacity and hydrogeologic properties of the CVGB, and the relatively low water demand of the cumulative projects. Further, the WSA also calculated the groundwater drawdown caused by groundwater use by the cumulative projects. The Project impacts are discussed in terms of the zones of influence of the total cone of depression considering cumulative drawdown as a result of the Project, cumulative projects, and the CVGB projected agricultural, municipal, and domestic pumping. The zone of influence after 2 years of Project construction pumping (500 AFY) is an approximately 4.5-mile radius cone of depression out to 0.5 feet of drawdown. Project operational and decommissioning pumping (50 AFY) for 50 years has a cumulative drawdown with an approximately 15-mile radius out to 0.5 feet of influence also includes pumping from cumulative projects.

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The modeling results indicate that impacts to groundwater levels as a result of Project and cumulative project pumping are confined to the western part of the CVGB. Although most of the non-cumulative project pumping (see GSI, 2024 Section 5.8.2) in the CVGB occurs in the western part of the CVGB (the total agricultural, municipal, and domestic pumping is limited to approximately 7,900 AFY [CEC, 2010]), cumulative project pumping is not anticipated to adversely affect existing water users and water rights claimants in the CVGB due to the limited magnitude of the simulated drawdown (see the previous paragraph).

Thus, even with a potential deficit, the overall impact would be limited to the western part of the CVGB and any such impact would not adversely affect the existing water uses in that area. Further, even the higher estimated deficit (112,560 AF) is only 1.12 percent of the total assumed 10,000,000 AF capacity of the CVGB. Year to year groundwater use by cumulative projects also would be well below historical agricultural pumping, which was approximately 21,000 AFY in 1986 (GEI, 2010a). Current agricultural groundwater use is estimated at approximately 6,628 AFY, approximately three times the amount of yearly operational groundwater use for all cumulative projects (DWR, 2020a). Even with agricultural pumping, as well as municipal and domestic uses, groundwater levels in the CVGB have been relatively stable or, in some areas of the CVGB, increasing based on reported groundwater levels. There is no reported evidence of

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subsidence in the CVGB as a result of historical or present pumping (GEI, 2010a) and the Project and cumulative projects are not anticipated to cause subsidence, increase the rate of subsidence, or cause loss of aquifer storage capacity in the CVGB.

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Thus, the addition of the cumulative projects likely would have a limited impact on the overall groundwater supplies in the CVGB. Like the Project, cumulative projects would be required to implement groundwater monitoring plans and ensure that pumping would not adversely impact existing users. Groundwater pumping from cumulative projects also would be limited by the Accounting Surface. However, because the cumulative scenario under normal conditions indicates a potential groundwater deficit, the County conservatively concludes that cumulative impacts would be potentially significant.

Although cumulative impacts would be potentially significant, the Project's incremental contribution is not considered cumulatively considerable. As noted above, the cumulative deficit is driven by the proposed EMPS Project, which accounts for the majority of groundwater use under the cumulative scenario. One year of construction water demand for the EMPS Project is more than the 52-year water demand for the Project. Further, during its operational phase, the EMPS Project is projected to use more than six times the groundwater of all other cumulative projects located in the CVGB and more than 33 times the groundwater of the Project during the 52-year period. Without the EMPS Project, the cumulative groundwater deficit would be 2,180 at the end of the 52-year period. Under normal conditions using DWR (2020a) estimated annual pumping, there would be a cumulative groundwater surplus of 70,620 AF without the EMPS Project. Similarly, if the EMPS Project groundwater use was not included in the driest 52-year period cumulative project scenario, the cumulative groundwater surplus would be 3,680 AF at the end of the 52-year period. Using the DWR (2020a) estimated annual pumping, the cumulative groundwater surplus would be 76,480 AF at the end of the 52-year period. The Project's contribution to cumulative project pumping during the 52-year period is minor, accounting for 3 percent of the total cumulative demand. The Project also would implement various construction techniques designed to reduce overall water use during construction,

including using "overland travel," designating primary travel routes, limiting grading, utilizing small rubber-wheel vehicles, and phasing construction, as described in Chapter 2. Project-level impacts are less than significant, and the Project would comply with various mitigation measures and CMAs that would minimize potential pumping impacts to nearby wells and the larger CVGB. Accordingly, the Project's incremental contribution to cumulative impacts is not-cumulatively considerable.

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Further, based on the limited magnitude of the simulated drawdown due to Project and cumulative project pumping, groundwater levels would not be lowered to a level that would cause a degradation of groundwater quality that affect other beneficial uses. Additionally, groundwater levels would not be lowered to a level that causes pumping wells near the Project to begin to capture deeper/older groundwater within the CVGB. Deeper/older groundwater typically contains increased salts and nutrients as a result of prolonged exposure to the aquifer material (leaching of minerals from the host rock into groundwater) (USGS, 2019). In addition, there are no known point source plumes near the Project. Therefore, there are no known contaminant plumes Project pumping or cumulative pumping could potentially mobilize. (EIR **pp. 3.11-35 to 3.11-38**).

Mitigation Measures:

MM HWQ-1 (Drainage Erosion and Sedimentation Control Plan [DESCP]) Full text under Hydrology and Water Quality.

MM HWQ-2 (Septic System Review and Permitting) Full text under Hydrology and Water Quality.

MM HWQ-3 (Palo Verde Mesa Groundwater Basin [PVMGB] Protection) Full text under Hydrology and Water Quality.

MM HWQ-4 (Groundwater Monitoring, Reporting, and Mitigation Plan [GMRMP]) Full text under Hydrology and Water Quality.

MM HWQ-5 (Project Drainage Plan) Full text under Hydrology and Water Quality.

1 MM HWQ-6 (Flood Protection) Full text under Hydrology and Water Quality. 2 MM BIO-3 (Minimization of Vegetation and Habitat Impacts) Full text under Biological 3 Resources. 4 MM BIO-5 (Vegetation Resources Management Plan) Full text under Biological 5 Resources. 6 MM BIO-14 (Streambed and Watershed Protection) Full text under Biological Resources. 7 **DRECP CMAs:** 8 Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an 9 explanation of their applicability, and demonstration of compliance with the CMA. 10 11 Land Use and Planning Cumulative Impacts K. 12 Cumulative Impact Finding: Not Cumulatively Considerable. 13 Potential land use impacts require evaluation on a case-by-case basis. The Easley Project would 14 be consistent with the goals and policies of the Riverside County General Plan, and other 15 applicable local land use plans, policies, and regulations and with the federal plans. In addition, 16 with approval of all discretionary requests, the Project would be an allowable use that would not $\cdot 17$ conflict with the land use or zoning classifications for the site. Therefore, cumulative impacts 18 would be less than significant, and the Project's incremental contribution to cumulative impacts 19 to land use would not be considerable. (EIR pp. 3.12-13). 20 21 **Noise Cumulative Impacts** L. 22 Cumulative Impact Finding: Not Cumulatively Considerable. 23 Limited areas of cumulative project construction activities could be within 0.5 mile of the 24 proposed Project. Active pieces of construction equipment normally cause no more than 85 dBA 25 when measured 50 feet from the source. Construction-phase noise impacts would be short-term 26 and limited in nature, with construction activities for all cumulative projects normally being 27 limited to the daytime. Simultaneous cumulative project construction activity would have the 28

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potential to cause overlapping construction noise impacts with construction of the proposed

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Project. The potential for overlap depends on the distance and timing of the future projects. The boundaries of the cumulative project nearest to the existing residences are those for the Sapphire Solar Project, which would be over one mile from the existing residences at Lake Tamarisk Desert Resort. At this distance, active construction equipment generating noise within the Sapphire Solar Project site could contribute about 42 dBA at the residences. When compared with the construction effects of the proposed Project, which could cause 62 dBA Leq at the residences, the cumulative project construction noise would not substantially influence the localized noise levels experienced by nearby residences including Lake Tamarisk Desert Resort. (Calculations appear in EIR Appendix K.) Because substantial distances separate residences from the proposed Project and probable future projects, construction noise from the Sapphire Solar Project and other cumulative projects would attenuate to imperceptible levels prior to reaching residences and therefore would not be expected to combine with project construction noise in a way that would increase noise levels experienced by sensitive receptors.

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The noise impact of cumulative project operations could also occur simultaneously with proposed Project construction, although no cumulative project operation noise would be likely to occur at a location that substantially influences the localized noise levels experienced by residences nearest to the proposed Project permanent noise sources. This is because the only cumulative projects with the reasonable potential to combine noise impacts with the Project are the Sapphire Solar Project, Oberon Solar Project, and Athos Solar Project. As described above, the Sapphire Solar Project would be located over one mile away from Lake Tamarisk Desert Resort. Distances of 0.5 miles or more separate Lake Tamarisk Desert Resort from the nearest noise-producing facilities for the Oberon project, and over one mile separates Lake Tamarisk Desert Resort from the Athos project. At these distances, operational noise from these cumulative projects would be comparable to the noise from proposed Project operation, but at a greater distance. The cumulative project noise would attenuate to the point of being imperceptible for existing residences. As a result, operational noise from these projects would

not be expected to combine with Project construction noise in a way that would cause significant cumulative noise impacts.

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For the reasons described above and given that the nearest sensitive receptor would be at least 200 meters (656 feet) from proposed Project construction activities and at much greater distances from cumulative projects, cumulative noise impacts during Project construction would not be significant. Mitigation Measures MM N-1 through N-3 and applicable DRECP CMAs would minimize the Project's contribution to these already less-than-significant cumulative construction noise impacts.

The duration of construction work for the proposed Project would be approximately 20 months, and after that time, few notable permanent sources of noise would occur with the proposed solar facility, BESS, and gen-tie, and similarly, few noise sources occur with the cumulative projects. All cumulative project operations would generate noise from employee vehicles accessing the sites, and solar energy projects include power inverters and other power system infrastructure that are minor sources of noise. These sources may cause localized cumulative effects where multiple projects or shared transportation routes occur adjacent to a sensitive receptor. However, as described above, cumulative projects with the potential to combine noise impacts with the project are located such that operational noise they generate would be expected to attenuate to the point of being imperceptible for existing residences. As a result, operational noise from these projects would not be expected to combine with proposed Project operations noise in a way that would cause significant cumulative noise impacts.

As described above, cumulative noise impacts would not be significant. These less-thansignificant impacts would be further reduced through compliance with local laws and regulations and implementation of typical mitigation to protect sensitive receptors from noise and implement feasible noise controls. Cumulative renewable energy projects and other development that are subjected to the environmental permitting process would have a detailed analysis of noise and land use conflicts as part of the project-level environmental review. The permitting process normally requires each project to comply with local standards and to avoid 1

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noise-related land use conflicts. This means that all projects, even if unrelated to the proposed Project, would need to comply with the local community noise standards, such as the Riverside County Noise Ordinance. Cumulative effects due to ground-borne vibration would occur only if there were sources of the vibration within approximately 200 feet from the boundaries between the proposed Project site and cumulative project sites. Boundaries of cumulative projects occur within 200 feet of the proposed Project site, but these shared boundaries are not within 200 feet of existing residences. As a result, the areas of potential overlap of cumulative project construction-related vibration would not be likely to create a cumulative vibration impact at residences near the proposed Project, and no cumulative effects would be likely from ground-borne vibration. (EIR pp. 3.13-14 and 3.13-15).

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Applicant Proposed Measures:

APM NOISE-1 Full text under Noise and Vibration.

Mitigation Measures:

MM N-1 (Construction Restrictions) Full text under Noise and Vibration.

MM N-2 (Public Notification Process) Full text under Noise and Vibration.

MM N-3 (Noise Complaint Process) Full text under Noise and Vibration.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA.

M. Paleontological Resources Cumulative Impacts

Cumulative Impact Finding: Not Cumulatively Considerable.

A significant cumulative impact would occur if the impacts of multiple projects combined to result in the loss of paleontological resources that could provide information about ancient life

in the Chuckwalla Valley. The large amount of ground disturbance proposed from projects in this region is likely to result in some loss of fossil resources; particularly, if ground-disturbing projects do not implement measures to avoid or minimize impacts. The Easley Project, as well as the other solar development projects in eastern Riverside County, would be required to provide mitigation for any impacts to paleontological resources in accordance with provisions of CEQA, as well as with regulations currently implemented by the County and BLM, the PRP Act, and the proposed guidelines of the SVP. Implementation of Mitigation Measures PR-1 through PR-4 and applicable DRECP CMAs would ensure that the proposed Project would avoid and minimize impacts on paleontological resources to the maximum extent feasible. Therefore, the Easley Project's incremental contribution to cumulative impacts for paleontological resources would not be cumulatively considerable. (EIR p. 3.14-10).

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Mitigation Measures:

MM PR-1 (Paleontological Resource Monitoring and Mitigation Plan [PRMP]) Full text under Paleontological Resources.

MM PR-2 (Worker Environmental Awareness Program [WEAP]) Full text under Paleontological Resources.

MM PR-3 (Paleontological Monitoring and Fossil Recovery) Full text under Paleontological Resources.

MM PR-4 (Paleontological Resources Monitoring Report) Full text under Paleontological Resources.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA.

- N.
- **Population and Housing Cumulative Impacts**

Cumulative Impact Finding: Not Cumulatively Considerable.

Construction of the present and reasonably foreseeable future development projects may overlap with construction of the proposed Project. Under the conservative assumption that peak construction periods overlap for all reasonably foreseeable projects, there would be an increased demand for temporary housing units in the cumulative area. The vacancy rates for housing units are moderately high (35 percent in Desert Center) and there are a number of temporary housing options available as well. There is an ample supply of housing units to accommodate workers drawn from outside the two-hour commute area. Therefore, cumulative impacts in the cumulative scenario on housing are projected to be less than significant. The proposed Project would contribute an additional peak labor need of approximately 530 individuals. Given the availability of housing units, the incremental effects of the Project, when considered together with other past, present, and reasonably foreseeable future projects, would not result in a cumulatively significant impact. (EIR p. 3.15-5).

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O. Public Services and Utilities Cumulative Impacts

Cumulative Impact Finding: Not Cumulatively Considerable.

The implementation of Project-specific Fire Prevention Plan would reduce the Projectrelated demand for fire, law enforcement, and emergency medical services from construction, such that the residual demand would not exceed established service ratios or require new or physically altered facilities, the construction of which could cause environmental impacts. Other projects would be required to comply with similar standards and regulations to reduce the potential for fire risks. The incremental effects of the Project and cumulative projects would therefore be reduced to less than significant level. The incremental effects of the proposed Project from up to 10 permanent staff during operations would also not be cumulatively considerable because the very low number of workers would also not lead to the exceedance of established service ratios or require new or physically altered facilities. Cumulative operational and maintenance-related impacts to public services including fire, hazardous materials handling, and medical resources and facilities would be less than related demands during construction and

would not result in significant cumulative impacts due to the low number of employees required to support projects in the cumulative scenario. At the end of the 30 to 50-year operational period of the proposed Project, the components would be decommissioned and deconstructed; the site would be restored to its pre-solar facility conditions and made available for agricultural use. Similar to construction (but to a lesser degree), the greatest potential need for public services would be associated with fire hazards. Fire hazards would be greatest during this time because the on-site workforce would be at its peak which could create a potential demand for fire and police services. Under cumulative conditions, implementation of the Project in the context of past projects and in conjunction with development of projects listed in Tables 3.11 and 3.12 are not anticipated to cause a demand on public services or utilities such that the construction of new or physical alteration of existing facilities would be required because the payment of development fees now and into the future is expected to substantially offset the public service-related demands of currently proposed and reasonably foreseeable future projects. Therefore, no significant adverse cumulative impact would result.

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Due to the temporary nature of construction, it is not likely that any of the workers and their families for any of the cumulative projects would relocate to the area. Any potential impact to schools and libraries from the minimal number of operations personnel for each solar project would be negligible especially as the workers would be sourced from local communities and would likely commute. There would be no significant cumulative impact to schools or public libraries.

The proposed Project would utilize an on-site or off-site groundwater well or water trucked from an offsite water purveyor and would not generate wastewater. There is no potential for the Project to contribute to cumulative impacts to water or wastewater systems. In addition, due to the existing and remaining capacity at existing landfills, the Project's incremental solid wasterelated impact during construction and operation, when combined with the contributions of past, other present, and reasonably foreseeable future projects would not result in significant cumulative impacts. (EIR pp. 3.16-12 and 3.16-13).

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P. Recreation Cumulative Impacts

Cumulative Impact Finding: Not Cumulatively Considerable.

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If all the solar projects were developed, loss of the local Desert Center OHV routes would be substantial because many routes would be closed. However, extensive OHV recreational opportunities would continue to exist in the surrounding area, including within the SRMA south of I-10, thus ensuring that cumulative impacts related to the loss of OHV routes would be less than significant. The contribution to the less than significant impact by the Project would be less than cumulatively considerable because the Project would only result in the partial closure of one route and would-be users of that trail would have alternative access to a nearby Open Route. None of the routes in the Project site connect to specific recreation areas. Because of the large amount of wilderness and solitary recreational areas in Eastern Riverside County and in the California desert and the limited use of the recreational areas near the Project, it is unlikely that recreationists who leave the Desert Center area for elsewhere in California would noticeably increase the use of others areas such that substantial physical deterioration of the region would occur or be accelerated. Impacts would not result in a cumulatively significant impact. (EIR p. 3.17-11).

Q.

Traffic and Transportation Cumulative Impacts

Cumulative Impact Finding: Not Cumulatively Considerable.

Project operations and maintenance would result in negligible daily trips to study area roadways. Therefore, the cumulative impact analysis focuses on traffic volumes generated during construction of the proposed Project. Impact TRA1 and Impact TRA2 consider the cumulative impacts of the Project by analyzing the effects of the Project plus the ambient conditions. Both impacts conclude that the cumulative impacts would be less than significant with implementation of MM TRA-1 (Construction Traffic Control Plan). Furthermore, Project construction and operation would not introduce trip VMT in excess of projects within the rural desert area and with implementation of MM TRA-1 would require the Applicant to ensure plans

for carpooling are incorporated.

Several solar projects and associated gen-tie lines and the Eagle Mountain Project gen-tie line are located within 20,000 feet of the Desert Center Airport. As with the proposed Project, each project would check with the airport sponsor and the FAA to ensure there are no potential safety or navigational problems with a proposed solar facility, especially if it is a large facility (FAA, 2010). Each cumulative development project within 20,000 feet of Desert Center Airport would also have to be evaluated against FAA 7460 regulations pertaining to structures that may affect aviation and airspace safety. Because each project would need to comply with FAA determinations, the FAA will be able to ensure that the cumulative impacts to the Desert Center Airport are not significant.

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Cumulative impacts due to increased transportation hazards or damaged roads could be significant if simultaneous construction activities resulted in significant volumes of heavy truck trips that affected safe use of a roadway or damaged transportation facility surfaces. The Project's contribution to the potentially significant cumulative impact would be reduced to less than cumulatively considerable because MM TRA-1 (Construction Traffic Control Plan) requires the Applicant to define the methods to maintaining close coordination with Caltrans and Riverside County, prior to and during construction, to minimize cumulative impacts of multiple simultaneous construction projects affecting shared portions of the circulation system. MM TRA-1 also requires the Applicant to reduce temporary motorist hazards in a variety of ways, including ensuring the safe movement of pedestrians and bicycles through work areas. MM TRA-2 (Repair Roadways and Transportation Facilities Damaged by Construction Activities) is proposed to ensure any damage and deterioration attributed to the Project would be repaired. With the incorporation of these measures, the Project would have a less than significant contribution to cumulative hazard impacts on transportation facilities.

Construction of gen-tie lines could result in a cumulative impact to temporary lane closures. This is because construction of the solar facilities is expected to require temporary lane closures for the stringing of gen-tie conductor across roadways. Construction of the gen-tie lines for each cumulative project may require stringing the lines over local roads and the I-10, but each developer would be required to coordinate that work with Caltrans and the County to avoid any cumulative impacts.

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Construction of the solar facility is not expected to require any temporary lane closures that could restrict the movements of buses. Similarly, the construction of the cumulative projects would also be unlikely to require temporary land closures because they would be built on public or private lands off of public roads. Construction of the proposed Project would require large vehicles travel on local roadways to access the site and includes MM TRA-1 (Construction Traffic Control Plan) that would include provisions for ensuring detours or safe movement of vehicles through all affected areas. The cumulative projects would also be required to abide by regulations regarding lane closures to reduce any potential impacts. Therefore, the Project would not result in a cumulative significant impact to public transportation. (EIR pp. 3.18-19 and 3.18-20).

Mitigation Measures:

MM TRA-1 (Construction Traffic Control Plan) Full text under Traffic and Transportation. MM TRA-2 (Repair Roadways and Transportation Facilities Damaged by Construction Activities) Full text under Traffic and Transportation.

R. Wildfire Cumulative Impacts

Cumulative Impact Finding: Not Cumulatively Considerable.

Cumulative impacts regarding wildfire hazards generally occur if multiple projects were to be constructed and operated in overlapping schedules in a High or Very High FHSZ. Additionally, cumulative wildfire impacts are more likely to occur if the projects involve construction of flammable structures, such as houses or other buildings. Combined with a geographic area prone to wildfires, such as a densely forested area or chapparal-dominated landscape, the wildfire effects of multiple developments could combine to be cumulatively considerable. None of these factors is present here.

Short-term cumulative impacts would occur during construction and decommissioning if the Project schedule overlaps with multiple other nearby projects. However, projects in the cumulative scenario would be required to comply with local, State, and federal fire hazard policies, the CFC, and include their own fire management plans and best management practices. Furthermore, the proposed Project, as well as the surrounding projects, would all occur in a Moderate FHSZ with no dense vegetation to spread a potential fire. Therefore, there would not be a significant cumulative impact related to wildfire, and the Project would not make a cumulatively considerable contribution to impacts related to fire hazards. (EIR pp. 3.19-14).

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Mitigation Measures:

MM TRA-1 (Construction Traffic Control Plan) Full text under Traffic and Transportation.MM FIRE-1 (Fire Safety) Full text under Wildfire.

DRECP CMAs:

Applicable CMAs are detailed in EIR Appendix CC, which provides a list of CMAs, an explanation of their applicability, and demonstration of compliance with the CMA.

BE IT FURTHER RESOLVED by the Board of Supervisors that it has considered the following alternatives identified in EIR No. SCH2022110240 in light of the environmental impacts which cannot be avoided or substantially lessened and has rejected those alternatives as failing to meet most of the Project's objectives, as failing to reduce or avoid the Project's significant impacts or as infeasible for the reasons hereinafter stated:

A. Pursuant to Public Resources Code Section 21002 and the State CEQA Guidelines section 15126.6(a), an EIR must assess a reasonable range of alternatives to the project action or location. Section 15126.6(a) places special emphasis on focusing the discussion on alternatives which provide opportunities for eliminating any significant adverse environmental impacts, or reducing them to a level of insignificance, even if the alternative would impede to some degree the attainment of the project objectives, or would be more costly. In this regard, the EIR must identify an environmentally superior alternative among

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1		the other alternatives. The discussion of alternatives is governed by the "rule of reason."
2		The EIR need not consider an alternative whose effect cannot be reasonably ascertained, or
3		does not contribute to an informed decision-making and public participation process. As
4		directed by State CEQA Guidelines section 15126.6(a), an EIR shall include alternatives to
5		the project that could feasibly accomplish most of the basic objectives of the project.
6	B.	The Project has been developed to achieve the following objectives:
7		1. Support climate and clean energy goals of the Inflation Reduction Act of 2022 by
8		helping to tackle the climate crisis and work towards achievement of President
9		Biden's goal of a zero-carbon power sector by 2035 and zero-carbon economy by
10		2050 through development of clean electricity (power sector);
11		2. Assist the nation to meet its Nationally Determined Contribution commitments under
12		Article 4 of the Paris Climate Agreement to achieve a 50 to 52 percent reduction in
13		U.S. greenhouse gas pollution from 2005 levels by 2030, and to achieve 100 percent
14		carbon pollution-free electricity by 2035 in the electricity sector;
15		3. Further the purpose of Secretarial Order 3285A1, establishing the development of
16		environmentally responsible renewable energy as a priority for the Department of
17		the Interior;
18		4. Deliver up to 400 MW of affordable, wholesale renewable energy to California
19		ratepayers under long-term contracts with electricity service providers;
20		5. Assist with achieving California's renewable energy generation goals under the
21		Clean Energy and Pollution Reduction Act of 2015 (Senate Bill 350) and the 100
22		Percent Clean Energy Act of 2018 (Senate Bill 100), as well as greenhouse gas
23		(GHG) emissions reduction goals of the California Global Warming Solutions Act
24		of 2006 (AB 32), as amended by Senate Bill 32 in 2016;
25		6. Enhance California's fossil-free resource adequacy capabilities and help to solve
26		California's "duck curve" power production problem by installing up to 650 MW of
27		2-hour and/or 4-hour battery energy storage capacity;
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Minimize environmental impacts and land disturbance associated with renewable 7. 1 energy development by siting the facility on relatively flat, contiguous lands with 2 high solar insolation, in close proximity to established utility corridors, existing 3 transmission lines with available capacity to facilitate interconnection, and road 4 5 access; Conform with the Desert Renewable Energy Conservation Plan, including 6 8. Conservation Management Actions; 7 Bring living-wage jobs to Riverside County; 9. 8 Bring sales tax revenues to Riverside County by establishing a point of sale in the 9 10. County for the procurement of most major project services and equipment. 10 Make the highest and best use of primarily disturbed, retired agricultural land in and 11. 11 around a federal "Solar Energy Zone" and "Development Focus Area" to generate, 12 store, and transmit affordable, wholesale solar electricity. 13 Develop a commercially financeable renewable energy project. 12. 14 These Project objectives (EIR p. 1-3) were defined consistent with the development 15 proposal for this location. As directed in State CEQA Guidelines section 15126.6(a), an EIR 16 shall include alternatives to the project that could avoid or substantially reduce one or more 17 of the significant effects. Because not all significant effects can be substantially reduced to 18 a less-than-significant level, either by adoption of mitigation measures with respect to the 19 portion of the Project on private land and/or implementation of the DRECP CMAs with 20 respect to the portion of the Project on BLM-administered land, Project Design Features, 21 existing regulations, or by standard conditions of approval, the following section considers 22 the feasibility of the Project alternatives as compared to the proposed Project. As explained 23 below, these findings describe and reject, for reasons documented in the EIR No. 24 SCH2022110240 and summarized below, each one of the Project alternatives, except for 25 Alternative B: Reduced Footprint Alternative, as described in Section 2.8.3 of the EIR 26 ("Alternative B"). With respect to Alternative B, the Board of Supervisors finds that the 27 alternative would result in similar impacts for most impact categories, but reduced impacts 28

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for Noise and Vibration as compared to the Proposed Project. Aesthetics impacts under Alternative B would be significant and unavoidable, but would be reduced compared to the Proposed Project. Further, Alternative B meets these critical project objectives and has been determined to be acceptable by the Applicant. Accordingly, the Board of Supervisors has determined it should approve Alternative B instead of approving the originally Proposed Project or one of the other alternatives. The significant and unavoidable impacts of Alternative B are overridden by Project benefits as set forth within the Statement of Overriding Considerations below and the Board hereby denies the original Proposed Project in favor of Alternative B: Reduced Footprint Alternative.

The evidence supporting these findings is presented in Chapters 3.02 through 3.19 and Chapter 5 of the EIR and elsewhere in the administrative record as a whole.

C. Alternative A1, A2, and A3: No Project Alternative -No Development Alternative

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- 13. This alternative evaluated the environmental impacts under three scenarios: a no build alternative (A1), development of uses allowed by right within the existing zoning and land designations (A2), and development of other renewable energy within the existing zoning and land designations (A3).
- 14. With respect to the Alternative A1: No Project Alternative-No Build Alternative, the construction of a solar generating facility and associated infrastructure would not occur. Project objectives are not attained because no development is included as a part of this alternative. With respect to the significant unavoidable impacts of the Project (project-level and cumulative aesthetics impacts and cumulative cultural resources impacts), this alternative would avoid all the unavoidable significant impacts of the Project; however, it would not achieve any of the environmental benefits of increasing renewable energy generation and it would not generate substantial benefits to the County and local economy, by providing new jobs and additional tax revenues. None of the Project objectives would be met under this alternative.

15. The Board of Supervisors rejects as infeasible Alternative A1, the No Project Alternative-No Development Alternative on the following ground, which individually provides sufficient justification for rejection of this alternative: (1) Alternative A1 fails to meet any of the Project objectives. Therefore, Alternative A1 is eliminated from further consideration.

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- 16. With respect to Alternative A2, No Project Alternative-Uses Allowed by Right within Existing Land Designations, the only uses that may occur on both Federal and County land would not require discretionary approvals from either jurisdiction. Given this limitation, BLM lands would not be developed under Alternative A2, since any development on BLM lands requires a discretionary decision from the agency. In contrast, lands under County jurisdiction have various allowed uses as identified in the zoning code that do not require discretionary approval by the County, such as one-family dwellings, water works, a wide range of agricultural activities and structures, parks and playgrounds, mining, outside storage of farming equipment, and employee housing. Under Alternative A2, no substantially adverse and long term impacts would occur; however, Alternative A2 would not achieve any of the environmental benefits of renewable energy generation or any of the other Project objectives.
- 17. The Board of Supervisors rejects as infeasible Alternative A2, the No Project Alternative-Uses Allowed by Right within Existing Land Designations Alternative on the following ground, which individually provides sufficient justification for rejection of this alternative: (1) Alternative A2 fails to meet any of the Project objectives. Therefore, Alternative A2 is eliminated from further consideration.
- 18. With respect to Alternative A3, Other Renewable Energy Development within Existing Land Designations, the DFA designation of the BLM-administered land allows development of wind or geothermal generation, as well as solar. Wind development would cause a severe aesthetic impact from the presence of turbines and night lighting. Geothermal development would require intensive drilling of

wells, which would also be visually significant. Both of these alternative technologies would have greater impacts when compared to the Proposed Project related to Biological Resources, Hazards and Hazardous Materials, Hydrology and Water Quality, Land Use and Planning, Noise and Vibration, and Population and Housing. Alternative A3 would have a significant and unavoidable aesthetic impact, greater than the Proposed Project.

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19. The Board of Supervisors rejects as infeasible Alternative A3, Other Renewable Energy Development within Existing Land Designations, on the following grounds, which provides sufficient justification for rejection of this alternative: (1) although the renewable power generation that could occur with this alternative is consistent with the project objectives relating to climate change and renewable energy, the wind component could generate only about 12% of the electricity of the proposed Project due to the larger land areas required for this technology and, therefore, fails to meet the Project Objectives to the same extent as the Project; (2) the geothermal and wind technologies that could be permitted on DFA-designated lands would have numerous significant impacts, conflicting with the objective of minimizing environmental impacts. Therefore, Alternative A3 is eliminated from further consideration.

D. Alternative C: Further Reduced Footprint Alternative with Berms

1. This alternative would modify the proposed Project by establishing a minimum buffer zone setback of one mile from the Lake Tamarisk Desert Resort border, installing earthen berms in two locations, and relocating the onsite substation, BESS, O&M building, and gen-tie line. This alternative would eliminate the significant aesthetics impacts of the proposed Project from the Lake Tamarisk Desert Resort residences, but it would increase the severity of public views from State Route 177 (Rice Road) due to the substation/BESS location, such that aesthetics impacts would remain significant and unavoidable. In addition, constructing and maintaining the berms would be challenging given the anticipated level of erosion from wind and rainstorms, and the berms would

redirect surface water flood flows in a manner that could create more severe erosion downstream.

 The loss of 530 acres of development under Alternative C would result in a loss of 80 MW to 110 MW of energy generation, as compared to the proposed Project, for a total maximum output between 290 MW to 320 MW.

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- 3. Although the impacts would be largely similar, the aesthetic impacts would be fewer than the Proposed Project, specifically reducing the significant impact on the Lake Tamarisk Desert Resort; however, visual impacts would remain significant and unavoidable and the impacts to viewers from State Route 177 would be more severe. There would be fewer impacts on biological resources due to the buffer/reduction in ground disturbance by 530 acres compared to the proposed Project, but the alternative would have greater impacts on surface water flows due to the berms.
- 4. The Board of Supervisors rejects Alternative C, the Further Reduced Footprint Alternative with Berms, on the following grounds which provides sufficient justification for rejection of this alternative: (1) Alternative C would not avoid the significant and unavoidable aesthetic impacts and cumulative tribal cultural and cultural resources impacts that would occur under the proposed Project, (2) Alternative C would result in a reduction of 80 to 110 MW of renewable energy compared to the proposed Project, which reduces its compliance with the most important project objectives (meeting State and federal renewable energy goals to counter climate change) (EIR Section 5.3.3.2 and 5.3.5), (3) Alternative C would achieve most of the project objectives, which include the provision of environmental benefits, to a lesser extent compared with the proposed Project, as it would generate and store a significantly smaller amount of renewable energy compared with the proposed Project, the energy would be less affordable, and because of its smaller size, it would create fewer jobs and tax revenues. Therefore, Alternative C is eliminated from further consideration. Alternative D: Offsite Alternative.

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5. This alternative would require installing solar panels on BLM-managed lands east of State Route 177. The location of this development would eliminate the significant visual impacts of the proposed Project and its visibility from the Lake Tamarisk Desert Resort. However, it would require development within the extremely sensitive habitats of the sand transport corridor and within a BLM DRECP-designated wildlife linkage, which support special-status plant and wildlife species. In order to develop the full generation of the proposed Project, development of this alternative would likely require an amendment to the BLM DRECP Land Use Plan Amendment to modify the existing requirements preventing development within the sand transport corridor. Such an amendment would allow development but would likely result in significant impacts to the species and habitats. This alternative would also likely have more severe impacts to cultural resources due to its proximity to Palen Dry Lake, and it would result in severe dust and erosion due to disturbance of the sand transport corridor.

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- 6. The Board of Supervisors rejects Alternative D on the grounds that Alternative D would create substantially greater impacts to biological resources and greater impacts to cultural and tribal cultural resources, air quality, and erosion compared to the proposed Project and other alternatives. (**EIR Sections 5.2.7 and 5.3.3.4**).
- F. Alternative E: Distributed Commercial and Industrial Rooftop Solar Alternative.

7. This alternative would involve the development of a large number of geographically distributed small to medium solar PV systems within existing developed areas throughout Riverside County. PV systems would be installed typically on the rooftops of commercial and industrial facilities. Because no new land would be developed or altered, this alternative would result in no habitat loss or grading, and aesthetics impacts would be minor in the context of existing development. Installation and maintenance would result in vehicle emissions and traffic increases similar to the proposed Project, but they would occur in a widely dispersed geographic area. Because this alternative would be included with

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the proposed Project, it would not meet project objectives related to extending renewable energy availability into the evening hours.

8. Alternative E would reduce aesthetics and cultural and tribal cultural resources impacts.

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9. The Board of Supervisors rejects Alternative E on the grounds that Alternative E would not generate wholesale renewable energy to support California's ratepayers. Further, because this alternative would not include installation of 650 MW of battery storage that would be included with the proposed Project, it would not meet project objectives related to extending renewable energy availability into the evening hours. Given the distributed nature of such a network of facilities, construction, management, and maintenance would not be as efficient, and total capital costs would likely be higher. The Project proponent also does not have immediate control or access to potential urban sites that could accommodate facilities to generate the solar power, and a distributed system on the scale of the 400 MW project would be practically infeasible for one developer to implement due to the need to arrange a suitable assemblage of participating commercial and industrial properties. It is impractical and infeasible for the Project proponent to assemble such a disparate range of properties and to construct a distributed generation project of this scale and still proceed within a reasonably similar timeframe. (EIR Sections 5.3.3.2).

G. Environmentally Superior Alternative.

Section 15126.6(e)(2) of the State CEQA Guidelines indicates that an analysis of alternatives to a proposed Project shall identify an environmentally superior alternative among the alternatives evaluated in an EIR. This issue is evaluated in Chapter 5.3 of the EIR. Here, Alternative A1, the No Build Alternative is the environmentally superior alternative. However, CEQA Guidelines. Section 15126.6(e)(2) states that if the environmentally superior alternative is the "no project" alternative, the EIR shall also identify an environmentally superior alternative among the other alternatives. Aside from the No Build Alternative, Alternative C, the Further Reduced Footprint Alternative with Berms is the environmentally superior alternative. While the proposed Project and Further Reduced

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Footprint Alternative with Berms -would both create significant visual impacts from the solar facility to travelers along SR177, the Further Reduced Footprint Alternative with Berms includes a minimum 1-mile buffer to minimize visual impacts to the Lake Tamarisk Desert Resort residences, and the impact would be less than significant for these viewers. The Further Reduced Footprint Alternative with Berms would result in fewer impacts to aesthetics, fewer impacts due to construction noise, and less ground disturbance than the proposed Project. However, when compared to the proposed Project, this alternative would create more severe impacts to viewers from SK-177, and would reduce the amount of energy that could be generated by the project by approximately 80 to 110 MW. The reduction in energy generation would reduce the Project's compliance with the most important project objectives of meeting the State and federal renewable energy goals, as it would generate and store a significantly smaller amount of renewable energy compared with the proposed Project. The energy generated under Alternative C would be less affordable, and the alternative would create fewer jobs and tax revenues. The next most Environmentally Superior Alternative would be Alternative B, Reduced Footprint Alternative, because it meets the critical project objectives, and reduces impacts to the Lake Tamarisk Desert Community compared to the proposed Project.

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The EIR also considered alternatives that were rejected from further analysis on grounds they were infeasible.

First, an alternative located entirely on BLM lands was considered in the EIR but then rejected from further analysis because it is likely to have more severe biological, cultural, and visual resource impacts, as it would likely be located on undisturbed lands and may be a greater distance to existing transmission infrastructure required for interconnection. Also, it may not be feasible to find an alternative site on BLM-managed lands, because most of the land within the DFA is in use, proposed for other solar energy projects, or within mountainous areas and areas with hydrological concerns. Site control is also an issue, given that the DRECP and BLM Rents and Bonds Policy require a competitive auction to secure land within DFAs and BLM has yet to conduct one for sites in Riverside County. Other

alternative BLM lands east of the Lycan Project are not designated as DFA in the DRECP LUPA. These lands are within the Palen Ford Area of Critical Environmental Concern (ACEC) and the Chuckwalla ACEC, both of which preclude development of solar facilities. In addition, a site east of the Lycan Project would require an additional or relocated 500 kV gen-tie line that would be over 20 miles long, which would create significant visual impacts along the Interstate 10 corridor.

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Second, an all private land project alternative was considered in the EIR but then rejected from further analysis because it is considered speculative and infeasible based on the number of landowners whose agreement would be required. An alternative site option, that is currently an operating fish farm was considered, but the Applicant was unable to obtain site control by the landowner. In addition, another site would likely have environmental impacts equal to or greater than the proposed site, which is located primarily on disturbed land and is surrounded by BLM-administered land that is within the DRECP DFA, and thus, targeted for renewable energy development.

Additionally, alternative solar technologies and renewable energy technologies were considered in the EIR but then rejected from further analysis because they are not within the Applicant's area of expertise and so would not be technically or economically feasible for the Applicant to implement. These other technologies also would not result in a substantial reduction in impacts and visual impacts would likely be greater for some technologies (e.g., solar power tower, solar parabolic through technology, wind turbines). Furthermore, energy conservation and demand-side management alternatives were considered in the EIR but then rejected from further analysis because they are not technically feasible as a replacement for the proposed Project as California utilities are required to achieve aggressive energy efficiency goals. Affecting consumer choice to the extent that would be necessary for a conservation and demand-side management solution would be beyond the County, BLM and/or the Applicant's control. Even if additional energy efficiency beyond that occurring in the baseline condition may be technically possible, it is speculative to assume that energy efficiency alone would achieve the necessary greenhouse gas reduction goals. With

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population growth and increasing demand for energy, conservation and demand management alone is not sufficient to address all of California's energy needs. Furthermore, conservation and demand-side management would not by themselves provide the renewable energy required to meet the California renewable energy goals, a stated Project objective. Therefore, conservation and demand-side management has been eliminated from detailed analysis because it is considered remote or speculative and would not meet the stated Project objectives. Finally, an underground 500-kV gen-tie lines was considered but rejected from further analysis, as underground construction and trenching would involve much greater ground disturbance and construction-related impacts (traffic, air quality and dust, and noise), as well as greater potential to encounter contaminated soils and cultural resources, and to impact biological resources and cultural resources due to the greater ground disturbance. The dust and equipment emissions associated from installation of a 500 kV underground line also would greatly exceed the emissions of overhead tower construction.

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No other reasonable and feasible alternatives were identified during the environmental review process for consideration.

BE IT FURTHER RESOLVED by the Board of Supervisors that it has, pursuant to State CEQA Guidelines section 15093, balanced the "economic, legal, social, technological, and other benefits" of Alternative B: Reduced Footprint Alternative, as described in Section 2.8.3 of the EIR ("Alternative B") against the unavoidable adverse environmental effects described herein, and has determined that each and every one of the following benefits individually outweigh and render acceptable each and every one of those environmental effects:

B. While Alternative B would create significant visual impacts and result in cumulatively considerable visual impacts to cultural and tribal cultural resources, Alternative B has been located to minimize environmental impacts and land disturbance associated with solar development by siting the facility on relatively flat, contiguous lands with high solar insolation, in close proximity to established utility corridors, existing transmission lines with available capacity to facilitate interconnection and road access. Alternative B also removes approximately 50 acres of solar panels closest to the Lake Tamarisk community and moves

Attachment 4, Page 258 of 267

the on-site substation and BESS at least 0.7 mile to the northeast and farther from the Lake Tamarisk community to reduce visual impacts. The surrounding federal lands are designated as a "Development Focus Area" in order to allow for development of solar energy generation and appurtenant facilities on public lands in this specific area. Furthermore, construction and operation of Alternative B would bring jobs to eastern Riverside County and would assist California with achieving its renewable energy generation goals. Given the location of Alternative B on disturbed land in an area identified for solar generation, Alternative B's renewable energy and economic benefits would outweigh the unavoidable adverse environmental impacts on visual resources and cultural and tribal cultural resources.

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C. Alternative B includes up to 650 MW of battery energy storage that will have the beneficial effect of shifting a portion of the renewable energy generation into the evening hours, reducing the output of fossil fuel-burning resources that would otherwise be used to meet demand during peak load periods. Although the result will vary depending on how the storage is dispatched, the relative scale of greenhouse gas (GHG) emissions avoided with Alternative B would be greater than the scale of the other Alternative B effects on GHG emissions. Alternative B's renewable energy generation would, overall, result in a reduction in net GHG emissions over its life. The approval of Alternative B will contribute to the state's ability to reach its climate goals.

D. Alternative B would provide local employment and economic opportunities for residents of Riverside County, thereby serving to increase economic opportunities. During the 20-month construction period, the on-site workforce is expected to reach peak of approximately 530 individuals with an average construction-related on-site workforce of approximately 320 individuals. Riverside- County has the largest concentration of construction workers close to the Project area. During operations, up to 10 permanent staff could be on the site at any one time for ongoing facility maintenance and repairs. These staff would also likely be sourced from Riverside County. Riverside County overall is housing rich/jobs poor, with an even greater housing rich/jobs poor condition in the unincorporated areas. It is expected that the majority of the new long-term jobs as well as the short-term construction jobs would be filled by the existing labor force available in the County of Riverside, as the County has a shortage of jobs.

E. Alternative B will maximize the use of a currently underutilized site and promote the efficient use of land, while still providing natural open space consistent with the rural identity of the community.

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- F. Alternative B will bring significant tax and other revenues to Riverside County, contributing sales tax revenue and development impact fees for use by the Board to benefit the residents of the County.
- G. Alternative B will enhance existing electrical distribution infrastructure and provide greater support to existing and future customer loads to ensure Southern California Edison can provide power to all customers, including customers in Riverside County.

BE IT FURTHER RESOLVED by the Board of Supervisors that the State CEQA Guidelines section 15126(g) requires an EIR to discuss how a proposed project could directly or indirectly lead to economic, population, or housing growth. A project may be growth inducing if it removes obstacles to growth, taxes, community service facilities, or encourages other activities which cause significant environmental effect. EIR No. SCH2022110240 evaluated impacts of the Proposed Project as defined in Section ES.3 and Chapter 2 of the EIR. The Applicant's Preferred Project is now Alternative B: Reduced Footprint Alternative, as described in Section 2.8.3 of the EIR ("Alternative B"). Alternative B is similar to the originally Proposed Project but would remove approximately 50 acres of solar panels, move the on-site substation and BESS at least 0.7 mile to the northeast and farther from the Lake Tamarisk community, and would increase the length of the gen-tie line by approximately 0.8 mile. Because Alternative B has a smaller footprint but otherwise similar characteristics and impacts as described in Table 5-1 of the EIR, the following findings with respect to the Proposed Project are also applicable to Alternative B. The discussion is as follows:

A. The Project does not include the development of housing and therefore, would not directly induce population growth. The proposed Project would result in the conversion of substantial land areas to a new type of land use. The proposed Project would be constructed within an area covered by the Riverside County General Plan and Desert Center Area Plan, and the proposed Project would be a

Attachment 4, Page 260 of 267

conditionally permitted use. The proposed Project would not result in the establishment of an essential public service, and it would not provide new access to a previously inaccessible area. As a result, the proposed Project would not cause significant growth inducement.

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Short-term economic growth could occur during the construction and decommissioning periods because the proposed Project and the construction schedules of multiple overlapping projects could create a demand for workers that may not be met by the local labor force, thereby inducing inmigration of non-local labor and their households. Construction of the proposed Project alone would not create long-term jobs, however; therefore, the construction phase of the project is not considered to be growth inducing. Given the number of solar projects proposed in the Desert Center area, workers may stay on and continue to work in the area following construction of the proposed Project if jobs on other solar projects are available. Following construction, up to 10 permanent staff could be on the site at any one time for ongoing solar facility maintenance and repairs, and no new permanent personnel are anticipated to be added to operate and maintain the gen-tie line. The Project workforce could contribute to an increase in tax revenues for the State of California and Riverside County; however, the limited permanent employment expansion would not result in the need for new or physically altered community-serving facilities. As a result, the proposed Project would not be growth-inducing for its effects on economic expansion or growth.

B. The proposed Project would be a conditionally permitted use, resulting in the development of a solar facility and gen-tie line in the vicinity of other existing and approved solar projects. The Project would be similar to other cumulative projects in eastern Riverside County, many of which are identified as past and present projects or probable future projects (EIR Section 3.1.2, Cumulative Impact Scenario). The Project would not establish a precedent-setting action such as a change in zoning or general plan amendment. Therefore, the proposed Project would not be growth inducing.
C. The proposed Project would result in a change to undeveloped land in an area surrounded by proposed, existing or under-construction solar projects. The proposed Project, as with a number of adjacent solar projects, would be located on private lands and BLM-administered lands designated as a DFA to allow for development of solar energy generation and appurtenant facilities on public lands in this specific area. The Project would not encroach into lands planned for future residential

development. The proposed Project does not involve the development of a residential component that would result in direct population growth in the area. Additionally, the Project would not involve the development of new roadways, water systems, or sewer systems. Infrastructure improvements to serve the Project would be limited and would not be available to serve surrounding areas. Therefore, the proposed Project would not result in growth inducement through development or encroachment into an isolated area or open space.

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BE IT FURTHER RESOLVED by the Board of Supervisors that Alternative B: Reduced Footprint Alternative will implement applicable elements of the Riverside County General Plan as follows: A. Land Use Element.

> Analysis of applicable policies of the Land Use Element is presented throughout EIR No. SCH2022110240 and concludes that the Project would not conflict with any applicable policy of the General Plan Land Use Element (EIR Chapter 3.12, Land Use and Planning). Alternative B is similar to the Proposed Project but would remove approximately 50 acres of solar panels, move the on-site substation and BESS at least 0.7 mile to the northeast and farther from the Lake Tamarisk community, and would increase the length of the gen-tie line by approximately 0.8 mile. Because Alternative has a smaller footprint but otherwise similar characteristics and impacts as described in Table 5-1 of the EIR, Alternative B also would not conflict with any applicable policy of the General Plan Land Use Element. Furthermore, Alternative B complies with all design standards for the proposed land use designation and considers the unique characteristics and features of the Project site and surrounding community. Alternative B is consistent with the General Plan Land Use Element and is therefore consistent with the General Plan.

B. <u>Circulation Element</u>.

Alternative B will construct or contribute its fair share of the costs associated with the repair of roadways, as needed. Alternative B will implement mitigation measures that address project-specific and cumulative transportation and traffic impacts, and based thereon, the Board of Supervisors finds that Alternative B is consistent with the General Plan Circulation Element. All required improvements that are directly attributable to Alternative B would be

constructed as part of the project, and fair share costs would be contributed through payment of the TUMF, and the County's Development Impact Fee. Alternative B is consistent with the General Plan Circulation Element and is therefore consistent with the General Plan.

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C. <u>Multipurpose Open Space Element</u>.

The Multipurpose Open Space Element of the General Plan describes an open space system which includes methods for the acquisition, maintenance, and operation of a variety of open spaces. The County's open spaces are utilized for visual relief, natural resources protection, habitat protection, recreational uses, and protection from natural hazards for public health and safety. Alternative B would be a conditionally permitted use within the land use designation Open Space Rural (OS-RUR), and Natural Assets (N-A), with approval of a CUP and completion of an environmental review. Table 3.12-1 of the EIR describes how the Project would be consistent with the Land Use and Multi-Purpose Open Space Elements. Alternative B is similar to the Proposed Project but would remove approximately 50 acres of solar panels, move the on-site substation and BESS at least 0.7 mile to the northeast and farther from the Lake Tamarisk community, and would increase the length of the gen-tie line by approximately 0.8 mile. Because Alternative has a smaller footprint but otherwise similar characteristics and impacts as described in Table 5-1 of the EIR, Alternative B also would be consistent with the Land Use and Multi-Purpose Open Space Elements.

The applicant is also seeking to vacate interior roadways and merge contiguous Project parcels. Roads along the Project perimeter on the solar facility lands would remain dedicated public access. This merger would be consistent with LU 26.4, encourage parcel consolidation, and because the perimeter roads would remain open to the public, it would not result in a loss of access.

The existing and known planned land uses surrounding Alternative B are similar in nature to those identified for the project, primarily Open Space Rural. The parcels in the vicinity of the solar facility are zoned N-A, W-2-10, A-1-20 (Light Agriculture [20-acre minimum]), C-P-S (Scenic Highway Commercial), M-H (Manufacturing Heavy), all of which allows solar power development on a lot 10 acres or larger with a CUP. Therefore, Alternative B is

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found consistent with the General Plan's Multipurpose Open Space Element and is therefore consistent with the General Plan.

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D. Safety Element.

Alternative B shall comply with all applicable building codes, County Ordinances, and State and Federal laws. Alternative B complies with all applicable provisions of the Alquist-Priolo Earthquake Fault Zoning Act. A geotechnical investigation and report would be required and would include recommendations regarding geotechnical and engineering design. Structures would be designed in accordance with the County of Riverside Building Code and the most recent CBC and would be consistent with the recommendations outlined in the geotechnical report to be prepared for the project. Compliance with existing regulatory requirements and implementation of geotechnical design recommendations in the project's final engineering design would reduce potential safety hazards to a less than significant level. In addition, the project would not be subject to significant flood or dam inundation. The project also would comply with all applicable standards for fire safety and be consistent with the Riverside County Fire Protection Master Plan. Furthermore, the project would not conflict with any disaster preparedness plans nor subject individuals to significant risk of loss, injury, or death involving wildland fires, erosion, seismic activity, blow-sand, or flooding. Alternative B is consistent with the General Plan Safety Element and is therefore consistent with the General Plan.

E. <u>Noise Element</u>.

The impacts with regards to temporary and permanent noise of Alternative B will be reduced to less than significant levels with implementation of Mitigation Measures MM N-1 through MM N-3 and compliance with applicable DRECP CMAs. With implementation of the recommendations provided in the noise impact analysis and the required mitigation measures and CMAs, Alternative B would be consistent with the General Plan Noise Element and is therefore consistent with the General Plan.

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F. Air Quality Element.

The project-specific evaluation of emissions demonstrates that construction-phase maximum daily emissions would be above the SCAQMD regional thresholds of significance for NOx and PM10 if no project-specific mitigation measures are implemented. Because construction emissions without mitigation would be below the thresholds for CO and SO2, the project would not violate any air quality standard or contribute substantially to an existing or projected air quality violation for these pollutants. Concurrent construction of other projects in close proximity to the proposed site could result in increased local air quality impacts for the limited duration of simultaneous construction activities.

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With implementation of Mitigation Measures MM AQ-1 (Fugitive Dust Control Plan) and MM AQ-2 (Control On-Site Off-Road Equipment Emissions) and compliance with applicable DRECP CMAs, the incremental contribution of the project to the cumulative air quality impact would be reduced to less than significant during construction and would not be cumulatively considerable. Additionally, after considering the feasible mitigation, the project-related NOx emissions levels as an ozone precursor pollutant would not contribute substantially to existing violations of the California ambient air quality standard for ozone, and this impact during construction would be less than significant, ensuring that Alternative B would be consistent with the Air Quality Element and General Plan, by reducing potential air emissions to the lowest achievable level.

G. Housing Element.

The purpose of the General Plan Housing Element is to meet the needs of existing and future residents in Riverside County through the establishment of policies to guide County decision-making and to establish an action plan to meet the County's housing goals in the next seven years. Alternative B would not construct new dwellings and would not induce substantial population growth in the area. The project and the new jobs it would create would help balance the housing/jobs ratio in the area, and Alternative B would be consistent with the General Plan Housing Element and General Plan.

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H. Administration Element.

The Administration Element contains information regarding the structure of the General Plan as well as general planning principles and a statement regarding the vision for Riverside County. Alternative B would be consistent with the Administration Element policies as the project would help to achieve the purposes of the General Plan through compliance with applicable General Plan policies.

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I. <u>Healthy Communities Element.</u>

The Healthy Communities Element provides a framework for translating the General Plan vision for a healthy Riverside County into reality by identifying policies to achieve that vision. The Healthy Communities Element addresses areas where public health and planning intersect, including transportation and active living, access to health care, mental health, quality of life, and environmental health. Alternative B would be consistent with the Healthy Communities Element policies governing Overall Health, Land Use and Community Design, Transportation System, Social Capital, Complete Communities, Parks, Trails, and Open Space, as the project would help to achieve the purposes of the General Plan through compliance with applicable General Plan policies.

BE IT FURTHER RESOLVED by the Board of Supervisors that the Final EIR also discusses, pursuant to State CEQA Guidelines sections 15126(c) and 15126.2(c), significant irreversible environmental changes. EIR No. SCH2022110240 evaluated impacts of the Proposed Project as defined in Section ES.3 and Chapter 2 of the EIR. The Applicant's Preferred Alternative is now Alternative B: Reduced Footprint Alternative, as described in Section 2.8.3 of the EIR ("Alternative B"). Alternative B is similar to the Proposed Project but would remove approximately 50 acres of solar panels, move the on-site substation and BESS at least 0.7 mile to the northeast and farther from the Lake Tamarisk community, and would increase the length of the gen-tie line by approximately 0.8 mile. Because Alternative has a smaller footprint but otherwise similar characteristics and impacts as described in Table 5-1 of the EIR, the following findings with respect to the Proposed Project are also applicable to Alternative B. As provided in **EIR Sections 4.1 and 4.2**:

A. An "Energy Analysis" of the proposed Project was prepared and is included in EIR Sections 3.7 and

4.4.

B. The following summary of findings relating to energy use and efficiency, was provided in the analysis in EIR Sections 3.7 and 4.4.

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While construction would require the temporary use of energy resources, the Project would not result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction. Furthermore, implementation of Mitigation Measures AQ-2 (Control On-Site Off-Road Equipment Emissions) and applicable DRECP CMAs requires the Project to minimize unnecessary use of construction equipment so activity levels are not wasteful, for example, by requiring equipment to be properly maintained and limiting construction equipment idling, and would ensure that impacts would be less than significant.

Although the battery storage component would require the use of some energy, the output of the storage component would occur at hours of peak demand, which would have a beneficial effect of shifting the types of fuel-burning generating units on the grid that could be displaced. The energy generated by the proposed Project would be many times greater than the amount used. As such, operation of the proposed Project would result in a less-than-significant impact with respect to the inefficient consumption of energy.

Maintenance and inspection of proposed Project components would require use of fossil fuel resources. However, this limited use of fossil fuel by operational worker commutes and use of vehicles and equipment during maintenance is not considered wasteful, inefficient, or unnecessary. The proposed Project would increase the use of renewable energy, thus reducing the use of fossil fuel for electrical generation by conventional power plants. Beneficial impacts related to state or local plans for renewable energy or energy efficiency would occur.

BE IT FURTHER RESOLVED by the Board of Supervisors that Condition Use Permit No. 220021 (CUP220021), Public Use Permit No. 230002 (PUP230002), and Development Agreement No. 2200016 (DAN2200016), which collectively authorize development of Alternative B on private lands under the jurisdiction of the County, are consistent with the Riverside County General Plan.

BE IT FURTHER RESOLVED by the Board of Supervisors that it has reviewed and considered EIR No. SCH2022110240 in evaluating Condition Use Permit No. 220021 (CUP220021), Public Use Permit No. 230002 (PUP230002), and Development Agreement No. 2200016 (DAN2200016); and, that EIR No. SCH2022110240 is an accurate and objective statement that complies with the California Environmental Quality Act and reflects the County's independent judgment, and that EIR No. SCH2022110240 is incorporated herein by this reference.

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BE IT FURTHER RESOLVED by the Board of Supervisors that it **ADOPTS** the statement of overriding consideration for Alternative B: Keduced Footprint Alternative, **CERTIFIES** EIR No. SCH022110240, and **ADOPTS** the Mitigation Monitoring and Reporting Plan attached as Attachment A hereto. To the extent that there are any inconsistencies between the mitigation measures as set forth in EIR No. SCH2022110240, and those set forth in the Mitigation Monitoring and Reporting Program, whichever measure is deemed more protective of the environment shall control.

BE IT FURTHER RESOLVED by the Board of Supervisors that copies of Condition Use Permit No. 220021 (CUP220021), Public Use Permit No. 230002 (PUP230002), and Development Agreement No. 2200016 (DAN2200016); shall be placed on file in the Office of the Clerk of the Board, in the Office of the County Planning Department, and the Office of the Building and Safety Director.

BE IT FURTHER RESOLVED by the Board of Supervisors that the custodian of the documents upon which this decision is based are the Clerk of the Board of Supervisors and the County Planning Department and that such documents are located at 4080 Lemon Street, Riverside, California.



Finance, Affordability, Asset Management and Efficiency Committee

Intersect Power, LLC License Agreement

Item 7-9 March 11, 2025



Overview of the License Agreement

Subject

Review and consider the County of Riverside Final Environmental Impact Report certified by the Lead Agency, adopt the Lead Agency's findings, and authorize the General Manager to execute a thirty-year license agreement with Intersect Power, LLC for renewable energy infrastructure purposes on Metropolitan feeowned property in the County of Riverside Purpose

Establish rights to construct and operate renewable energy infrastructure



Service Area & CRA Map



March 11, 2025

Finance, Affordability, Asset Management and Efficiency Committee

General Location Map



Finance, Affordability, Asset Management and Efficiency Committee

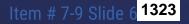
Site Map



Finance, Affordability, Asset Management and Efficiency Committee

Key Provisions

- Subject to Metropolitan's paramount rights provision
- License area of 12,862 sq. ft.
- Term of 30 Years
- One-time processing fee of \$8,000
- Nominal license fee of \$2,500 per year
- Reappraisal every 5 Years
- Annual fee increases of 4%



Board Options

Option No. l

<u>Review and consider the County of Riverside</u> Final Environmental Impact Report certified by the Lead Agency, adopt the Lead Agency's findings, and authorize the General Manager to execute a thirty-year license agreement with Intersect Power, LLC for renewable energy infrastructure purposes on Metropolitan fee-owned property in the County of Riverside

Option No. 2

Do not approve the new license agreement.

Board Options

Staff Recommendation

• Option No. l







THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Action

• Board of Directors Legal and Claims Committee

3/11/2025 Board Meeting

7-11

Subject

Authorize an increase of \$100,000, to an amount not to exceed \$600,000, for a contract for legal services with Hanson Bridgett LLP to provide legal advice on deferred compensation plans, other employee benefits, taxes, and CalPERS matters; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

The General Counsel entered into a contract with the law firm of Hanson Bridgett LLP (Hanson Bridgett), as special counsel, on November 1, 2017, for the amount of \$100,000 to provide Metropolitan with legal, tax, and benefits advice on Metropolitan's deferred compensation plans and other employee benefits. The firm has specialized expertise and has assisted Metropolitan in the operation of its deferred compensation program and advised on related tax issues. The Board authorized contract increases in 2018, 2020, 2021, and 2022, bringing the current not-to-exceed amount to \$500,000. The firm's assistance will be required going forward to assist with legally required changes to the plans, and review of various procedures relating to deferred compensation and other employee benefits. Staff's experience is that the workload remains constant and the current cost incurred is approximately \$70,000 per year.

Proposed Action(s)/Recommendation(s) and Options

Staff Recommendation: Option #1

Option #1

Authorize the General Counsel to increase the amount payable under its contract with Hanson Bridgett LLP by \$100,000 to an amount not to exceed \$600,000.

Fiscal Impact: \$100,000 for the provision of the authorized legal services

Business Analysis: Metropolitan will obtain specialized legal expertise for its deferred compensation plans. tion #2

Option #2

Do not authorize an increase in the maximum amount payable under this contract with Hanson Bridgett LLP. **Fiscal Impact:** No known fiscal impact

Business Analysis: Metropolitan will not obtain specialized legal expertise for its deferred compensation plans.

Alternatives Considered

Not applicable

Applicable Policy

Metropolitan Water District Administrative Code Section 6430: General Counsel Powers and Duties

Metropolitan Water District Administrative Code Section 6810: Employee Deferred Compensation and Savings Plans

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

Related Board Action(s)/Future Action(s)

Not applicable

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed action is not defined as a project under CEQA because it will not result in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment. (State CEQA Guidelines Section 15378(a)).

CEQA determination for Option #2:

None required

Details and Background

Background

The General Counsel entered into a contract with the law firm of Hanson Bridgett LLP (Hanson Bridgett), as special counsel, on November 1, 2017, for the amount of \$100,000 to provide Metropolitan with legal, tax, and benefits advice on Metropolitan's deferred compensation plans and other employee benefits. Because it is an area of specialized expertise, Metropolitan has regularly retained special counsel for its deferred compensation plans. Hanson Bridgett has expertise and experience in public agency deferred compensation programs. The firm also has expertise in and provides advice on other tax, employee benefits, and CalPERS matters. The firm also provides Metropolitan with current legislative and regulatory guidance on new laws, IRS rules, and U.S. Treasury regulations.

In 2018, Metropolitan selected a new record keeper and amended its deferred compensation plans. Hanson Bridgett assisted in these efforts, including review of record keeper related agreements and the incorporation of numerous changes to the plans requested by the participants.

In 2019, Metropolitan further updated its deferred compensation plans to expand plan features for participants and streamline plan administration. Hanson Bridgett assisted in these efforts and advised on several issues, such as de minimis account forfeitures, plan rollovers and deferral contributions. The firm also assisted with the development of a managed account services agreement to offer online and personal account management advice to plan participants.

In 2020, Metropolitan enhanced its plans' operations to make the plans' features more convenient for participants. Hanson Bridgett assisted in these efforts and advised on many topics, such as automated loan payments, electronic signatures on plan forms, and unified beneficiary designation rules and procedures. The firm also advised Metropolitan on the incorporation of COVID-19 loans and hardship distribution rules for qualified participants.

In 2021 and 2022, Metropolitan automated its required minimum distribution procedures and drafted plan amendments to allow qualified birth and adoption distributions and lower the 457(b) plan in-service distribution age limit to age 59½. As requested by participants, it also added environmental social governance funds to its fund lineup and provided non pro rata options for partial distributions. Hanson Bridgett assisted in these efforts and advised on other issues, such as plan loan offsets, death benefits determinations, and after-tax Roth deferrals

for participants. They also advised on employee benefits matters, such as employer tax credits for family and sick leave coverage.

In 2023 and 2024, Metropolitan restructured and streamlined plan governance, including amending the Administrative Code and establishing an investment committee with governing bylaws. It also implemented Roth deferral accounts and provided retirees the option to consolidate plan accounts. Hanson Bridgett assisted in these efforts and advised on the mandatory and optional provisions of Secure Act 2.0, on properly designating trust and wills as beneficiaries, and on how the plan expense account may be applied, for example, to provide fiduciary training.

In September 2018, March 2020, March 2021, and December 2022, the Board authorized increases of \$100,000 for a current not-to-exceed amount of \$500,000. Upcoming efforts will include amending the plans under Secure Act 2.0, which will, among other things, streamline operations by eliminating inadvertent overpayment recovery and expanding the use of IRS self-correction rules to make minor corrections, will clarify rules that allow charitable remainders, and will allow for the adoption of new plan features that simplify federal disaster relief and lower penalties for failing to timely take required distributions. Hansen Bridgett will assist in these plan amendments.

Staff requests authority to increase the maximum amount payable pursuant to this contract by \$100,000 to an amount not to exceed \$600,000 so that Hanson Bridgett may continue to assist Metropolitan with its deferred compensation plans and related legal services.

While the rate of expenditure is dependent upon the need for expert assistance, it is anticipated that the proposed increase will be adequate for up to one additional year.

ully 3/4/2025 Date

General Counsel

Ref# I12707383LC



Legal & Claims Committee

Request for Additional Funds for Outside Counsel Hanson Bridgett LLP

Item 7-11 March 11, 2025 Special Counsel

Request for Additional Funds for Special Counsel

Authorize an increase of \$100,000, to an amount not-to-exceed \$600,000, for a contract for legal services with Hanson Bridgett LLP to provide legal advice on deferred compensation plans, other employee benefits, taxes, and CalPERS matters.



401(k) and 457(b) Plans and Employee Benefits Specialize in 401(k) and 457(b) Plans and Employee Benefits

- Regularly retain for Deferred Compensation Plans and Employee Benefits
- First retained in 2017
- Increased contract maximum authorized in 2018, 2020, 2021, and 2022

Primary Use is for Deferred Compensation

- Plan updates and features
- Service agreements
- Best practices and procedures
- New laws, IRS Rules, and U.S. Treasury regulations



Going Forward

- Secure Act 2.0 Plan Amendments
- Routine Advisories
- Plan Administration
- Investment Committee

Other Uses

• Tax

- Other Employee Benefits
- CalPERS Matters



Board Options

• Option #l

Authorize the General Counsel to increase the amount payable under its contract with Hanson Bridgett LLP by \$100,000 to an amount not-to-exceed \$600,000.

• Option #2

Do not authorize an increase in the maximum amount payable under this contract with Hanson Bridgett LLP.



Staff Recommendation

• Option #l













THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Action

• Board of Directors Legal and Claims Committee

3/11/2025 Board Meeting

7-12

Subject

Approve amendments to the Metropolitan Water District Administrative Code to modify the structure and duties of various committees and the roles of specified board and committee officers; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

The proposed amendments to Administrative Code Division II, Chapters 2, 3, and 4, Division IV, Chapters 3 and 5, Division V, Chapters 1 and 3, Division VI, Chapters 1, 2, 3 and 4, Division VII, Chapter 4, and Division VIII, Chapter 2 will update the Code to modify the structure and functions of various committees and the roles of specified board and committee officers to provide greater clarity and operational flexibility and to conform the committee structure to the current workload and priorities of the Board.

Proposed Action(s)/Recommendation(s) and Options

Staff Recommendation: Option #1

Option #1

Approve amendments to the Metropolitan Water District Administrative Code to modify the structure and duties of various committees and the roles of specified board and committee officers

Fiscal Impact: None

Business Analysis: Will provide clarity and conform the committee structure to the current workload and priorities of the Board.

Option #2

Do not approve amendments to the Metropolitan Water District Administrative Code to modify the structure and duties of various committees and the roles of specified board and committee officers

Fiscal Impact: None

Business Analysis: Will not provide clarity or conform the committee structure to the current workload and priorities of the Board.

Alternatives Considered

Not applicable

Applicable Policy

Metropolitan Water District Administrative Code Section 2451: Duties and Functions [Legal and Claims Committee]

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

Related Board Actions

February 11, 2025, Board Letter Item 6B approving changes to modify the structure and functions of various committees and the roles of specified board and committee officers.

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed action is not defined as a project under CEQA because it involves organizational, maintenance, or administrative activities; personnel-related actions; and/or general policy and procedure making that will not result in direct or indirect physical changes in the environment. (Public Resources Code Section 21065; State CEQA Guidelines Section 15378(b)(2) and (5)).

CEQA determination for Option #2:

None required

Details and Background

A. Past Actions Recommended by the Chair and Approved by the Board on February 11, 2025, in Board Letter Item 6B Modifying Committee Structures and Functions.

The following changes to Standing Committee and to Ad Hoc Committees were recommended by the Chair and approved by the Board.

Board-Approved Standing Committee Changes

- The Audit Subcommittee of the Executive Committee will become the Audit Committee.
- The Ethics, Organization and Personnel Committee will become the Organization, Personnel and Effectiveness Committee, focusing on personnel matters, bargaining unit negotiations, oversight of training programs, and recruitment programs.
- The Equity, Inclusion and Affordability Committee will become the Community and Workplace Culture Committee.
- The Finance and Asset Management Committee will become the Finance, Affordability, Asset Management, and Efficiency Committee, assuming oversight of affordability and efficiency in addition to oversight of previously assigned financial and asset management activities.
- The One Water and Stewardship Committee will become the One Water and Adaptation Committee.

Board-Approved Ad Hoc Committee Changes

- Eliminate the Ad Hoc Committee on Bay-Delta Negotiations and the Ad Hoc Committee on Colorado River whose duties are transferred to the Subcommittee on Imported Water under the One Water and Adaptation Committee.
- Eliminate the Ad Hoc Committee on San Diego Litigation and the Ad Hoc Committee on Policy Impacts of Third-Party Changes to Member Agency boundaries because their tasks are completed.
- Create an Ad Hoc Committee on Executive Performance.
- Create an Ad Hoc Committee on Equal Employment Opportunity Investigations.
- Create an Ad Hoc Committee on Ag and Tribal Partnerships to focus on potential interstate conservation and initiatives to increase ground-storage and transfers.
- The Ad Hoc Committee on Facility Naming will become the Ad Hoc Committee on Communications and Facility Naming.

B. <u>Present Action Based on Board-approved Actions on February 11, 2025 in Board Letter Item 6B Modifying</u> Committee Structures and Functions and Which Require Amendments to the Administrative Code.

The following proposed code amendments are based on the Board-approved actions of February 11, 2025 in Board Letter Item 6B which require amendments to Metropolitan's Administrative Code. The proposed amendments are to Division II, Chapters 2, 3, and 4, Division IV, Chapters 3 and 5, Division V, Chapters 1 and 3, Division VI, Chapters 1, 2, 3 and 4, Division VII, Chapter 4, and Division VIII, Chapter 2. These amendments modify the structure and functions of various committees and the roles of specified board and committee officers to provide greater clarity and operational flexibility and conform the committee structure to the current workload and priorities of the Board. The Administrative Code is proposed to be amended as follows:

- 1. Section 2204 is amended to delete the oversight by Board Vice Chairs over fixed portfolios and to clarify their duty to act in the absence of the Board Chair. It further clarifies their ex officio membership duties on committees to which they are designated by the Board Chair. Conforming amendments are provided at Sections 2401(c) and (d).
- 2. Section 2311 is amended to require Ad Hoc Committees to provide reports to the Executive Committee as well as committees where the subjects are relevant.
- 3. Section 2400 is amended to insert the new committees, with added abbreviations, to the resulting list of Standing Committees.
 - i. Audit Committee. Conforming amendment to change the name from Audit Subcommittee is provided at Section 6450(f). New Article 3 of Division II, Chapter 4 is added for the Audit Committee. Consequently Articles 3, 4, 5, 6, 7, 8 and 9 are renumbered Articles 4, 5, 6, 7, 8, 9, and 10.
 - ii. Finance, Affordability, Asset Management, and Efficiency Committee. Conforming amendments to change the name from Finance and Asset Management Committee are provided at Sections 4304(a), (b), (c), and (d), 4305(a) and (b), 4507(g)(3), 5104(b), 5105(b), 5107(a), 5305, 8248(b) and 8257.
 - Organization, Personnel and Effectiveness Committee. Conforming amendments to change the name from Ethics, Organization and Personnel Committee are provided at Sections 2470 and 2471, 6113(a) and (b), 6121, 6208(h) and 6209(a).
 - iv. One Water and Adaptation. Conforming amendments to change the name from One Water and Stewardship Committee are provided at Sections 2480 and 2481.
 - v. Community and Workplace Culture Committee. Conforming amendment change the name from Equity, Inclusion and Affordability Committee is provided at Section 2490. Conforming amendments to change the name from Ethics, Organization and Personnel Committee are provided at Sections 6304, 6416, 6436 (b), 6450(b), 6470(a), (e), and (i), 6471(d), 6472(a) and (b), 7405(a) and (b), 7411(b), and 7412(e).

This Section 2400 is also amended to delete committees being eliminated: the Finance and Asset Management Committee and the Ethics, Organization and Personnel Committee.

- 4. Section 2402 is amended to provide greater flexibility by allowing Standing Committees with fixed meeting schedules, as specified, to meet on Monday before the regular Board meeting or on the second or fourth Tuesday of each month. Conforming amendments are provided at Sections 2430 (Engineering, Operations and Technology), 2440 (Finance, Affordability, Asset Management, and Efficiency), 2450 (Legal and Claims), 2460 (Legislation and Communications), 2470 (Organization, Personnel and Effectiveness), 2480 (One Water and Adaptation) and 2490 (Community and Workplace Culture).
- 5. Section 2410 is amended to clarify the duty of a committee's Vice Chair as an alternate on the Executive Committee for an absent committee Chair.

- 6. Sections 2420 and 2421 are amended to create the Audit Committee. Accordingly, the listed duties of the Audit Subcommittee at Section 2416(f)(6) are deleted and transferred to the Audit Committee at Section 2421(a) through (e) and the duties from the preamble to engage in the annual evaluation process of the General Auditor and monitor compliance with the state audit are added at Section 2421(f) and (g). Also, Section 2420 specifies the regular meetings of this standing committee shall be on a quarterly basis.
- 7. Section 2462 is added for the Board Chair to designate two committee Vice Chairs for the Legislation and Communications Committee, one to preside over legislative affairs, the other over communications matters.
- 8. Section 2471 is amended to add to the duties of the Organization, Personnel and Effectiveness Committee the oversight of workforce training programs at subsection (h), the recruitment of top-tier talent at subsection (i) and personnel matters at subsection (j).
- 9. Section 2491 is amended to create the Community and Workplace Culture Committee. Accordingly, the ethics-related duties of the Ethics, Organization and Personnel Committee at Section 2471(i) through (m) are deleted and transferred to the Community and Workplace Culture Committee at Section 2491(a)(1) through (5). Section 2491(b) is created and former subsections (a) through (f) renumbered underneath it with respect to the equal employment opportunity, and diversity equity and inclusion duties of the Community and Workplace Culture Committee at Section 2491(b) is created and former subsections (a) through (f) renumbered underneath it with respect to the equal employment opportunity, and diversity equity and inclusion duties of the Community and Workplace Culture Committee.

C. Future Actions Recommended in the February 11, 2025, Board Letter Item 6B Modifying Subcommittee Structures and Functions That Will Require Standing Committees to Review and Approve.

Based on Administrative Code 2311, the following changes to subcommittee structures and functions will require separate action by their standing committees:

- Eliminate the Subcommittee on Pure Water and Regional Conveyance under the Engineering, Operations and Technology Committee.
- Eliminate the Subcommittee on Demand Management and Conservation Programs and Priorities under the One Water and Adaptation Committee.
- Create a Subcommittee on Imported Water under the One Water and Adaptation Committee with membership to consist of Metropolitan representatives to the key District-engaged entities concerned with Colorado River water usage and the Bay-Delta project, as well as interested committee members, as selected by the committee Chair.

The proposed amendments, and the amendments authorized by the Board at the February 11, 2025 meeting are set forth in **Attachment 1**, with overstrikes reflecting deletions and underlining reflecting additions. **Attachment 2** sets forth the sections as they will appear in the Administrative Code if the changes are approved.

3/6/2025 Date Chair of the Board

Attachment 1 – The Administrative Code of The Metropolitan Water District of Southern California (with changes marked)

Attachment 2 – The Administrative Code of The Metropolitan Water District of Southern California (clean copy)

Division II

PROCEDURES PERTAINING TO BOARD, COMMITTEES AND DIRECTORS

Chapter 2

BOARD OFFICERS

§ 2204. Delegation of Duties to Vice Chairs.

The Vice Chairs selected by the Chair shall act in the Chair's absence, failure or inability to act. The Vice Chairs shall have ex officio membership and may vote to break a tie and maintain a quorum. If the committee Chair and Vice Chair(s) of the committee are not present in person the Vice Chair may preside over the meeting. The Vice Chairs shall have ex efficio membership on standing committees, subcommittees, or special committees as designated in this Code. The Chair assigns the following duties to the designated Vice Chairs as follows:

(1) Vice Chair for Climate Action will provide guidance to the following committees:

(a) Engineering, Operations and Technology Committee and the Subcommittee on Pure Water Southern California and Regional Conveyance; and

(b) One Water and Stewardship Committee and the Subcommittee on Demand Management and Conservation Programs and Priorities.

(2) Vice Chair for Strategic Communications and Stakeholder Engagement Policy will provide guidance to the following committees:

(a) Legislation and Communications Committee.

(3) Vice Chair for Finance and Planning will provide guidance to the following committees:

(a) Finance and Asset Management Committee and the Subcommittee on Long-Term Regional Planning Processes and Business Modeling.

(4) Vice Chair for Organizational Integrity and Accountability will provide guidance to the following committees:

(a) Ethics, Organization and Personnel Committee;

(b) Legal and Claims Committee; and

(c) Equity, Inclusion, and Affordability Committee.

Chapter 3

RULES GOVERNING COMMITTEES

§ 2310. Ad Hoc Committees.

Ad Hoc Committees may be created by the Board to undertake special assignments on behalf of the Board. An ad hoc committee shall exist for a specified term or until its special assignments are completed, whichever comes first, but its existence may be extended for an added term or added assignments by action of the Board. Unless otherwise specified, members of an ad hoc committee shall be appointed by the Chair of the Board and shall serve at the Chair's pleasure. Ad Hoc Committees shall provide reports to the Executive Committee as well as committees where the subjects are relevant.

Chapter 4

STANDING COMMITTEES

Article		Sec.
1	General	2400
2	Executive Committee	2410
3	Audit Committee	2420
<u>34</u>	Engineering, Operations and Technology Committee	2430
4 <u>5</u>	Finance and Asset Management CommitteeFinance, Affordability, Asset Management,	
	and Efficiency Committee2440	
<u>56</u>	Legal and Claims Committee	2450
<u>67</u>	Legislation and Communications Committee	2460
7 <u>8</u>	Ethics, Organization and Personnel Committee Organization, Personnel ar	nd Effectiveness
	<u>Committee</u> 2470	
<u>89</u>	One Water and StewardshipAdaptation Committee	
	2480	
<u>910</u>	Equity, Inclusion and Affordability CommitteeCommunity and Workplac	<u>e Culture</u>
	Committee 2490	

Article 1

GENERAL

Sec.

- 2400. Identification of Standing Committees
- 2401. Officers and Members of Standing Committees
- 2402. Regular Meetings

§ 2400. Identification of Standing Committees.

The Standing Committees of the Board of Directors are:



§ 2401. Officers and Members of Standing Committees.

(a) Members, Chair, and Vice Chairs of standing committees with the exception of the Executive Committee shall be appointed subject to the approval of the Executive Committee and the Board on the basis that each director, with the exception of the Chair of the Board, serve on at least one standing committees, in addition to the Executive Committee. Such appointment shall be made by the Chair of the Board unless a new Chair-elect has been selected by the Board to take office on the next January 1, in which event appointment of Chair and Vice-Chairs of standing committees shall be made by the Chair-elect.

(b) Chair and Vice Chairs of standing committees with the exception of the Executive Committee are to be appointed in even-numbered years at the December meeting of the Board for a two-year term commencing on January 1 of odd-numbered years. No director shall be appointed to the same committee office for more than two consecutive full terms and a partial term immediately prior to the first term.

(c) The Chair of the Board or the Vice Chair to whom the Chair has assigned the Chair's membership pursuant to Section 2204 acting in the Chair's absence per Section 2204, is a member ex-officio, with right to vote, of all standing committees, subcommittees, and special committees of the Board. However, the Chair (or the Vice Chair) to whom the Chair's membership has been assigned shall not be considered a member of any committee of which the officer is a member ex-officio for the purpose of determining whether a quorum of the committee is present unless the Chair or Vice Chair_is actually present at the meeting of the committee.

(d) The committee Chair's duties include presiding over meetings of the committee, with the exception that the committee may, by a majority vote, overrule parliamentary rulings of the Chair. Any Vice Chair of that committee may serve as the alternate presiding officer of committee meetings when the committee Chair is absent.

§ 2402. Regular Meetings.

• <u>The regular meetings of standing committees shall be held on the Monday</u> preceding regular board meetings or on the second or fourth Tuesday of each month. Executive Committee

The Audit Committee shall meet on a quarterly basis. If a scheduled meeting falls on a holiday designated in Section 1106, the meeting will be rescheduled to the next business day unless the Board selects an alternative date. Staff will adjust its schedule accordingly.

Article 2

EXECUTIVE COMMITTEE

§ 2410. Membership.

The Executive Committee shall consist of the Chair, Vice Chairs of the Board, Secretary, all past Chairs of the Board who are directors of the District, and the Chairs of the standing committees in addition to the Executive Committee, and four (4) additional directors as nonofficer members. In the absence of a committee Chair, a committee's Vice Chair shall serve as the alternate on the Executive Committee for the absent committee Chair.

§ 2416. Duties and Functions. [Executive Committee]

(a) The Executive Committee shall study, advise, and make recommendations with regard to:

(1) Public information for governmental and other entities and officials, and for the citizens of California regarding matters affecting the District's interests;

(2) Official dealings with the United States Government, the State of California or other states, member public agencies or their sub-agencies, foreign governments and other entities or persons in matters of public policy or other activities as deemed appropriate;

(3) Policies and procedures to be considered by the Board or committees thereof, except for policy matters within the jurisdiction of a specific standing committee;

(4) Matters relating to the Colorado River Board of California;

(5) Major policy issues to be considered by the Board, including proposed amendments to the Metropolitan Water District Act;

(6) Questions raised by the officers and staff in intervals between meetings of the Board and in unexpected situations and emergencies.

(7) The terms and conditions of employment of all consultants and advisors not within the jurisdiction of other committees;

(8) Resolution of conflicting committee recommendations pursuant to Section 2314;

(9) The progress of, and propose modifications to, the Board's goals in light of then existing and projected future conditions; and

(10) Such other matters as may be required by Division II of this Code.

(b) The Executive Committee shall:

(1) Review and approve board and committee agendas and, notwithstanding the jurisdiction of the other standing committees in the Code, have the authority to direct which committee shall consider an item;

(2) Review and approve the scheduling of board and committee meetings;

(3) Be responsible for the oversight and management of the organization including, but not limited to, the form of the District's organization and the flow of the authority and responsibility. This includes monitoring and overseeing the duties and responsibilities of management; and

(4) Consider the effectiveness of the District's internal control system, including information technology security and control.

(c) The Executive Committee shall retain ultimate responsibility for those duties as are specifically assigned to the subcommittees of the Executive Committee.

(d) The Executive Committee shall be responsible for reviewing and approving the annual business plan containing the General Manager's key priorities for the coming year.

(e) As part of the Department Head annual evaluation process, the Executive Committee shall be responsible for engaging in periodic performance expectations discussions, including progress checks, with the General Manager.

(f) The Executive Committee shall also:

(1) Act on behalf of the Board in unexpected situations and emergencies, subject to subsequent approval or ratification of the actions taken whenever such approval or ratification is required by law.

(2) Provide policy guidance where appropriate to those directors and District staff members who are associated with organizations in which the District has membership.

(3) Conduct hearings on appeals of protest denials involving Purchasing Contracts and Professional and Technical Services Contracts pursuant to Section 8150(b).

(i) Hearings shall be held by the committee at its next regular meeting to be held at least 72 hours after the filing of the notice of appeal of the General Manager's determination under Section 8150(b). The decision of the committee shall be final unless the committee chooses to refer the notice of protest to the Board.

(ii) The Chair of the Executive Committee may re-delegate duties provided for under subparagraph (i) above to a minimum of three members of the Executive Committee who shall act in place of the committee.

(4) Resolve disputes over inspection dates and monitor conduct of inspection trips to assure maximum effectiveness.

(5) Address substantiated allegations of discrimination, harassment, and retaliation against directors, the General Manager, General Counsel, General Auditor, and Ethics Officer:

(i) The Executive Committee shall create an ad hoc subcommittee of three members and two alternates that will serve for a period of one year to address substantiated findings of violations determined as a result of Equal Employment Opportunity (EEO) investigations conducted for alleged violations of Section 2131 made against a director and for alleged violations of Section 6305 made against the General Manager, General Counsel, General Auditor, or Ethics Officer. If any director serving on the three-member subcommittee is an involved party to an EEO investigation, or has a conflict of interest with any involved party, the conflicted director shall recuse themselves from the matter. The Chief EEO Officer (EEO Officer) will select an alternate director to fulfill all subcommittee duties related to the particular matter. If the EEO Officer has a conflict of interest in the same matter, the Ethics Officer and/or General Counsel will select an alternate director. Directors serving as alternates will not participate in ad hoc committee matters unless or until called to serve.

(ii) The Executive Committee will also select an external law firm to serve as counsel to the ad hoc subcommittee to provide guidance, as needed, for post investigation actions.

(iii) The ad hoc subcommittee shall delegate to the EEO Officer the responsibility to designate an external investigator to conduct a fact-finding EEO

investigation pursuant to this section. ALL EEO investigations will be fair, impartial, timely, and promptly initiated and completed by qualified personnel. Detailed EEO investigative procedures, pursuant to this section can be found in EEO Investigative Procedures for the Board and its Direct Reports. The EEO Officer shall refer substantiated findings of EEO investigations to the ad hoc subcommittee to determine recommended appropriate action. At its discretion, the ad hoc subcommittee may consult with the EEO Officer, Ethics Officer, and/or General Counsel on appropriate action regarding a director or department head. The ad hoc subcommittee shall report a substantiated finding of an EEO violation by a director or department head and recommend appropriate action for the Board's consideration. Appropriate action for directors may include, but is not limited to, counseling, training, a private warning letter, public censure, temporary or permanent removal from committee assignments, or referral to the Director's appointing authority requesting appropriate action. Appropriate action for department heads may include, but is not limited to, counseling, training, performance review, or the imposition of discipline, as deemed appropriate under the circumstances.

(iv) When the General Manager is a party to the complaint or when in the judgment of the EEO Officer that matter should be handled differently to avoid real or perceived conflicts of interest, or to avoid potential bias or threats to impartiality, the EEO Officer shall delegate to the Ethics Officer the responsibility to retain an external investigator to conduct a fact-finding EEO investigation pursuant to this section. If the Ethics Officer has a conflict of interest in the particular case, the EEO Officer would delegate to the General Counsel the responsibility to retain an external investigator to conduct a fact-finding investigation pursuant to this section. Substantiated EEO findings under this subsection shall be referred directly to the ad hoc subcommittee to determine recommended appropriate action for the Board's consideration.

(v) A deviation of this investigation protocol by the EEO Officer may occur, in certain circumstances, with a written justification and approval of the ad hoc subcommittee responsible for EEO investigations of directors and department heads

(vi) On a quarterly basis, the Chief EEO Officer will report to the Executive Committee EEO case statistics regarding EEO complaints filed against the Board and its direct reports.

(6) Audit Subcommittee. The Executive Committee shall create an Audit Subcommittee, whose membership shall include the at-large members of the Executive Committee. This committee shall have the responsibility to monitor compliance with the recommendations of the California State Audit (April 2022) and, with respect to the duties and functions of the General Auditor, shall be responsible to:

-(i) Study, advise, and make recommendations with regard to:

a. All reports of the General Auditor and external auditors, including the audited financial statements of the District;

b. The Audit Department's annual business plan and biennial budget; and,

e. Requests from other committees of the Board and individual Board members for audits and review not included in the Audit Department's annual business plan.

(ii) Monitor and oversee the duties and responsibilities of the Audit Department and the external auditors as those duties and responsibilities relate to the effectiveness of the District's internal control system.

(iii) Review and approve, in advance of the July Board meeting, the Audit Department annual business plan containing the key priorities of the General Auditor and the Audit Department.

(iv) As part of the Department Head annual evaluation process, be responsible for engaging in periodic performance expectations discussions, including progress checks, with the General Auditor. <u>Article 3</u>

AUDIT COMMITTEE

§ 2420. Day of Regular Meeting

The regular meetings of the Audit Committee shall be held on a quarterly basis in the months of March, June, September and December.

§ 2421. Duties and Functions

(6) Audit Subcommittee. The Executive Committee shall create an Audit Subcommittee, whose membership shall include the at-large members of the Executive Committee. This committee shall have the responsibility to monitor compliance with the recommendations of the California State Audit (April 2022) and, with respect to the duties and functions of the General Auditor, shall be responsible to:

(a) <u>a. All reports of the General Auditor and external auditors, including the audited</u> <u>financial statements of the District;</u>

<u>(a)</u>

(b) b. The Audit Department's annual business plan and biennial budget; and,

(c) e. Requests from other committees of the Board and individual Board members for audits and review not included in the Audit Department's annual business plan.

(d) (ii)-Monitor and oversee the duties and responsibilities of the Audit Department and the external auditors as those duties and responsibilities relate to the effectiveness of the District's internal control system.

(e) (iii)-Review and approve, in advance of the July Board meeting, the Audit Department annual business plan containing the key priorities of the General Auditor and the Audit Department.

(f) <u>(iv)</u> As part of the Department Head annual evaluation process, be responsible for engaging in periodic performance expectations discussions, including progress checks, with the General Auditor.

(g) Monitor compliance with the recommendations of the California State Audit (April 2022).

Article **<u>4</u>**

ENGINEERING, OPERATIONS AND TECHNOLOGY COMMITTEE

Sec.

2430. Day of Regular Meeting

2431. Duties and Functions

§ 2430. Day of Regular Meetings.

The regular meetings of the Engineering, Operations and Technology <u>(EOT)</u> Committee shall be held on the Monday preceding regular board meetings or on the <u>second or fourth</u> Tuesday of <u>each month.</u> regular Board meetings.

Article <u>5</u>4

FINANCE, <u>AFFORDABILITY</u>, <u>AND</u>-ASSET MANAGEMENT, <u>AND EFFICIENCY</u> COMMITTEE

Sec.

2440. Day of Regular Meeting

2441. Duties and Functions

§ 2440. Day of Regular Meetings.

The regular meetings of the Finance and Asset Management<u>Finance</u>, Affordability, Asset <u>Management</u>, and Efficiency (FAAME) Committee shall be held on the Monday preceding regular board meetings or on the <u>second or fourth</u> Tuesday of <u>each month</u>. regular meetings.

§ 2441. Duties and Functions.

The Finance and Asset Management Committee shall study, advise and make recommendations with regard to:

(a) Preparation of budgets;

(b) Policies and procedures related to budget development and cost containment;

(c) Sale of bonds and borrowing and repayment of money;

(d) Disposition and investment of funds;

(e) Authorization of appropriations, except appropriations for capital projects;

(f) The determination of revenues to be obtained through water transactions, including, but not limited to, sales, exchanges, and wheeling of water, water standby or availability of service charges, and the levying of taxes;

(g) The financial impact and requirements of policies concerning annexation;

(h) The financial aspects of the District's risk management program;

(i) Questions pertaining to insurance coverage and self-insurance;

(j) The selection of financial and insurance consultants and the determination of the scope of their assignments;

(k) Form and contents of accounts, financial reports, and financial statements;

(l) Proposed amendments to the Metropolitan Water District Act affecting the finance and asset management functions of the District;

(m) Goals and objectives related to financial planning for Metropolitan, including but not limited to revenues, operating expenses, reserve policies, internally funded construction, debt management, investments and capital financing strategies;

(n) The prices and conditions governing water transactions, including, but not limited to, sales, exchanges, and wheeling sales of water;

(o) Costs and accounting procedures relating to the District's and other state water service contracts;

(p) Policies regarding water transactions, including, but not limited to, the sale, exchange, and wheeling of water for various uses;

(q) Policies regarding allocation of water standby or availability of service revenue requirements among member public agencies;

(r) Water standby or availability of service charges within the District;

(s) Determinations by the General Manager with respect to appeals concerning charges for water service, including readiness-to-serve charges and capacity charges, and report its recommendations, as appropriate, to affirm or reverse the General Manager's determinations;

(t) Appeals from determinations by the General Manager to deny or qualify an application for exemption from the water standby charge, and report its recommendations, as appropriate, to affirm or reverse the General Manager's determinations;

(u) The purchase, management and disposition of personal property assets such as equipment and vehicles;

(v) Facility master plans, including budgeting for capital improvements and long-term facilities commitments;

(w) Proposed rules and proposals regarding business development opportunities for real property;

(x) Policies for the acquisition of rights-of-way;

(y) The purchase, sale, and leasing of land and buildings, including the District's various office and garage space needs;

(z) The incidental use of land in farming operations and otherwise;

(aa) The operation and maintenance of buildings;

(bb) The development, oversight, and coordination of recreational facilities at Diamond Valley Lake and Lake Skinner;

(cc) The use of proceeds from the sale or disposition of surplus property related to Diamond Valley Lake and Lake Skinner for recreational purposes;

(dd) Annexations and annexation policies including the requirements, procedures, terms and conditions for annexation.

Article <u>6</u>5

LEGAL AND CLAIMS COMMITTEE

Sec.

2450. Day of Regular Meetings

2451. Duties and Functions

§ 2450. Day of Regular Meeting.

The regular meetings of the Legal and Claims Committee <u>(LC)</u> shall be held on the Monday preceding regular board meetings or on the <u>second or fourth</u> Tuesday of <u>each month</u>. regular Board meetings.

Article 76

THE LEGISLATION AND COMMUNICATIONS COMMITTEE

Sec.

2460. Day of Regular Meeting

2461. Duties and Functions

2462. Vice Chairs.

§ 2460. Day of Regular Meeting.

The regular meetings of the Legislation, Regulatory Affairs and Communications (LEG) Committee shall be on the Monday preceding regular board meetings or on the second or fourth Tuesday of each month, regular board meetings.

§ 2461. Duties and Functions.

The Legislation and Communications Committee shall study, advise and make recommendations to the Board with regard to:

(a) Proposals of the General Manager, other committees, and board members concerning State and Federal legislation or amendments thereto, that may affect the District;

(b) Recommendations for new legislation identified by members of the Board or the General Manager;

(c) Opportunities for members of the Board to assist in outreach activities, including efforts to inform members of the Legislature or the Congress of the District's position with regard to proposed legislation;

(d) The effectiveness of legislative and administrative advocacy efforts by staff and members of the Board;

(e) The development and implementation of Directors' inspection trips, including the expectations and goals for these trips;

(f) The development and implementation of school education programs, including the expectations and goals for these programs;

(g) The effectiveness of Metropolitan's external affairs programs and general communications efforts directed at member agencies and the general public; and

(h) The selection of public information consultants and the scope of their assignments.

§ 2462. Vice-Chairs.

The Board Chair shall designate two Vice Chairs for the committee, one to preside over legislative affairs, the other over communications matters.

Article 87

ETHICS, ORGANIZATION AND PERSONNEL ORGANIZATION, PERSONNEL AND EFFECTIVENESS COMMITTEE

Sec.

2470. Day of Regular Meeting

2471. Duties and Functions

§ 2470. Day of Regular Meeting.

The regular meetings of the Ethics, Organization and Personnel Organization, Personnel and Effectiveness (OPE) Committee shall be held on the Monday preceding regular board meetings or on the second or fourth Tuesday of regular board meetings each month.

§ 2471. Duties and Functions.

The Ethics, Organization and Personnel <u>OPE</u> Committee shall study, advise and make recommendations with regard to:

(a) The form of the District's organization and the flow of authority and responsibility;

(b) Periodic independent reviews and studies of the organization, classification of positions, job duties, salaries, and salary ranges;

(c) Relations between the District and its employees, including all matters affecting wage, hours, pension plans and other employee benefits, and other terms and conditions of employment, as well as the district's negotiation of such matters with employee bargaining units and selection of negotiators;

(d) Areas of special concern to the District and its employees, including, but not limited to work rules pertaining to the health and safety of employees;

(e) Policies and rules regarding employment, discipline and discharge of District officers and employees;

(f) Proposed amendments to the Metropolitan Water District Act and Administrative Code affecting contract procedures and policies, the organization and personnel policies of the District and to the Public Employees' Retirement Law;

(g) Information technology strategies, projects and activities, including information technology asset management and the budgeting and tracking of information technology resources; and

(h) Annual overall coordination of the Department Head Evaluation Program.(i) Periodic performance expectations discussions, including progress checks, with the Ethics Officer.

(j) Monitoring and overseeing the duties and responsibilities of the Ethics Officer to ensure the independence of the Ethics Officer.

(k) Receive and review bi-monthly status reports of pending investigations by the Ethics Officer. The reports shall include the general nature and status of the investigation, how long the investigation has been pending, when the investigation is expected to be completed and, when completed, resolution of the investigation.

(1) Receive and review quarterly reports from the Ethics Officer on any engagement of professional and technical consultants.

(m) Review and approval of the business plan containing the key priorities for the coming year for the Ethics Office. It shall review and approve the business plan in advance of the July Board meeting.

(h) Oversight of workforce training programs, including strategic planning, needs assessment, program design and development, and metric-based evaluation.

(i) Recruitment of top-tier talent throughout the District and securing leaders with exceptional skills, qualities, and abilities.

(j) Policies and procedures concerning District personnel matters.

Article **<u>9</u>8**

ONE WATER AND **STEWARDSHIP** <u>ADAPTATION</u> COMMITTEE

Sec. 2480. Day of Regular Meeting 2481. Duties and Functions

§ 2480. Day of Regular Meeting

The <u>regular meetings of the</u> One Water and <u>Stewardship-Adaptation</u> Committee (OWA) shall hold regular meetings on an as-needed basis. be held on the Monday preceding regular board meetings or on the second or fourth Tuesday of each month.

§ 2481. Duties and Functions

The <u>One Water and StewardshipOWA</u> Committee shall have oversight over the planning, prioritization, and funding of any current or future regional demand management or any regional or local supply projects within the Metropolitan service area receiving funding from Metropolitan, such as the Regional Recycling Project and local projects funded through Metropolitan's Local Resources Program. The <u>c</u>-ommittee shall review and consider:

(a) Establishing policies and programs regarding water conservation and reuse, watershed management, storm water capture and management, recycling, sustainable groundwater management and protection, underground storage, and use thereof;

(b) Seawater desalination, recycling and reuse, and brackish water issues in Metropolitan's service area, and use thereof;

(c) Overseeing development and implementation of Metropolitan's Local Resources Program and Conservation Program and other efforts to meet local supply and water use efficiency goals;

(d) The effect of existing and proposed federal, state and local environmental, water supply and water management statutes and regulations on supplies produced or that may be produced within the District's region;

(e) Recommendations for comprehensive solutions to regional supply problems with the intent to increase water reliability, cost effectiveness, and environmental benefit;

(f) Expanding Metropolitan's understanding of regional water supply issues by inviting informational presentations and feedback from external representatives;

(g) Recommendations to the Board on policies and programs that will strengthen relationships with other agencies in furthering Metropolitan's objectives for increased regional self-reliance and greater water use efficiency;

(h) Creating opportunities for collaboration to advance the development of local supplies and achieving greater water use efficiency;

(i) Coordinating and aligning new water supplies, local resources projects and programs, and investments with other Metropolitan strategic priorities and initiatives;

(j) Developing criteria for the prioritization of investments in new water supplies;

(k) Policies, sources, and means of importing and distributing water, transferring water, and wheeling water as required by the District;

(1) Policies and procedures regarding the delivery and exchange of water for various uses;

(m) Metropolitan Water Supply Planning including the Integrated Resources Planning Process and completion of the Urban Water Management Plan and related policies; and

(n) Environmental compliance and requirements, and informing the technical aspects and science factors in providing comments to regulatory agencies and legislation affecting the regulation of water supply operational facilities and the conditions that they operate under.

Article 109

COMMUNITY AND WORKPLACE CULTURE COMMITTEE

Sec.

2490 Day of Regular Meeting

2491 Duties and Functions

§ 2490. Day of Regular Meeting

The <u>regular meetings of the Equity, Inclusion and Affordability</u> <u>Community and Workplace</u> <u>Culture (CWC)</u> Committee shall hold regular meetings on an as-needed basisbe held on the Monday preceding regular board meetings on the second or fourth Tuesday of each month.

§ 2491 Duties and Functions

The CWC Committee shall study, advise and make recommendations, as follows:

(a) With regards to ethics matters:

(1) Periodic performance expectations discussions, including progress checks, with the Ethics Officer.

(2) Monitoring and overseeing the duties and responsibilities of the Ethics Officer to ensure the independence of the Ethics Officer.

(3) Receive and review bi-monthly status reports of pending investigations by the Ethics Officer. The reports shall include the general nature and status of the investigation, how long the investigation has been pending, when the investigation is expected to be completed and, when completed, resolution of the investigation. (4) Receive and review quarterly reports from the Ethics Officer on any engagement of professional and technical consultants.

(5) Review and approval of the business plan containing the key priorities for the coming year for the Ethics Office. It shall review and approve the business plan in advance of the July Board meeting.

(b) With respect to matters of equal employment opportunity and of diversity, equity and inclusion:

(<u>1</u>a) Direct and receive reports from, and be the home committee for Metropolitan's Diversity, Equity and Inclusion Officer, and Metropolitan's Chief Equal Employment <u>Opportunity Officer</u>;

(2b) Receive input, policy and procedure recommendations from the Diversity, Equity and Inclusion Officer;

 $(\underline{3}e)$ Study diversity, equity, and inclusion issues within Metropolitan to recommend ways to enhance and promote equal opportunity, affirmative action, increased diversity of the workforce and a culture of inclusion within Metropolitan;

(<u>4d</u>) <u>Monitor performance of efforts to Pp</u>romote workforce development programs, including training and advancement opportunities at Metropolitan to increase diversity, equity and inclusion within Metropolitan and benefit the communities within Metropolitan's service area; and

 $(\underline{5}e)$ Study areas of special concern to the District and its employees, including, but not limited to, equal employment opportunity and affirmative action.

(6f) Study, advise and make recommendations on the ways the District can:

 $(\underline{i}+)$ Better serve the disadvantaged and underserved communities within Metropolitan's service area, and mitigate issues of affordability;

(<u>ii</u>2) Improve the access of disadvantaged and underserved communities to reliable, high-quality drinking water supplies;

(iii3) Increase participation of currently underserved communities in Metropolitan's rebate, conservation, and other local resources programs; and

 $(\underline{iv}4)$ Assist and support member agency programs and advocate for underserved communities, including providing communications, operational and technical assistance, with focus on consumer confidence in drinking water.

(7) Monitor Metropolitan's compliance with laws governing equal opportunities and employment and the manner in which investigations are conducted in compliance with such laws.

Division IV

WATER SERVICE POLICIES

Chapter 3

WATER TRANSACTIONS REVENUE

§ 4304. Apportionment of Revenues and Setting of Water Rates.

(a) Not later than at its February meeting the General Manager shall present to the Finance and Asset Management Finance, Affordability, Asset Management, and Efficiency (FAAME) Committee of the Board:

(1) Determinations of the revenue requirements and cost of service analysis supporting the rates and charges required during the biennial period beginning the following July 1, as determined by the General Manager in accordance with current Board policies, and,

(2) Recommendations of rates including, but not limited to, the System Access Rate, Water Stewardship Rate, System Power Rate, Treatment Surcharge, and the Supply Rates for the various classes of water service to become effective each January 1 of the biennial period. These recommended rates shall be the General Manager's determination, made in accordance with current Board policies, of the rates necessary to produce substantially the revenues to be derived from water transactions, including, but not limited to, sales, exchanges, and wheeling, during the biennial period beginning the following July 1.

(b) Not later than at its February meeting, the General Manager shall also present to the Finance and Asset Management FAAME Committee -recommendations regarding the continuation of a water standby charge or the imposition of an availability of service charge (such as the readiness-to-serve charge and capacity charge), which shall be the General Manager's determination, made in accordance with current Board policies, of the charge necessary to produce substantially the revenues to be derived from fixed revenue sources, if any, exclusive of taxes, during the biennial period beginning the following July 1 which the Finance and Asset Management Csaid committee has determined to be necessary.

(c) Not later than its February meeting the Finance and Asset Management<u>FAAME</u> Committee shall set a time or times for, and shall thereafter hold, one or more meetings of the Finance and Asset Management Committeesaid committee, to be held prior to its regular April meeting, at which interested parties may present their views regarding the proposed water rates and availability of service charges to said<u>the</u> committee. The Finance and Asset Management <u>c</u>Committee shall direct the General Manager to cause the publication of a notice of such public hearing to be published in newspapers of general circulation within the District's service area. Such notice shall be published not less than 10 days prior to the public hearing.

(d) Not later than its regular April meeting the Finance and Asset Management FAAME Committee shall make its determination regarding the revenue requirement to be paid from water rates and the water rates to become effective each January 1 of the biennial period and shall recommend said water rates to the Board no later than the Board's regular April meeting.

(e) Not later than its April meeting, the Board shall establish water rates for deliveries beginning each January 1 of the biennial period.

(f) Proposals for changes in water rates to become effective at times other than on January 1 shall require adequate notice to the public and a hearing before such proposals are acted upon by the Board, unless the Board finds that an immediate change in water rates is urgent.

§ 4305. Setting of Charges to Raise Fixed Revenue.

(a) Not later than its regular May meeting each year, the Finance and Asset ManagementFAAME Committee shall make its final determination regarding the water standby charge or other fixed revenue charge, if any, for the fiscal year beginning the following July 1, and shall recommend such charge, if any, to the Board at its regular May meeting.

(b) Not later than such May meeting, the Board shall consider and take action upon the recommendations, if any, of the Finance and Asset ManagementFAAME cCommittee regarding a fixed revenue source, exclusive of taxes, to become effective the following January 1 or for the fiscal year beginning the following July 1, as determined by the Board for each fixed revenue source.

Chapter 5

WATER SERVICE REGULATIONS - GENERAL

§ 4507. Billing and Payment for Water Deliveries.

(a) **Timeframe for Billing and Payment.** Except as noted herein below, invoices shall be mailed electronically, or, if requested by the member agency, by hardcopy via United States mail, not later than the tenth day of the month following delivery to a member public agency. Each such invoice shall indicate the date of mailing and the date on which the payment thereunder becomes delinquent and shall show the total amount of water delivered for each class of service, the charges for water sold and delivered for each class, the readiness-to-serve and capacity charges, as applicable, and the total amount due and owing, all as determined by the General Manager. Payment of the amount shown on any such invoice shall be due on the last business day of that month and shall be delinquent if not received by the Treasurer of the District before the close of crediting activity on the last business day of the first month following such

date of mailing. When making any such payment the member public agency shall specify the invoice or invoices to which the payment shall be credited by the District.

(1) For purposes of Section 4507(a), "business day" shall mean any day other than a Saturday, a Sunday, or a Holiday (as defined in Section 1106).

(2) For purposes of Section 4507(a), "received by the Treasurer of the District" shall mean receipt either (1) in the office of the Treasurer or (2) by crediting pursuant to advance agreement with the Treasurer to the District's general demand account at the District's principal depository bank, in such form that the funds are immediately available for investment or other use or disposal by the District.

(3) For purposes of Section 4507(a), "crediting activity" shall mean either (1) 2:00 p.m. if payment is delivered to the office of the Treasurer, or (2) the cutoff time for crediting by the District's principal depository bank of that day's transactions if payment is initiated by wire transfer, automated clearinghouse transfer, interbranch transfer, direct deposit, or by other means pursuant to advance agreement with the Treasurer.

If, under advance agreement with the Treasurer, a member agency has authorized payment of any invoice by automated clearinghouse transfer initiated by the Treasurer, the Treasurer shall initiate such transfer for processing two business days prior to the business day on which such payment shall be delinquent. Failure of such transfer shall not relieve such member agency from liability for such payment or charges in the event such payment should become delinquent, except as specifically provided under advance agreement with the Treasurer.

(b) Full Service and Emergency Storage Program Facility. In cases where water through a particular facility is delivered during any month for full service or Emergency Storage Program Service, the bill for water delivered in such month will be prepared by applying the rates for water sold and delivered in full service to the total quantity of water delivered. If the member public agency desires to receive credit for water used in Emergency Storage Program Service, the facts concerning the quantities of water so used must be certified to the District via the District's electronic certification and billing system by an authorized user for the member public agency purchasing such water as provided for in Section 4507 (c). The amount of such credits shall be based on the difference in water rates in effect at the time the water is used.

(c) Late Certifications. Based on available information, the District will notify a member agency for any certification that it has not received, if known, three months from the end of the month for which the agency would normally certify. No certification received after six months following the end of any month in which such a credit is claimed will be accepted. Certifications must be received by Metropolitan before 3:30 p.m. on the third working day after the end of the month to receive credit for any preceding month on the next bill, subject to the provisions with respect to late certifications in this Section. This Section applies to all cases where a certification is required to receive a credit, whether or not specifically named in this Section, unless otherwise provided by this Code.

(d) **Determination by General Manager as to Type of Delivery.** In the event the respective quantities of water sold and delivered in any month on order of any member public agency for use therein in any water program or contract requiring certification, are not determinable to the satisfaction of the General Manager in time for preparing regular monthly bills, then billing and payment for all water sold and delivered in such month to such member public agency shall be made at the rates prescribed for water used in full service in Section 4401(a)(1) hereof. Upon the determination by the General Manager of the correct quantities of water sold and delivered and used in any water program or contract requiring certification, any adjustment which is necessary to give effect to the applicable credit for the water used in any water program or contract requiring certification of credits on subsequent purchases of water from the District by such member public agency. Such adjustments shall not be made in cases where a claim for the applicable credit is not submitted within the period provided in Section 4507(c).

(e) **Obligation to Pay for Appropriate Class of Service.** If water has been sold and delivered at the rates prescribed for water sold in any water program or contract and appropriate certifications have been submitted for the water so used, but the water has in fact been used in full service or another class of service, the member public agency shall be obligated to pay the difference between the rates prescribed for water sold for the applicable water program or contract and the rates prescribed for the class of service actually used.

(f) Submission of Documentation by Member Agency. With respect to water sold and delivered at the rates prescribed for water sold under water programs or contract (unless otherwise specified in an agreement with the District), original documentation supporting the use of such water as certified must be submitted no later than December 31 following the end of the fiscal year for which a certification is submitted, unless otherwise specified in an agreement with the District. If the documentation is not submitted by December 31 following the end of the fiscal year for which a certification was submitted, an agency will receive a late penalty of \$2,500. If the agency does not submit documentation by February 28/29 following the end of the fiscal year for which a certification was submitted, it shall be conclusively presumed that:

(1) The water sold from the District was used for full service, and the District's next monthly billing shall reflect such adjustment; or

(2) The yield was not produced as certified and the District's next monthly billing shall reflect such adjustment.

This provision will apply individually to each program or agreement that an agency or subagency participates in separately.

(g) **Review Process.** With respect to water sold and delivered at the rates prescribed for water sold under water programs or contract (unless otherwise specified in an agreement with the District) the District will complete its review within twelve months from date of receipt of the original supporting documentation.

(1) Should the District not complete its review within twelve months of the submittal of all source documentation, the review will be considered complete and the certifications final.

(2) When the review is completed, the District will notify the member agency of its initial findings for its comments. The member agency will provide its comments within 60 days. Metropolitan staff and the agency will work together to reconcile any differences.

(3) If the member agency and Metropolitan staff cannot reconcile the differences, Metropolitan's Water System Operations' Group Manager has the responsibility to consult with the member agency and make a final ruling, subject to the General Manager's oversight. If the ruling is unsatisfactory to the agency, it can be appealed to Metropolitan's Finance and Asset Management Finance, Affordability, Asset Management, and Efficiency Committee.

(4) If the member agency does not provide further documentation correcting Metropolitan staff findings within the 60-day comment period as specified in (g) (2), then it shall be conclusively presumed that the District's findings are correct and the District's next monthly billing shall reflect such adjustment.

(h) **Discovery of Mistakes or Errors.** In the event a mistake or error is discovered in a District water sales record, the General Manager shall initiate appropriate corrective action. No mistake or error made more than three years prior to its discovery shall be corrected unless otherwise specified in an agreement with the District. In the event a mistake or error is discovered by a member agency in its water sales record or certifications, no mistake or error made more than three years prior to its discovery shall be corrected unless otherwise specified in an agreement with the District.

(1) A District water sales record shall include a water billing invoice, or district invoice for other water-related charges.

(2) If the District finds the mistake or error, the discovery of the mistake or error shall be documented in writing to the member agency. The date of discovery for corrective action purposes shall be the date notice is sent to the member agency.

(3) If the member agency discovers the mistake or error, the discovery of the mistake or error shall be documented in writing to the District by either a revised certification form or letter, whichever is applicable. The date of discovery for corrective action purposes shall be the date the certification or letter is received by the District.

(4) If an incorrect invoice has been issued to a member public agency, the General Manager shall notify the affected agency of any adjustment and the manner of making any required credit or charge, neither of which shall bear interest.

(5) Mistakes or errors shall also include but are not limited to mistakes or errors in metering or recording deliveries to member agencies, entry or calculation errors in fixed charges, discovery of errors in either a member agency or sub-agency submitted certification(s), or processing of a certification(s) for the Local Projects Program, the Local Resources Program, the Groundwater Recovery Program, Conservation Credit Program, or any other water management program or storage programs or agreements unless specified otherwise in the contract.

(6) Any mistakes or error for a fiscal year period that is less than five acre-feet cumulative by agency or sub-agency, by program or agreement, shall be waived.

(i) **Rate Change.** In the event that deliveries of water are made by the District to member public agencies over a billing period during which the District's water rates change, the General Manager may cause the meters recording deliveries of water during such period to be read at the end of the period and the statement of charges for such deliveries of water may be based on a proration between the previous and new water rates for the periods of time during which each were in effect as determined by the General Manager.

Division V

FINANCIAL MATTERS

Chapter 1

ADMINISTRATIVE MATTERS

§ 5104. Payment After Loss of Bond Interest Coupon.

(a) The Treasurer of the District is authorized to effectuate payment, without action of the Board, of a claim arising from the loss of a bond interest coupon that has been detached from a District bond or from the destruction of a bond interest coupon at any time after the date of its maturity, and the Treasurer has received:

(1) An affidavit or affidavits establishing the ownership of the coupon and reciting therein the circumstances under which it was lost or destroyed; and

(2) An indemnity bond in a penal sum which is at least the amount of the claim, said sum being specifically stated in said bond, said bond to be approved by the General Counsel and then filed with the Treasurer. The indemnity bond must include a rider substantially in the form hereinafter set forth:

(i) Rider.

This Rider is attached to and is a part of the Bond of Indemnity executed by the (enter name of insurance company) respecting the loss of coupons due

coupons at \$ per coupon - total \$, detached from \$ Bonds of THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA, numbered to , %, maturing , at \$ each bond in bearer form.

It is understood and agreed that in the event the balance in the coupon account respecting the above-described issue of bonds, maintained by the Treasurer of said District, should hereafter not be sufficient as a result of the payment of coupon(s) to provide for outstanding unpaid coupons, (enter name of insurance company) will reimburse The Metropolitan Water District of Southern California, up to the face amount of the coupon(s) paid under this indemnity contingent upon presentation by said District of (a) evidence that said District has paid the afore-described coupon(s) or (b) a certificate from the Treasurer of said District that there is a deficiency in said coupon account balance.

It is understood that within the first year after the due date of the afore-described coupon(s) that (enter name of insurance company) may request that the Treasurer of said District search the District's records to ascertain if in fact the afore-described coupon(s) have been paid, but any such request shall only be honored by said Treasurer upon payment by (enter name of insurance company) of any fee required by said Treasurer to cover costs of such search.

Executed this day of , 20 .

(enter name of insurance company)

(b) The Treasurer shall report to the Finance and Asset Management Finance, Affordability, Asset Management, and Efficiency Committee all payments made pursuant to this Section 5104.

§ 5105. Lost or Destroyed Bonds.

(a) The Treasurer of the District is authorized to issue a new District bond or bonds similar to the original to replace it if the Treasurer has received:

(1) Proof satisfactory to the Treasurer that the bond has been lost or destroyed; and

(2) Security approved by the Treasurer and the General Counsel from the owner indemnifying the District against any loss incurred on account of the bond, such security to be equal to the principal amount of the bond and plus the aggregate amount of any attached interest coupons; and

(3) The costs for issuance of the new bond.

(b) The Treasurer shall report to the Finance, Audit, Insurance and Real Property<u>FAAME</u> Committee of the Board all issuances of duplicate bonds made pursuant to this Section 5105.

§ 5107. Biennial Budget Process.

(a) There shall be prepared each even-numbered year, under the direction of the General Manager, a proposed biennial budget covering District operations for the following two fiscal years. The proposed biennial budget shall be submitted to the Board no later than the date of the regular Board meeting in June immediately preceding the first fiscal year of the biennium to which the budget applies. The proposed biennial budget shall indicate by fund all anticipated expenses and required reserves and the source of revenues to be used to meet such expenses and provide such reserves. The proposed biennial budget will at a minimum include a five-year financial forecast. At least one Board Workshop on the proposed biennial budget will be conducted prior to submission of the proposed biennial budget for Board approval. The Finance and Asset ManagementFAAME Committee shall review the proposed biennial budget in its recommendations to the Board.

(b) After considering the proposed biennial budget and making any revisions thereto that it may deem advisable, the Board shall adopt the biennial budget before the beginning of the biennial period to which the budget applies. The amounts provided in the adopted budget for the biennial period for total expenses for operations and maintenance, including minimum and variable operations and maintenance charges under water or power contracts with the State, for capital charges under such contracts, and for debt service shall be deemed to be appropriated from the funds indicated in the budget.

(c) The adoption of the budget shall have no effect upon appropriations for capital projects and continuing expenditures not susceptible to immediate direct allocation, as described in Section 5108 hereof, and shall not establish any limitations on expenditures for such purposes.

(d) The total operations and maintenance budget shall be measured against the regional rate of inflation as measured by the five-year rolling average change in the Consumer Price Index (CPI) for the Los Angeles-Riverside-range County area, not seasonally adjusted, for all items as reported by the U. S. Bureau of Labor Statistics. The budget will include explanations of increases greater than the CPI due to unique conditions, growth or expansion of services.

Chapter 3

SHORT-TERM REVENUE CERTIFICATES

§ 5305. Report of Exercise of Authority.

The General Manager shall report to the next following meeting of the Finance and Asset Management Finance, Affordability, Asset Management, and Efficiency Committee of the Board any exercise of authority pursuant to this Chapter.

Division VI

PERSONNEL MATTERS

Chapter 1

EMPLOYEE RELATIONS

Article 2

REPRESENTATION PROCEEDINGS

§ 6113. Appeals.

(a) An employee organization aggrieved by an appropriate unit determination of the Employee Relations Officer; or an employee organization aggrieved by a determination of the Employee Relations Officer that a Recognition Petition (Section 6105), Challenging Petition (Section 6107), Decertification Petition (Section 6109), Unit Modification Petition (Section 6111) --- or employees aggrieved by a determination of the Employee Relations Officer that a Decertification Petition (Section 6109) --- has not been filed in compliance with the applicable provisions of this Article, may, within twenty (20) days of notice of the Employee Relations Officer's final decision request to submit the matter to mediation by the State Mediation and Conciliation Service, or may, in lieu thereof or thereafter, appeal such determination to the Ethics, Organization and PersonnelOrganization, Personnel and Effectiveness (OPE) -Committee for final decision within fifteen (15) days of notice of the Employee Relations Officer's determination or the termination of mediation proceedings, whichever is later.

(b) Appeals to the Ethics, Organization and Personnel<u>OPE</u> Committee shall be filed in writing with the Board's Executive Secretary, and a copy thereof served on the Employee Relations Officer. The Ethics, Organization and Personnel said cCommittee shall commence to consider the matter within thirty (30) days of the filing of the appeal. The Ethics, Organization and Personnel cCommittee may, in its discretion, refer the dispute to a third-party hearing process. Any decision of the Ethics, Organization and Personnel cCommittee on the use of such procedures, and/or any decision of the Ethics, Organization and Personnel cCommittee determining the substance of the dispute shall be final and binding.

Article 5

MISCELLANEOUS PROVISIONS

§ 6121. Interpretation and Administration.

The General Manager shall have authority to interpret and administer provisions of this Chapter, subject to appeal to the Ethics, Organization and Personnel-Organization, Personnel and Effectiveness Committee.

Chapter 2

PERSONNEL REGULATIONS

§ 6208. Pay Rate Administration.

(a) Pay rate schedules, as approved by the Board, shall include pay rate grades and pay rate ranges consisting of minimum and maximum rates of pay for each position. Except by action of the Board, or as provided in Section 6208(d), the hourly pay rate paid each employee shall be at least the minimum but not in excess of the maximum hourly pay rate prescribed for the applicable position. Notwithstanding any other provision of this section, the salaries of the department heads shall be fixed as a flat rate.

(b) Pay rates for Department Heads shall be individually fixed by the Board. Pay rates for all employees shall be fixed by their respective Department Heads within the ranges fixed by the Board for such positions in accordance with practices, policies and procedures promulgated by the General Manager. The Board at its August meeting will review each Department Head's salary and compensation after determining an overall performance rating for each Department Head, and make adjustments as appropriate, if any, based on salary comparisons, pay rate survey and/or performance, with any change to be effective at the beginning of the pay period that includes the prior July 1.

(c) Job descriptions in terms of duties and responsibilities shall be prepared by the Director of Human Resources for each position. Job descriptions for positions requiring appointment or approval of appointment by the Board shall be submitted to the Board for approval. Job descriptions for positions peculiar to the Legal or Audit Departments or Ethics Office shall be subject to approval of the General Counsel, General Auditor, or Ethics Officer as appropriate. It shall be the duty of Human Resources to insure that all employees are properly classified.

(d) The General Manager is authorized to provide for payment at a "Y" rate to any employee whose position is reclassified to a position in a lower pay rate or the pay rate of whose position is reduced and the General Manager may maintain the employee at a "Y" rate until such time as the General Manager deems the "Y" rate to be no longer justified. As used herein, "Y" rate means a pay rate higher than the highest rate applicable to the employee's position.

(e) New employees, upon entering District service, will be placed by the Director of Human Resources at a salary grade and step within the salary range appropriate for the position available and the applicant's qualifications. -Employees who are promoted to a position in a higher range shall be paid at least the minimum of such range but not more than four steps over their prior rate or the fifth step of the higher pay rate range, whichever is higher, but not in excess of the maximum rate specified for the position to which promoted. New employees are eligible for a merit increase after completion of a six-month probationary period. The eligibility date for subsequent merit reviews shall be 12 months from the most recent merit increase, promotion or demotion, whichever is later. Employees at the top step of the pay range will not be eligible for any merit increase. Merit increases will be awarded as provided for by Section 6211.

(f) Pay rates for temporary employees in District service are the rates paid to regular employees in the same classifications.

(g) Subject to Section 6211, the performance of regular employees other than Department Heads, will be annually reviewed by their Department Heads to determine eligibility for merit increases under evaluation procedures, guidelines and rules developed by the General Manager. Changes in pay rate ranges approved by the Board have no effect upon these limitations.

(h) Pay Rate Survey.

(1) As needed, the General Manager has the authority to cause a survey to be made of rates of pay and benefits of employees of other organizations specified by the Board, and may thereafter recommend to the Board revisions in the pay rate structure and benefits for employees. The survey need not include positions for which pay rates are established pursuant to a memorandum of understanding approved by the Board which is in effect for the entire calendar year. Action, if any, on the pay rate survey may be taken at the same meeting the survey information is presented or at a subsequent meeting. The General Counsel, General Auditor and Ethics Officer may also recommend to the Ethics, Organization and PersonnelOrganization, Personnel and Effectiveness Committee revisions regarding positions peculiar to their own departments.

(2) The list of agencies to be used in the District's pay rate survey may include the following:

County of Los Angeles East Bay Municipal Utility District Los Angeles Metropolitan Transportation Authority Los Angeles County Sanitation District Los Angeles Department of Water & Power Orange County Water District San Diego County Water Authority San Francisco Public Utilities Commission State Department of Water Resources

The nine comparator agencies were selected by comparing the following factors: Industry (type of utility), total number of units managed, population served, total number of employees, total assets, net operating income, gross revenue, and total service area (square miles).

(i) For temporary construction personnel employed under authority of Section 6207(c), the General Manager is authorized to fix the hourly rates of pay at least equal to, but not more

than 20 percent higher than, those so determined by the Board to be prevailing in the county in which such personnel primarily will be engaged.

§ 6209. Discharge.

(a) Unclassified employees, other than executive officers and their principal assistants, may be removed by their respective Department Heads, but may appeal such removal to the Ethics, Organization and Personnel<u>OPE</u> Committee. The decision of the Committee will be final unless the Committee chooses to refer the appeal to the Board.

(b) Probationary employees serve at the pleasure of their respective Department Heads. Classified employees may be discharged, for cause, immediately by their respective Department Heads. When immediate discharge is not deemed appropriate, written notice shall be given at least 14 calendar days in advance of discharge for probationary employees and at least 30 calendar days in advance of discharge for other classified employees.

(c) Regular non-probationary classified employees who are discharged are afforded the due process rights provided under Section 6218 of this Code or as provided in the applicable memorandum of understanding.

Chapter 3

GENERAL EMPLOYEE MATTERS

Article 1

EQUAL EMPLOYMENT OPPORTUNITY AND AFFIRMATIVE ACTION

§ 6304. General Manager's Report on Equal Employment Opportunity Policy and Affirmative Action Program.

Annually, the General Manager shall report to the Equity, Inclusion and Affordability Community and Workplace Culture Committee on the status of the equal employment opportunity policy and affirmative action program.

Chapter 4

OFFICERS

Article 2

GENERAL MANAGER

§ 6416. Annual Report to Executive Committee

The General Manager shall annually submit to the Executive Committee a business plan containing the General Manager's key priorities for the coming year. The business plan shall be submitted in conjunction with similar plans by the General Auditor to the Executive Committee and the Ethics Officer to the Ethics, Organization and Personnel-Community and Workplace Culture Committee and the General Counsel to the Legal and Claims Committee.

Article 3

GENERAL COUNSEL

§ 6436. Annual and Quarterly Reports to Legal and Claims Committee.

(a) The General Manager and General Counsel shall report quarterly to the Legal and Claims Committee the exercise of any power delegated to them by Sections 6433 and 6434. The General Counsel shall report quarterly to the Legal and Claims Committee the exercise of any power delegated to them by Section 6431.

(b) The General Counsel shall annually, in advance of the July Board meetings, submit to the Legal and Claims Committee a business plan containing the Legal Department's key priorities for the coming year for review and approval. The business plan shall be submitted in conjunction with similar plans by the General Manager to the Executive Committee and the General Auditor to the Executive Committee, and the Ethics Officer to the Ethics, Organization and PersonnelCommunity and Workplace Culture Committee.

Article 4

GENERAL AUDITOR

§ 6450. Powers and Duties.

(a) The District's independent internal auditing function is governed by provisions of the California Government Code and by policies established by the Board of Directors. The Executive Committee is responsible for the oversight of the internal auditing function, approving the Audit Department charter (subject to review and approval of the Board of Directors), selecting and overseeing the work of external auditors, and reviewing reports issued by both the internal auditors.

(b) The General Auditor manages the District's Audit Department and is responsible for formulating departmental policies and procedures; directing and evaluating the performance of work done by employees within the department, administering the internal records of the department; and administering the District's contract for external audit services. The General Auditor shall, annually in advance of the July Board meetings, submit to the Executive Committee an Audit business plan containing key priorities for the coming year for review and approval. The business plan shall be submitted in conjunction with similar plans by the General Manager to the Executive Committee, the General Counsel to the Legal and Claims Committee

and Ethics Officer to the Ethics, Organization, and Personnel Community and Workplace Culture Committee.

(c) The General Auditor shall report the findings, opinions, and recommendations which result from the performance of the duties outlined in paragraph 6450(b) to the General Manager, General Counsel and Ethics Officer for their information and appropriate actions. Whenever an audit report contains recommendations for corrective actions or changes in current practices, the General Manager, General Counsel, Ethics Officer or their designees shall respond to the General Auditor in an appropriate manner and within a reasonable time, indicating their views on the recommendations and proposed actions to be taken, if any.

(d) The General Auditor's reports on internal audit assignments shall be addressed to the Executive Committee. The General Auditor shall have the discretion to determine the form and content of such audit reports, subject to guidance by the Executive Committee. With the exception of those reports which the General Auditor deems to be urgent or confidential in nature, copies of all audit reports addressed to the Executive Committee shall be submitted to the General Manager and General Counsel for review and comment simultaneously to their submittal to the Executive Committee.

(e) The General Auditor shall transmit all reports issued by the District's external auditors to the Executive Committee and any other committees of the Board as may be applicable. Such transmittal letters should include any comments on the external auditor's reports that the General Auditor deems necessary.

(f) The General Auditor may receive requests from time to time from the other executive officers or committees of the Board to perform audit assignments which are not included in the approved annual Audit Business Plan. Similarly, the General Auditor may identify a need to include new assignments in the Audit Business Plan during the year. The General Auditor shall have sufficient latitude and discretion to include those new assignments in the annual Audit Business Plan as the General Auditor deems necessary based upon their professional judgement and available resources. Requests from other committees of the Board and individual Board members desiring specific audit assignments shall be submitted to the Audit Subcommittee for study, advise, and recommendation, or if such subcommittee is not currently in place, the Executive Committee. Once the audit assignment is approved by the Board, the General Auditor reserves the right to determine how to best fit the directed audit assignment into the Audit Business Plan. The reporting process for assignments requested by either executive management, by committees of the Board, or by individual Board members shall generally follow the process outlined in paragraphs 6450(c) or (d) previously.

(g) The General Auditor shall manage the work of the Audit Department in accordance with the Audit Department Charter. The General Auditor shall assess annually whether the purpose, authority and responsibility, as defined in this Charter, continue to be adequate to enable the Audit Department to accomplish its objectives.

Article 5

ETHICS OFFICER

Sec.

6470. Powers and Duties

6471. Authority to Obtain Professional Services

6472. Reports to Ethics, Organization and Personnel-Community and Workplace Culture Committee

§ 6472. Reports to Ethics, Organization and Personnel Community and Workplace Culture Committee.

(a) The Ethics Officer shall annually, in advance of the July Board meetings, submit to the Ethics, Organization and Personnel–Community and Workplace Culture (CWC) Committee a business plan for the Ethics Office containing key priorities for the coming year for review and approval.

(b) The Ethics Officer shall prepare quarterly reports to the Ethics, Organization and Personnel<u>CWC</u> Committee on activities concerning agreements executed pursuant to the authority given to the Ethics Officer in Section 6471, and bi-monthly reports related to pending investigations as specified in Section 6470.

§ 6470. Powers and Duties.

The powers and duties of the Ethics Officer shall be as follows:

(a) The Ethics Officer shall report to the Board, through the Ethics, Organization and Personnel-<u>CWC</u> Committee.

(b) The Ethics Officer shall oversee an Ethics Office staffed with professional, qualified persons.

(c) The Ethics Officer shall be free from political interference in fulfilling the responsibilities detailed in this article and in Division VII.

(d) The Ethics Officer shall have sole authority to interpret Metropolitan's ethics rules.

(e) The Ethics Officer shall propose amendments to the Administrative Code to the Ethics, Organization and Personnel-CWC Committee for approval and adoption by the Board, relating to:

(1) Regulation of lobbying activities;

(2) Conflicts of interest and financial disclosure;

(3) Public notice and approval procedures for contracts of \$50,000 or more;

(4) Disclosure of campaign contributions related to potential conflicts of interest;

(5) Such other ethics rules for application to board members, officers, employees,

lobbyists, lobbying firms, and contractors as deemed appropriate.

(f) The Ethics Officer shall educate, train, provide advice and seek compliance from board members, officers, applicable employees, lobbyist, lobbying firms, and Metropolitan contractors and subcontractors concerning:

- (1) The rules prescribed in Division VII;
- (2) The Political Reform Act of 1974, as amended and applicable regulations;
- (3) The conflict of interest rules of Government Code section 1090.

(g) The Ethics Officer shall investigate potential violations of ethics rules in Division VII by board members, officers, applicable staff, lobbyists, lobbying firms, and contractors consistent with the rules specified in Division VII. The Ethics Officer shall prepare status reports of pending investigations on a bi-monthly basis. The reports shall include the general nature and status of the investigation, how long the investigation has been pending, when the investigation is expected to be completed and, when completed, the resolution of the investigation.

(h) The Ethics Officer shall be the filing officer on behalf of the District to receive and file Statements of Economic Interest pursuant to the California Government Code and Section 7501 of this Administrative Code.

(i) The Ethics Officer shall have the authority to confer with the Chair of the Board and the Chair and Vice Chair of the Ethics, Organization and Personnel<u>CWC</u> Committee for the purpose of seeking advice and feedback on any policy and operational matters, or feedback on investigative matters, subject to the confidentiality requirements in section 7412 of the Administrative Code.

(j) The Ethics Officer shall have the authority to obtain, and have unrestricted access to all functions, documents, records, property, personnel and other information requested as part of an Ethics Office complaint or investigation without waiving any privileges that may apply.

§ 6471. Authority to Obtain Professional Services.

(a) The Ethics Officer is authorized to contract for independent legal counsel as they deem necessary in fulfilling duties and responsibilities of the Ethics Office. The Ethics Officer may contract with one or more attorneys or law firms depending on the areas of expertise needed. The amount to be expended in fees, costs and expenses under any one contract in any one-year period shall not exceed \$100,000. The General Counsel shall review such contracts solely for consistency with Metropolitan's contract requirements. The General Counsel shall not have the authority to deny the Ethics Officer's ability to contract with any given party.

(b) The Ethics Officer is authorized to contract for professional services of outside investigators and investigation firms to conduct investigations under the Ethics Officer's purview. The amount to be expended in fees, costs, and expenses under any one contract in any one-year period shall not exceed \$250,000.

(c) The Ethics Officer is authorized to employ the services of other professional or technical consultants for advice and assistance in performing the duties assigned as may be

required or as deemed necessary, provided that the amount to be expended in fees, costs and expenses under any one contract in any one year shall not exceed \$50,000.

(d) The Ethics Officer shall inform the Ethics, Organization and Personnel<u>CWC</u> Committee whenever the authority granted under this section is exercised, and shall further report quarterly on activities concerning any agreements entered into under this section. Any such contracts shall be consistent with Metropolitan contract requirements and shall be reviewed by the General Counsel.

§ 6472. Reports to_<u>Ethics, Organization and Personnel Committee.</u> <u>Workplace Culture Committee.</u>

(a) The Ethics Officer shall annually, in advance of the July Board meetings, submit to the Ethics, Organization and Personnel <u>CWC</u> Committee a business plan for the Ethics Office containing key priorities for the coming year for review and approval.

(b) The Ethics Officer shall prepare quarterly reports to the Ethics, Organization and Personnel<u>CWC</u> Committee on activities concerning agreements executed pursuant to the authority given to the Ethics Officer in Section 6471, and bi-monthly reports related to pending investigations as specified in Section 6470.

Division VII

GOVERNMENTAL ETHICS

Chapter 4

INVESTIGATION BY THE ETHICS OFFICER

Article 1

AUTHORITY TO INVESTIGATE AND JURISDICTION

§ 7405. Investigations of Directors, General Manager, General Counsel, General Auditor, or Ethics Officer.

(a) The Ethics Officer shall retain an outside counsel or investigator to conduct any investigation of alleged violations of Metropolitan ethics rules by a Director, General Manager, General Counsel or General Auditor. The investigation shall be conducted in consultation with the Ethics Officer. The Ethics Officer shall, based on the results of the investigation, make the final determination as to whether a violation has occurred. Prior to retaining the outside counsel or investigator, the Ethics Officer shall notify the Ethics, Organization and PersonnelCommunity and Workplace Culture (CWC) Committee Chair, unless the Chair is the subject of the investigation, in which case the Vice Chair shall be notified.

(b) The Ethics Officer shall refer to the General Counsel any complaint of alleged violations of Metropolitan ethics rules by the Ethics Officer or any member of the Office staff. The General Counsel shall retain an outside counsel or investigator to conduct the investigation in consultation with the General Counsel. The General Counsel shall, based on the results of the investigation, make the final determination as to whether a violation has occurred. Prior to retaining the outside counsel or investigator, the General Counsel shall notify the <u>CWC</u> <u>Committee Ethics, Organization and Personnel Committee</u> Chair.

(c) The General Counsel shall review any contract with an outside counsel or investigator to ensure compliance with Metropolitan contracting requirements.

Article 2

PROCEDURES FOR INVESTIGATIONS

§ 7411. Investigation Timeframe.

(a) Investigations shall be conducted expeditiously and completed within 180 calendar days, except as provided in subparagraph (b). An investigation commences upon the Ethics Officer's determination to open an investigation, but in no event later than 30 calendar days from receipt of the complaint or referral.

(b) For good cause, an investigation may extend beyond 180 calendar days; provided, however, the Ethics Officer shall provide written notice to the subject of the investigation with an expected completion date. The Ethics Officer shall also notify the Ethics, Organization and Personnel <u>CWC</u> Committee Chair whenever an investigation extends beyond 180 calendar days and provide periodic updates on the status of the investigation thereafter.

(c) For purposes of the 180_-calendar day period specified in this section, an investigation terminates upon service of the Ethics Officer's report upon the subject of the investigation, or upon notice of no violation given to the subject of the investigation, pursuant to section 7416.

§ 7412. Confidentiality of Investigations.

(a) Investigations by the Ethics Officer shall be confidential to the fullest extent possible.

(b) The Ethics Officer has the discretion to disclose information related to investigations for significant operational or safety reasons.

(c) The Ethics Officer shall not unnecessarily disclose the identity of the subject of a complaint, except as needed in furtherance of the investigation or otherwise provided by Article 3 of this chapter.

(d) During the investigation, the Ethics Officer shall advise the subject of the investigation, the complainant, and any witnesses of the confidentiality of the investigation.

(e) The Ethics Officer may confer with the Chair of the Board and the Chair and Vice Chair of the Ethics, Organization and Personnel<u>CWC</u> Committee on any investigative matter subject to the following:

(1) The communications shall be for the purpose of feedback.

(2) The communications shall be confidential.

(3) The restrictions on interference with investigations in section 7129(d).

(f) The Ethics Officer shall, to the extent possible, protect the identity of any complainant.

Division VIII

CONTRACTS/DISTRICT PROPERTY

Chapter 2

DISTRICT PROPERTY

Article 4

DISPOSITION OF REAL PROPERTY

§ 8248. Disposal of Unnecessary Improvements.

(a) The General Manager is authorized to dispose of, in the manner the General Manager deems to be in the best interest of the District, any improvements that must be removed to make land acquired for District operations suitable for District use.

(b) The General Manager shall report quarterly to the Finance and Asset Management Finance, Affordability, Asset Management, and Efficiency (FAAME) Committee the details of any transactions during the preceding quarter in which an improvement was disposed of in such a manner as to make the improvement available for subsequent use by a party other than the District.

§ 8257. Quarterly Reports.

The General Manager shall report to the Finance and Asset ManagementFAAME Committee quarterly on any real property sold pursuant to this Article.

Division II

PROCEDURES PERTAINING TO BOARD, COMMITTEES AND DIRECTORS

Chapter 2

BOARD OFFICERS

§ 2204. Delegation of Duties to Vice Chairs.

The Vice Chairs selected by the Chair shall act in the Chair's absence, failure or inability to act. The Vice Chairs shall have ex officio membership and may vote to break a tie and maintain a quorum. If the committee Chair and Vice Chair(s) of the committee are not present in person the Vice Chair may preside over the meeting.

Chapter 3

RULES GOVERNING COMMITTEES

§ 2310. Ad Hoc Committees.

Ad Hoc Committees may be created by the Board to undertake special assignments on behalf of the Board. An ad hoc committee shall exist for a specified term or until its special assignments are completed, whichever comes first, but its existence may be extended for an added term or added assignments by action of the Board. Unless otherwise specified, members of an ad hoc committee shall be appointed by the Chair of the Board and shall serve at the Chair's pleasure. Ad Hoc Committees shall provide reports to the Executive Committee as well as committees where the subjects are relevant.

Chapter 4

STANDING COMMITTEES

Article		Sec.
1	General	2400
2	Executive Committee	2410
3	Audit Committee	2420
4	Engineering, Operations and Technology Committee	2430
5	Finance, Affordability, Asset Management, and Efficiency Committee	2440
6	Legal and Claims Committee	2450
7	Legislation and Communications Committee	2460
8	Organization, Personnel and Effectiveness Committee	2470
9	One Water and Adaptation Committee	2480
10	Community and Workplace Culture Committee	2490

Article 1

GENERAL

Sec.

- 2400. Identification of Standing Committees
- 2401. Officers and Members of Standing Committees
- 2402. Regular Meetings

§ 2400. Identification of Standing Committees.

The Standing Committees of the Board of Directors are:

- Executive Committee (EXEC)
- Audit Committee
- Engineering, Operations and Technology Committee (EOT)
- Finance, Affordability, Asset Management, and Efficiency Committee (FAAME)
- Legal and Claims Committee (LC)
- Legislation and Communications Committee (LEG)`
- Organization, Personnel and Effectiveness Committee (OPE)
- One Water and Adaptation Committee (OWA)
- Community and Workplace Culture Committee (CWC)

§ 2401. Officers and Members of Standing Committees.

(a) Members, Chair, and Vice Chairs of standing committees with the exception of the Executive Committee shall be appointed subject to the approval of the Executive Committee and the Board on the basis that each director, with the exception of the Chair of the Board, serve on at least one standing committees, in addition to the Executive Committee. Such appointment shall be made by the Chair of the Board unless a new Chair-elect has been selected by the Board to take office on the next January 1, in which event appointment of Chair and Vice-Chairs of standing committees shall be made by the Chair-elect.

(b) Chair and Vice Chairs of standing committees with the exception of the Executive Committee are to be appointed in even-numbered years at the December meeting of the Board for a two-year term commencing on January 1 of odd-numbered years. No director shall be appointed to the same committee office for more than two consecutive full terms and a partial term immediately prior to the first term.

(c) The Chair of the Board or the Vice Chair acting in the Chair's absence per Section 2204, is a member ex-officio, with right to vote, of all standing committees, subcommittees, and special committees of the Board. However, the Chair (or the Vice Chair) shall not be considered a member of any committee of which the officer is a member ex-officio for the purpose of determining whether a quorum of the committee is present unless the Chair or Vice Chair is actually present at the meeting of the committee.

(d) The committee Chair's duties include presiding over meetings of the committee, with the exception that the committee may, by a majority vote, overrule parliamentary rulings of the Chair. Any Vice Chair of that committee may serve as the alternate presiding officer of committee meetings when the committee Chair is absent.

§ 2402. Regular Meetings.

The regular meetings of standing committees shall be held on the Monday preceding regular board meetings or on the second or fourth Tuesday of each month. The Audit Committee shall meet on a quarterly basis. If a scheduled meeting falls on a holiday designated in Section 1106, the meeting will be rescheduled to the next business day unless the Board selects an alternative date. Staff will adjust its schedule accordingly.

Article 2

EXECUTIVE COMMITTEE

§ 2410. Membership.

The Executive Committee shall consist of the Chair, Vice Chairs of the Board, Secretary, all past Chairs of the Board who are directors of the District, and the Chairs of the standing committees in addition to the Executive Committee, and four (4) additional directors as nonofficer members. In the absence of a committee Chair, a committee's Vice Chair shall serve as the alternate on the Executive Committee for the absent committee Chair.

§ 2416. Duties and Functions. [Executive Committee]

(a) The Executive Committee shall study, advise, and make recommendations with regard to:

(1) Public information for governmental and other entities and officials, and for the citizens of California regarding matters affecting the District's interests;

(2) Official dealings with the United States Government, the State of California or other states, member public agencies or their sub-agencies, foreign governments and other entities or persons in matters of public policy or other activities as deemed appropriate;

(3) Policies and procedures to be considered by the Board or committees thereof, except for policy matters within the jurisdiction of a specific standing committee;

(4) Matters relating to the Colorado River Board of California;

(5) Major policy issues to be considered by the Board, including proposed amendments to the Metropolitan Water District Act;

(6) Questions raised by the officers and staff in intervals between meetings of the Board and in unexpected situations and emergencies.

(7) The terms and conditions of employment of all consultants and advisors not within the jurisdiction of other committees;

(8) Resolution of conflicting committee recommendations pursuant to Section 2314;

(9) The progress of, and propose modifications to, the Board's goals in light of then existing and projected future conditions; and

(10) Such other matters as may be required by Division II of this Code.

(b) The Executive Committee shall:

(1) Review and approve board and committee agendas and, notwithstanding the jurisdiction of the other standing committees in the Code, have the authority to direct which committee shall consider an item;

(2) Review and approve the scheduling of board and committee meetings;

(3) Be responsible for the oversight and management of the organization including, but not limited to, the form of the District's organization and the flow of the authority and responsibility. This includes monitoring and overseeing the duties and responsibilities of management; and

(4) Consider the effectiveness of the District's internal control system, including information technology security and control.

(c) The Executive Committee shall retain ultimate responsibility for those duties as are specifically assigned to the subcommittees of the Executive Committee.

(d) The Executive Committee shall be responsible for reviewing and approving the annual business plan containing the General Manager's key priorities for the coming year.

(e) As part of the Department Head annual evaluation process, the Executive Committee shall be responsible for engaging in periodic performance expectations discussions, including progress checks, with the General Manager.

(f) The Executive Committee shall also:

(1) Act on behalf of the Board in unexpected situations and emergencies, subject to subsequent approval or ratification of the actions taken whenever such approval or ratification is required by law.

(2) Provide policy guidance where appropriate to those directors and District staff members who are associated with organizations in which the District has membership.

(3) Conduct hearings on appeals of protest denials involving Purchasing Contracts and Professional and Technical Services Contracts pursuant to Section 8150(b).

(i) Hearings shall be held by the committee at its next regular meeting to be held at least 72 hours after the filing of the notice of appeal of the General Manager's determination under Section 8150(b). The decision of the committee shall be final unless the committee chooses to refer the notice of protest to the Board.

(ii) The Chair of the Executive Committee may re-delegate duties provided for under subparagraph (i) above to a minimum of three members of the Executive Committee who shall act in place of the committee.

(4) Resolve disputes over inspection dates and monitor conduct of inspection trips to assure maximum effectiveness.

(5) Address substantiated allegations of discrimination, harassment, and retaliation against directors, the General Manager, General Counsel, General Auditor, and Ethics Officer:

(i) The Executive Committee shall create an ad hoc subcommittee of three members and two alternates that will serve for a period of one year to address substantiated findings of violations determined as a result of Equal Employment Opportunity (EEO) investigations conducted for alleged violations of Section 2131 made against a director and for alleged violations of Section 6305 made against the General Manager, General Counsel, General Auditor, or Ethics Officer. If any director serving on the three-member subcommittee is an involved party to an EEO investigation, or has a conflict of interest with any involved party, the conflicted director shall recuse themselves from the matter. The Chief EEO Officer (EEO Officer) will select an alternate director to fulfill all subcommittee duties related to the particular matter. If the EEO Officer has a conflict of interest in the same matter, the Ethics Officer and/or General Counsel will select an alternate director. Directors serving as alternates will not participate in ad hoc committee matters unless or until called to serve.

(ii) The Executive Committee will also select an external law firm to serve as counsel to the ad hoc subcommittee to provide guidance, as needed, for post investigation actions.

(iii) The ad hoc subcommittee shall delegate to the EEO Officer the responsibility to designate an external investigator to conduct a fact-finding EEO investigation pursuant to this section. ALL EEO investigations will be fair,

impartial, timely, and promptly initiated and completed by qualified personnel. Detailed EEO investigative procedures, pursuant to this section can be found in EEO Investigative Procedures for the Board and its Direct Reports. The EEO Officer shall refer substantiated findings of EEO investigations to the ad hoc subcommittee to determine recommended appropriate action. At its discretion, the ad hoc subcommittee may consult with the EEO Officer, Ethics Officer, and/or General Counsel on appropriate action regarding a director or department head. The ad hoc subcommittee shall report a substantiated finding of an EEO violation by a director or department head and recommend appropriate action for the Board's consideration. Appropriate action for directors may include, but is not limited to, counseling, training, a private warning letter, public censure, temporary or permanent removal from committee assignments, or referral to the Director's appointing authority requesting appropriate action. Appropriate action for department heads may include, but is not limited to, counseling, training, performance review, or the imposition of discipline, as deemed appropriate under the circumstances.

7-12

(iv) When the General Manager is a party to the complaint or when in the judgment of the EEO Officer that matter should be handled differently to avoid real or perceived conflicts of interest, or to avoid potential bias or threats to impartiality, the EEO Officer shall delegate to the Ethics Officer the responsibility to retain an external investigator to conduct a fact-finding EEO investigation pursuant to this section. If the Ethics Officer has a conflict of interest in the particular case, the EEO Officer would delegate to the General Counsel the responsibility to retain an external investigator to conduct a fact-finding investigation pursuant to this section. Substantiated EEO findings under this subsection shall be referred directly to the ad hoc subcommittee to determine recommended appropriate action for the Board's consideration.

(v) A deviation of this investigation protocol by the EEO Officer may occur, in certain circumstances, with a written justification and approval of the ad hoc subcommittee responsible for EEO investigations of directors and department heads

(vi) On a quarterly basis, the Chief EEO Officer will report to the Executive Committee EEO case statistics regarding EEO complaints filed against the Board and its direct reports.

Article 3

AUDIT COMMITTEE

§ 2420. Day of Regular Meeting

The regular meetings of the Audit Committee shall be held on a quarterly basis in the months of March, June, September and December.

§ 2421. Duties and Functions

The Audit Committee shall study, advise, and make recommendations with regard to:

(a) All reports of the General Auditor and external auditors, including the audited financial statements of the District;

(b) The Audit Department's annual business plan and biennial budget;

(c) Requests from other committees of the Board and individual Board members for audits and review not included in the Audit Department's annual business plan.

(d) Monitor and oversee the duties and responsibilities of the Audit Department and the external auditors as those duties and responsibilities relate to the effectiveness of the District's internal control system.

(e) Review and approve, in advance of the July Board meeting, the Audit Department annual business plan containing the key priorities of the General Auditor and the Audit Department.

(f) As part of the Department Head annual evaluation process, be responsible for engaging in periodic performance expectations discussions, including progress checks, with the General Auditor.

(g) Monitor compliance with the recommendations of the California State Audit (April 2022).

Article 4

ENGINEERING, OPERATIONS AND TECHNOLOGY COMMITTEE

Sec.

- 2430. Day of Regular Meeting
- 2431. Duties and Functions

§ 2430. Day of Regular Meetings.

The regular meetings of the Engineering, Operations and Technology (EOT) Committee shall be held on the Monday preceding regular board meetings or on the second or fourth Tuesday of each month.

Article 5

FINANCE, AFFORDABILITY, ASSET MANAGEMENT, AND EFFICIENCY COMMITTEE

Sec.

2440. Day of Regular Meeting

2441. Duties and Functions

§ 2440. Day of Regular Meetings.

The regular meetings of the Finance, Affordability, Asset Management, and Efficiency (FAAME) Committee shall be held on the Monday preceding regular board meetings or on the second or fourth Tuesday of each month.

§ 2441. Duties and Functions.

The Finance and Asset Management Committee shall study, advise and make recommendations with regard to:

(a) Preparation of budgets;

(b) Policies and procedures related to budget development and cost containment;

(c) Sale of bonds and borrowing and repayment of money;

(d) Disposition and investment of funds;

(e) Authorization of appropriations, except appropriations for capital projects;

(f) The determination of revenues to be obtained through water transactions, including, but not limited to, sales, exchanges, and wheeling of water, water standby or availability of service charges, and the levying of taxes;

(g) The financial impact and requirements of policies concerning annexation;

(h) The financial aspects of the District's risk management program;

(i) Questions pertaining to insurance coverage and self-insurance;

(j) The selection of financial and insurance consultants and the determination of the scope of their assignments;

(k) Form and contents of accounts, financial reports, and financial statements;

(l) Proposed amendments to the Metropolitan Water District Act affecting the finance and asset management functions of the District;

(m) Goals and objectives related to financial planning for Metropolitan, including but not limited to revenues, operating expenses, reserve policies, internally funded construction, debt management, investments and capital financing strategies;

(n) The prices and conditions governing water transactions, including, but not limited to, sales, exchanges, and wheeling sales of water;

(o) Costs and accounting procedures relating to the District's and other state water service contracts;

(p) Policies regarding water transactions, including, but not limited to, the sale, exchange, and wheeling of water for various uses;

(q) Policies regarding allocation of water standby or availability of service revenue requirements among member public agencies;

(r) Water standby or availability of service charges within the District;

(s) Determinations by the General Manager with respect to appeals concerning charges for water service, including readiness-to-serve charges and capacity charges, and report its recommendations, as appropriate, to affirm or reverse the General Manager's determinations;

(t) Appeals from determinations by the General Manager to deny or qualify an application for exemption from the water standby charge, and report its recommendations, as appropriate, to affirm or reverse the General Manager's determinations;

(u) The purchase, management and disposition of personal property assets such as equipment and vehicles;

(v) Facility master plans, including budgeting for capital improvements and long-term facilities commitments;

(w) Proposed rules and proposals regarding business development opportunities for real property;

(x) Policies for the acquisition of rights-of-way;

(y) The purchase, sale, and leasing of land and buildings, including the District's various office and garage space needs;

(z) The incidental use of land in farming operations and otherwise;

(aa) The operation and maintenance of buildings;

(bb) The development, oversight, and coordination of recreational facilities at Diamond Valley Lake and Lake Skinner;

(cc) The use of proceeds from the sale or disposition of surplus property related to Diamond Valley Lake and Lake Skinner for recreational purposes;

(dd) Annexations and annexation policies including the requirements, procedures, terms and conditions for annexation.

Article 6

LEGAL AND CLAIMS COMMITTEE

Sec.

2450. Day of Regular Meetings

2451. Duties and Functions

§ 2450. Day of Regular Meeting.

The regular meetings of the Legal and Claims Committee (LC) shall be held on the Monday preceding regular board meetings or on the second or fourth Tuesday of each month.

Article 7

THE LEGISLATION AND COMMUNICATIONS COMMITTEE

Sec.

- 2460. Day of Regular Meeting
- 2461. Duties and Functions
- 2462. Vice Chairs.

§ 2460. Day of Regular Meeting.

The regular meetings of the Legislation and Communications (LEG) Committee shall be on the Monday preceding regular board meetings or on the second or fourth Tuesday of each month.

§ 2461. Duties and Functions.

The Legislation and Communications Committee shall study, advise and make recommendations to the Board with regard to:

(a) Proposals of the General Manager, other committees, and board members concerning State and Federal legislation or amendments thereto, that may affect the District;

(b) Recommendations for new legislation identified by members of the Board or the General Manager;

(c) Opportunities for members of the Board to assist in outreach activities, including efforts to inform members of the Legislature or the Congress of the District's position with regard to proposed legislation;

(d) The effectiveness of legislative and administrative advocacy efforts by staff and members of the Board;

(e) The development and implementation of Directors' inspection trips, including the expectations and goals for these trips;

(f) The development and implementation of school education programs, including the expectations and goals for these programs;

(g) The effectiveness of Metropolitan's external affairs programs and general communications efforts directed at member agencies and the general public; and

(h) The selection of public information consultants and the scope of their assignments.

§ 2462. Vice-Chairs.

The Board Chair shall designate two Vice Chairs for the committee, one to preside over legislative affairs, the other over communications matters.

Article 8

ORGANIZATION, PERSONNEL AND EFFECTIVENESS COMMITTEE

Sec.

2470. Day of Regular Meeting

2471. Duties and Functions

§ 2470. Day of Regular Meeting.

The regular meetings of the Organization, Personnel and Effectiveness (OPE) Committee shall be held on the Monday preceding regular board meetings or on the second or fourth Tuesday of each month.

§ 2471. Duties and Functions.

The OPE Committee shall study, advise and make recommendations with regard to:

(a) The form of the District's organization and the flow of authority and responsibility;

(b) Periodic independent reviews and studies of the organization, classification of positions, job duties, salaries, and salary ranges;

(c) Relations between the District and its employees, including all matters affecting wage, hours, pension plans and other employee benefits, and other terms and conditions of employment, as well as the district's negotiation of such matters with employee bargaining units and selection of negotiators;

(d) Areas of special concern to the District and its employees, including, but not limited to work rules pertaining to the health and safety of employees;

(e) Policies and rules regarding employment, discipline and discharge of District officers and employees;

(f) Proposed amendments to the Metropolitan Water District Act and Administrative Code affecting contract procedures and policies, the organization and personnel policies of the District and to the Public Employees' Retirement Law;

(g) Information technology strategies, projects and activities, including information technology asset management and the budgeting and tracking of information technology resources; and

(h) Oversight of workforce training programs, including strategic planning, needs assessment, program design and development, and metric-based evaluation.

(i) Recruitment of top-tier talent throughout the District and securing leaders with exceptional skills, qualities, and abilities.

(j) Policies and procedures concerning District personnel matters.

Article 9

ONE WATER AND ADAPTATION COMMITTEE

Sec.

2480. Day of Regular Meeting 2481. Duties and Functions

§ 2480. Day of Regular Meeting

The regular meetings of the One Water and Adaptation Committee (OWA) shall be held on the Monday preceding regular board meetings or on the second or fourth Tuesday of each month.

§ 2481. Duties and Functions

The OWA Committee shall have oversight over the planning, prioritization, and funding of any current or future regional demand management or any regional or local supply projects within the Metropolitan service area receiving funding from Metropolitan, such as the Regional Recycling Project and local projects funded through Metropolitan's Local Resources Program. The committee shall review and consider:

(a) Establishing policies and programs regarding water conservation and reuse, watershed management, storm water capture and management, recycling, sustainable groundwater management and protection, underground storage, and use thereof;

(b) Seawater desalination, recycling and reuse, and brackish water issues in Metropolitan's service area, and use thereof;

(c) Overseeing development and implementation of Metropolitan's Local Resources Program and Conservation Program and other efforts to meet local supply and water use efficiency goals;

(d) The effect of existing and proposed federal, state and local environmental, water supply and water management statutes and regulations on supplies produced or that may be produced within the District's region;

(e) Recommendations for comprehensive solutions to regional supply problems with the intent to increase water reliability, cost effectiveness, and environmental benefit;

(f) Expanding Metropolitan's understanding of regional water supply issues by inviting informational presentations and feedback from external representatives;

(g) Recommendations to the Board on policies and programs that will strengthen relationships with other agencies in furthering Metropolitan's objectives for increased regional self-reliance and greater water use efficiency;

(h) Creating opportunities for collaboration to advance the development of local supplies and achieving greater water use efficiency;

(i) Coordinating and aligning new water supplies, local resources projects and programs, and investments with other Metropolitan strategic priorities and initiatives;

(j) Developing criteria for the prioritization of investments in new water supplies;

(k) Policies, sources, and means of importing and distributing water, transferring water, and wheeling water as required by the District;

(1) Policies and procedures regarding the delivery and exchange of water for various uses;

(m) Metropolitan Water Supply Planning including the Integrated Resources Planning Process and completion of the Urban Water Management Plan and related policies; and

(n) Environmental compliance and requirements, and informing the technical aspects and science factors in providing comments to regulatory agencies and legislation affecting the regulation of water supply operational facilities and the conditions that they operate under.

Article 10

COMMUNITY AND WORKPLACE CULTURE COMMITTEE

Sec.

2490 Day of Regular Meeting

2491 Duties and Functions

§ 2490. Day of Regular Meeting

The regular meetings of the Community and Workplace Culture (CWC) Committee shall be held on the Monday preceding regular board meetings on the second or fourth Tuesday of each month.

§ 2491 Duties and Functions

The CWC Committee shall study, advise and make recommendations, as follows:

(a) With regards to ethics matters:

(1) Periodic performance expectations discussions, including progress checks, with the Ethics Officer.

(2) Monitoring and overseeing the duties and responsibilities of the Ethics Officer to ensure the independence of the Ethics Officer.

(3) Receive and review bi-monthly status reports of pending investigations by the Ethics Officer. The reports shall include the general nature and status of the investigation, how long the investigation has been pending, when the investigation is expected to be completed and, when completed, resolution of the investigation.

(4) Receive and review quarterly reports from the Ethics Officer on any engagement of professional and technical consultants.

(5) Review and approval of the business plan containing the key priorities for the coming year for the Ethics Office. It shall review and approve the business plan in advance of the July Board meeting.

(b) With respect to matters of equal employment opportunity and of diversity, equity and inclusion:

(1) Direct and receive reports from, and be the home committee for Metropolitan's Diversity, Equity and Inclusion Officer, and Metropolitan's Chief Equal Employment Opportunity Officer;

(2) Receive input, policy and procedure recommendations from the Diversity, Equity and Inclusion Officer;

(3) Study diversity, equity, and inclusion issues within Metropolitan to recommend ways to enhance and promote equal opportunity, affirmative action, increased diversity of the workforce and a culture of inclusion within Metropolitan;

(4) Monitor performance of efforts to promote workforce development programs, including training and advancement opportunities at Metropolitan to increase diversity, equity and inclusion within Metropolitan and benefit the communities within Metropolitan's service area; and

(5) Study areas of special concern to the District and its employees, including, but not limited to, equal employment opportunity and affirmative action.

(6) Study, advise and make recommendations on the ways the District can:

(i) Better serve the disadvantaged and underserved communities within Metropolitan's service area, and mitigate issues of affordability;

(ii) Improve the access of disadvantaged and underserved communities to reliable, high-quality drinking water supplies;

(iii) Increase participation of currently underserved communities in Metropolitan's rebate, conservation, and other local resources programs; and

(iv) Assist and support member agency programs and advocate for underserved communities, including providing communications, operational and technical assistance, with focus on consumer confidence in drinking water.

(7) Monitor Metropolitan's compliance with laws governing equal opportunities and employment and the manner in which investigations are conducted in compliance with such laws.

Division IV

WATER SERVICE POLICIES

Chapter 3

WATER TRANSACTIONS REVENUE

§ 4304. Apportionment of Revenues and Setting of Water Rates.

(a) Not later than at its February meeting the General Manager shall present to the Finance, Affordability, Asset Management, and Efficiency (FAAME) Committee of the Board:

(1) Determinations of the revenue requirements and cost of service analysis supporting the rates and charges required during the biennial period beginning the following July 1, as determined by the General Manager in accordance with current Board policies, and,

(2) Recommendations of rates including, but not limited to, the System Access Rate, Water Stewardship Rate, System Power Rate, Treatment Surcharge, and the Supply Rates for the various classes of water service to become effective each January 1 of the biennial period. These recommended rates shall be the General Manager's determination, made in accordance with current Board policies, of the rates necessary to produce substantially the revenues to be derived from water transactions, including, but not limited to, sales, exchanges, and wheeling, during the biennial period beginning the following July 1.

(b) Not later than at its February meeting, the General Manager shall also present to the FAAME Committee recommendations regarding the continuation of a water standby charge or the imposition of an availability of service charge (such as the readiness-to-serve charge and capacity charge), which shall be the General Manager's determination, made in accordance with current Board policies, of the charge necessary to produce substantially the revenues to be derived from fixed revenue sources, if any, exclusive of taxes, during the biennial period beginning the following July 1 which said committee has determined to be necessary.

(c) Not later than its February meeting the FAAME Committee shall set a time or times for, and shall thereafter hold, one or more meetings of said committee, to be held prior to its regular April meeting, at which interested parties may present their views regarding the proposed water rates and availability of service charges to the committee. The committee shall direct the General Manager to cause the publication of a notice of such public hearing to be published in newspapers of general circulation within the District's service area. Such notice shall be published not less than 10 days prior to the public hearing.

(d) Not later than its regular April meeting the FAAME Committee shall make its determination regarding the revenue requirement to be paid from water rates and the water rates to become effective each January 1 of the biennial period and shall recommend said water rates to the Board no later than the Board's regular April meeting.

(e) Not later than its April meeting, the Board shall establish water rates for deliveries beginning each January 1 of the biennial period.

(f) Proposals for changes in water rates to become effective at times other than on January 1 shall require adequate notice to the public and a hearing before such proposals are

acted upon by the Board, unless the Board finds that an immediate change in water rates is urgent.

§ 4305. Setting of Charges to Raise Fixed Revenue.

(a) Not later than its regular May meeting each year, the FAAME Committee shall make its final determination regarding the water standby charge or other fixed revenue charge, if any, for the fiscal year beginning the following July 1, and shall recommend such charge, if any, to the Board at its regular May meeting.

(b) Not later than such May meeting, the Board shall consider and take action upon the recommendations, if any, of the FAAME committee regarding a fixed revenue source, exclusive of taxes, to become effective the following January 1 or for the fiscal year beginning the following July 1, as determined by the Board for each fixed revenue source.

Chapter 5

WATER SERVICE REGULATIONS - GENERAL

§ 4507. Billing and Payment for Water Deliveries.

(a) **Timeframe for Billing and Payment.** Except as noted herein below, invoices shall be mailed electronically, or, if requested by the member agency, by hardcopy via United States mail, not later than the tenth day of the month following delivery to a member public agency. Each such invoice shall indicate the date of mailing and the date on which the payment thereunder becomes delinquent and shall show the total amount of water delivered for each class of service, the charges for water sold and delivered for each class, the readiness-to-serve and capacity charges, as applicable, and the total amount due and owing, all as determined by the General Manager. Payment of the amount shown on any such invoice shall be due on the last business day of that month and shall be delinquent if not received by the Treasurer of the District before the close of crediting activity on the last business day of the first month following such date of mailing. When making any such payment the member public agency shall specify the invoice or invoices to which the payment shall be credited by the District.

(1) For purposes of Section 4507(a), "business day" shall mean any day other than a Saturday, a Sunday, or a Holiday (as defined in Section 1106).

(2) For purposes of Section 4507(a), "received by the Treasurer of the District" shall mean receipt either (1) in the office of the Treasurer or (2) by crediting pursuant to advance agreement with the Treasurer to the District's general demand account at the District's principal depository bank, in such form that the funds are immediately available for investment or other use or disposal by the District.

(3) For purposes of Section 4507(a), "crediting activity" shall mean either (1) 2:00 p.m. if payment is delivered to the office of the Treasurer, or (2) the cutoff time for crediting by the District's principal depository bank of that day's transactions if payment is initiated by wire

transfer, automated clearinghouse transfer, interbranch transfer, direct deposit, or by other means pursuant to advance agreement with the Treasurer.

If, under advance agreement with the Treasurer, a member agency has authorized payment of any invoice by automated clearinghouse transfer initiated by the Treasurer, the Treasurer shall initiate such transfer for processing two business days prior to the business day on which such payment shall be delinquent. Failure of such transfer shall not relieve such member agency from liability for such payment or charges in the event such payment should become delinquent, except as specifically provided under advance agreement with the Treasurer.

(b) Full Service and Emergency Storage Program Facility. In cases where water through a particular facility is delivered during any month for full service or Emergency Storage Program Service, the bill for water delivered in such month will be prepared by applying the rates for water sold and delivered in full service to the total quantity of water delivered. If the member public agency desires to receive credit for water used in Emergency Storage Program Service, the facts concerning the quantities of water so used must be certified to the District via the District's electronic certification and billing system by an authorized user for the member public agency purchasing such water as provided for in Section 4507 (c). The amount of such credits shall be based on the difference in water rates in effect at the time the water is used.

(c) Late Certifications. Based on available information, the District will notify a member agency for any certification that it has not received, if known, three months from the end of the month for which the agency would normally certify. No certification received after six months following the end of any month in which such a credit is claimed will be accepted. Certifications must be received by Metropolitan before 3:30 p.m. on the third working day after the end of the month to receive credit for any preceding month on the next bill, subject to the provisions with respect to late certifications in this Section. This Section applies to all cases where a certification is required to receive a credit, whether or not specifically named in this Section, unless otherwise provided by this Code.

(d) **Determination by General Manager as to Type of Delivery.** In the event the respective quantities of water sold and delivered in any month on order of any member public agency for use therein in any water program or contract requiring certification, are not determinable to the satisfaction of the General Manager in time for preparing regular monthly bills, then billing and payment for all water sold and delivered in such month to such member public agency shall be made at the rates prescribed for water used in full service in Section 4401(a)(1) hereof. Upon the determination by the General Manager of the correct quantities of water sold and delivered and used in any water program or contract requiring certification, any adjustment which is necessary to give effect to the applicable credit for the water used in any water program or contract requiring certification, shall be made by application of credits on subsequent purchases of water from the District by such member public agency. Such adjustments shall not be made in cases where a claim for the applicable credit is not submitted within the period provided in Section 4507(c).

(e) **Obligation to Pay for Appropriate Class of Service.** If water has been sold and delivered at the rates prescribed for water sold in any water program or contract and appropriate

certifications have been submitted for the water so used, but the water has in fact been used in full service or another class of service, the member public agency shall be obligated to pay the difference between the rates prescribed for water sold for the applicable water program or contract and the rates prescribed for the class of service actually used.

(f) Submission of Documentation by Member Agency. With respect to water sold and delivered at the rates prescribed for water sold under water programs or contract (unless otherwise specified in an agreement with the District), original documentation supporting the use of such water as certified must be submitted no later than December 31 following the end of the fiscal year for which a certification is submitted, unless otherwise specified in an agreement with the District. If the documentation is not submitted by December 31 following the end of the fiscal year for which a certification was submitted, an agency will receive a late penalty of \$2,500. If the agency does not submit documentation by February 28/29 following the end of the fiscal year for which a certification was submitted, it shall be conclusively presumed that:

(1) The water sold from the District was used for full service, and the District's next monthly billing shall reflect such adjustment; or

(2) The yield was not produced as certified and the District's next monthly billing shall reflect such adjustment.

This provision will apply individually to each program or agreement that an agency or subagency participates in separately.

(g) **Review Process.** With respect to water sold and delivered at the rates prescribed for water sold under water programs or contract (unless otherwise specified in an agreement with the District) the District will complete its review within twelve months from date of receipt of the original supporting documentation.

(1) Should the District not complete its review within twelve months of the submittal of all source documentation, the review will be considered complete and the certifications final.

(2) When the review is completed, the District will notify the member agency of its initial findings for its comments. The member agency will provide its comments within 60 days. Metropolitan staff and the agency will work together to reconcile any differences.

(3) If the member agency and Metropolitan staff cannot reconcile the differences, Metropolitan's Water System Operations' Group Manager has the responsibility to consult with the member agency and make a final ruling, subject to the General Manager's oversight. If the ruling is unsatisfactory to the agency, it can be appealed to Metropolitan's Finance, Affordability, Asset Management, and Efficiency Committee.

(4) If the member agency does not provide further documentation correcting Metropolitan staff findings within the 60-day comment period as specified in (g) (2), then

it shall be conclusively presumed that the District's findings are correct and the District's next monthly billing shall reflect such adjustment.

(h) **Discovery of Mistakes or Errors.** In the event a mistake or error is discovered in a District water sales record, the General Manager shall initiate appropriate corrective action. No mistake or error made more than three years prior to its discovery shall be corrected unless otherwise specified in an agreement with the District. In the event a mistake or error is discovered by a member agency in its water sales record or certifications, no mistake or error made more than three years prior to its discovery shall be corrected unless otherwise specified in an agreement with the District.

(1) A District water sales record shall include a water billing invoice, or district invoice for other water-related charges.

(2) If the District finds the mistake or error, the discovery of the mistake or error shall be documented in writing to the member agency. The date of discovery for corrective action purposes shall be the date notice is sent to the member agency.

(3) If the member agency discovers the mistake or error, the discovery of the mistake or error shall be documented in writing to the District by either a revised certification form or letter, whichever is applicable. The date of discovery for corrective action purposes shall be the date the certification or letter is received by the District.

(4) If an incorrect invoice has been issued to a member public agency, the General Manager shall notify the affected agency of any adjustment and the manner of making any required credit or charge, neither of which shall bear interest.

(5) Mistakes or errors shall also include but are not limited to mistakes or errors in metering or recording deliveries to member agencies, entry or calculation errors in fixed charges, discovery of errors in either a member agency or sub-agency submitted certification(s), or processing of a certification(s) for the Local Projects Program, the Local Resources Program, the Groundwater Recovery Program, Conservation Credit Program, or any other water management program or storage programs or agreements unless specified otherwise in the contract.

(6) Any mistakes or error for a fiscal year period that is less than five acre-feet cumulative by agency or sub-agency, by program or agreement, shall be waived.

(i) **Rate Change.** In the event that deliveries of water are made by the District to member public agencies over a billing period during which the District's water rates change, the General Manager may cause the meters recording deliveries of water during such period to be read at the end of the period and the statement of charges for such deliveries of water may be based on a proration between the previous and new water rates for the periods of time during which each were in effect as determined by the General Manager.

Division V

FINANCIAL MATTERS

Chapter 1

ADMINISTRATIVE MATTERS

§ 5104. Payment After Loss of Bond Interest Coupon.

(a) The Treasurer of the District is authorized to effectuate payment, without action of the Board, of a claim arising from the loss of a bond interest coupon that has been detached from a District bond or from the destruction of a bond interest coupon at any time after the date of its maturity, and the Treasurer has received:

(1) An affidavit or affidavits establishing the ownership of the coupon and reciting therein the circumstances under which it was lost or destroyed; and

(2) An indemnity bond in a penal sum which is at least the amount of the claim, said sum being specifically stated in said bond, said bond to be approved by the General Counsel and then filed with the Treasurer. The indemnity bond must include a rider substantially in the form hereinafter set forth:

(i) Rider.

This Rider is attached to and is a part of the Bond of Indemnity executed by the (enter name of insurance company) respecting the loss of coupons due coupons at \$ per coupon - total \$, detached from \$ Bonds of THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA, numbered to , %, maturing , at \$ each bond in bearer form.

It is understood and agreed that in the event the balance in the coupon account respecting the above-described issue of bonds, maintained by the Treasurer of said District, should hereafter not be sufficient as a result of the payment of coupon(s) to provide for outstanding unpaid coupons, (enter name of insurance company) will reimburse The Metropolitan Water District of Southern California, up to the face amount of the coupon(s) paid under this indemnity contingent upon presentation by said District of (a) evidence that said District has paid the afore-described coupon(s) or (b) a certificate from the Treasurer of said District that there is a deficiency in said coupon account balance.

It is understood that within the first year after the due date of the afore-described coupon(s) that (enter name of insurance company) may request that the Treasurer of said District search the District's records to ascertain if in fact the afore-described coupon(s) have been paid, but any such request shall only be honored by said Treasurer upon payment by (enter name of insurance company) of any fee required by said Treasurer to cover costs of such search.

Executed this day of , 20 .

(enter name of insurance company)

(b) The Treasurer shall report to the Finance, Affordability, Asset Management, and Efficiency Committee all payments made pursuant to this Section 5104.

§ 5105. Lost or Destroyed Bonds.

(a) The Treasurer of the District is authorized to issue a new District bond or bonds similar to the original to replace it if the Treasurer has received:

(1) Proof satisfactory to the Treasurer that the bond has been lost or destroyed; and

(2) Security approved by the Treasurer and the General Counsel from the owner indemnifying the District against any loss incurred on account of the bond, such security to be equal to the principal amount of the bond and plus the aggregate amount of any attached interest coupons; and

(3) The costs for issuance of the new bond.

(b) The Treasurer shall report to the FAAME Committee of the Board all issuances of duplicate bonds made pursuant to this Section 5105.

§ 5107. Biennial Budget Process.

(a) There shall be prepared each even-numbered year, under the direction of the General Manager, a proposed biennial budget covering District operations for the following two fiscal years. The proposed biennial budget shall be submitted to the Board no later than the date of the regular Board meeting in June immediately preceding the first fiscal year of the biennium to which the budget applies. The proposed biennial budget shall indicate by fund all anticipated expenses and required reserves and the source of revenues to be used to meet such expenses and provide such reserves. The proposed biennial budget will at a minimum include a five-year financial forecast. At least one Board Workshop on the proposed biennial budget will be conducted prior to submission of the proposed biennial budget in its entirety, together with the recommendations from the Board workshop, and report its recommendations to the Board.

(b) After considering the proposed biennial budget and making any revisions thereto that it may deem advisable, the Board shall adopt the biennial budget before the beginning of the

biennial period to which the budget applies. The amounts provided in the adopted budget for the biennial period for total expenses for operations and maintenance, including minimum and variable operations and maintenance charges under water or power contracts with the State, for capital charges under such contracts, and for debt service shall be deemed to be appropriated from the funds indicated in the budget.

(c) The adoption of the budget shall have no effect upon appropriations for capital projects and continuing expenditures not susceptible to immediate direct allocation, as described in Section 5108 hereof, and shall not establish any limitations on expenditures for such purposes.

(d) The total operations and maintenance budget shall be measured against the regional rate of inflation as measured by the five-year rolling average change in the Consumer Price Index (CPI) for the Los Angeles-Riverside-range County area, not seasonally adjusted, for all items as reported by the U. S. Bureau of Labor Statistics. The budget will include explanations of increases greater than the CPI due to unique conditions, growth or expansion of services.

Chapter 3

SHORT-TERM REVENUE CERTIFICATES

§ 5305. Report of Exercise of Authority.

The General Manager shall report to the next following meeting of the Finance, Affordability, Asset Management, and Efficiency Committee of the Board any exercise of authority pursuant to this Chapter.

Division VI

PERSONNEL MATTERS

Chapter 1

EMPLOYEE RELATIONS

Article 2

REPRESENTATION PROCEEDINGS

§ 6113. Appeals.

(a) An employee organization aggrieved by an appropriate unit determination of the Employee Relations Officer; or an employee organization aggrieved by a determination of the Employee Relations Officer that a Recognition Petition (Section 6105), Challenging Petition (Section 6107), Decertification Petition (Section 6109), Unit Modification Petition (Section 6111) --- or employees aggrieved by a determination of the Employee Relations Officer that a Decertification Petition (Section 6109) --- has not been filed in compliance with the

applicable provisions of this Article, may, within twenty (20) days of notice of the Employee Relations Officer's final decision request to submit the matter to mediation by the State Mediation and Conciliation Service, or may, in lieu thereof or thereafter, appeal such determination to the Organization, Personnel and Effectiveness (OPE) Committee for final decision within fifteen (15) days of notice of the Employee Relations Officer's determination or the termination of mediation proceedings, whichever is later.

(b) Appeals to the OPE Committee shall be filed in writing with the Board's Executive Secretary, and a copy thereof served on the Employee Relations Officer. The said committee shall commence to consider the matter within thirty (30) days of the filing of the appeal. The committee may, in its discretion, refer the dispute to a third-party hearing process. Any decision of the committee on the use of such procedures, and/or any decision of the committee determining the substance of the dispute shall be final and binding.

Article 5

MISCELLANEOUS PROVISIONS

§ 6121. Interpretation and Administration.

The General Manager shall have authority to interpret and administer provisions of this Chapter, subject to appeal to the Organization, Personnel and Effectiveness Committee.

Chapter 2

PERSONNEL REGULATIONS

§ 6208. Pay Rate Administration.

(a) Pay rate schedules, as approved by the Board, shall include pay rate grades and pay rate ranges consisting of minimum and maximum rates of pay for each position. Except by action of the Board, or as provided in Section 6208(d), the hourly pay rate paid each employee shall be at least the minimum but not in excess of the maximum hourly pay rate prescribed for the applicable position. Notwithstanding any other provision of this section, the salaries of the department heads shall be fixed as a flat rate.

(b) Pay rates for Department Heads shall be individually fixed by the Board. Pay rates for all employees shall be fixed by their respective Department Heads within the ranges fixed by the Board for such positions in accordance with practices, policies and procedures promulgated by the General Manager. The Board at its August meeting will review each Department Head's salary and compensation after determining an overall performance rating for each Department Head, and make adjustments as appropriate, if any, based on salary comparisons, pay rate survey and/or performance, with any change to be effective at the beginning of the pay period that includes the prior July 1.

(c) Job descriptions in terms of duties and responsibilities shall be prepared by the Director of Human Resources for each position. Job descriptions for positions requiring appointment or approval of appointment by the Board shall be submitted to the Board for approval. Job descriptions for positions peculiar to the Legal or Audit Departments or Ethics Office shall be subject to approval of the General Counsel, General Auditor, or Ethics Officer as appropriate. It shall be the duty of Human Resources to insure that all employees are properly classified.

(d) The General Manager is authorized to provide for payment at a "Y" rate to any employee whose position is reclassified to a position in a lower pay rate or the pay rate of whose position is reduced and the General Manager may maintain the employee at a "Y" rate until such time as the General Manager deems the "Y" rate to be no longer justified. As used herein, "Y" rate means a pay rate higher than the highest rate applicable to the employee's position.

(e) New employees, upon entering District service, will be placed by the Director of Human Resources at a salary grade and step within the salary range appropriate for the position available and the applicant's qualifications. Employees who are promoted to a position in a higher range shall be paid at least the minimum of such range but not more than four steps over their prior rate or the fifth step of the higher pay rate range, whichever is higher, but not in excess of the maximum rate specified for the position to which promoted. New employees are eligible for a merit increase after completion of a six-month probationary period. The eligibility date for subsequent merit reviews shall be 12 months from the most recent merit increase, promotion or demotion, whichever is later. Employees at the top step of the pay range will not be eligible for any merit increase. Merit increases will be awarded as provided for by Section 6211.

(f) Pay rates for temporary employees in District service are the rates paid to regular employees in the same classifications.

(g) Subject to Section 6211, the performance of regular employees other than Department Heads, will be annually reviewed by their Department Heads to determine eligibility for merit increases under evaluation procedures, guidelines and rules developed by the General Manager. Changes in pay rate ranges approved by the Board have no effect upon these limitations.

(h) Pay Rate Survey.

(1) As needed, the General Manager has the authority to cause a survey to be made of rates of pay and benefits of employees of other organizations specified by the Board, and may thereafter recommend to the Board revisions in the pay rate structure and benefits for employees. The survey need not include positions for which pay rates are established pursuant to a memorandum of understanding approved by the Board which is in effect for the entire calendar year. Action, if any, on the pay rate survey may be taken at the same meeting the survey information is presented or at a subsequent meeting. The General Counsel, General Auditor and Ethics Officer may also recommend to the Organization, Personnel and Effectiveness Committee revisions regarding positions peculiar to their own departments. (2) The list of agencies to be used in the District's pay rate survey may include the following:

County of Los Angeles East Bay Municipal Utility District Los Angeles Metropolitan Transportation Authority Los Angeles County Sanitation District Los Angeles Department of Water & Power Orange County Water District San Diego County Water Authority San Francisco Public Utilities Commission State Department of Water Resources

The nine comparator agencies were selected by comparing the following factors: Industry (type of utility), total number of units managed, population served, total number of employees, total assets, net operating income, gross revenue, and total service area (square miles).

(i) For temporary construction personnel employed under authority of Section 6207(c), the General Manager is authorized to fix the hourly rates of pay at least equal to, but not more than 20 percent higher than, those so determined by the Board to be prevailing in the county in which such personnel primarily will be engaged.

§ 6209. Discharge.

(a) Unclassified employees, other than executive officers and their principal assistants, may be removed by their respective Department Heads, but may appeal such removal to the OPE Committee. The decision of the Committee will be final unless the Committee chooses to refer the appeal to the Board.

(b) Probationary employees serve at the pleasure of their respective Department Heads. Classified employees may be discharged, for cause, immediately by their respective Department Heads. When immediate discharge is not deemed appropriate, written notice shall be given at least 14 calendar days in advance of discharge for probationary employees and at least 30 calendar days in advance of discharge for other classified employees.

(c) Regular non-probationary classified employees who are discharged are afforded the due process rights provided under Section 6218 of this Code or as provided in the applicable memorandum of understanding.

Chapter 3

GENERAL EMPLOYEE MATTERS

Article 1

EQUAL EMPLOYMENT OPPORTUNITY AND AFFIRMATIVE ACTION

§ 6304. General Manager's Report on Equal Employment Opportunity Policy and Affirmative Action Program.

Annually, the General Manager shall report to the Community and Workplace Culture Committee on the status of the equal employment opportunity policy and affirmative action program.

Chapter 4

OFFICERS

Article 2

GENERAL MANAGER

§ 6416. Annual Report to Executive Committee

The General Manager shall annually submit to the Executive Committee a business plan containing the General Manager's key priorities for the coming year. The business plan shall be submitted in conjunction with similar plans by the General Auditor to the Executive Committee and the Ethics Officer to the Community and Workplace Culture Committee and the General Counsel to the Legal and Claims Committee.

Article 3

GENERAL COUNSEL

§ 6436. Annual and Quarterly Reports to Legal and Claims Committee.

(a) The General Manager and General Counsel shall report quarterly to the Legal and Claims Committee the exercise of any power delegated to them by Sections 6433 and 6434. The General Counsel shall report quarterly to the Legal and Claims Committee the exercise of any power delegated to them by Section 6431.

(b) The General Counsel shall annually, in advance of the July Board meetings, submit to the Legal and Claims Committee a business plan containing the Legal Department's key priorities for the coming year for review and approval. The business plan shall be submitted in conjunction with similar plans by the General Manager to the Executive Committee and the General Auditor to the Executive Committee, and the Ethics Officer to the Community and Workplace Culture Committee.

Article 4

GENERAL AUDITOR

§ 6450. Powers and Duties.

(a) The District's independent internal auditing function is governed by provisions of the California Government Code and by policies established by the Board of Directors. The Executive Committee is responsible for the oversight of the internal auditing function, approving the Audit Department charter (subject to review and approval of the Board of Directors), selecting and overseeing the work of external auditors, and reviewing reports issued by both the internal auditors.

(b) The General Auditor manages the District's Audit Department and is responsible for formulating departmental policies and procedures; directing and evaluating the performance of work done by employees within the department, administering the internal records of the department; and administering the District's contract for external audit services. The General Auditor shall, annually in advance of the July Board meetings, submit to the Executive Committee an Audit business plan containing key priorities for the coming year for review and approval. The business plan shall be submitted in conjunction with similar plans by the General Manager to the Executive Committee, the General Counsel to the Legal and Claims Committee and Ethics Officer to the Community and Workplace Culture Committee.

(c) The General Auditor shall report the findings, opinions, and recommendations which result from the performance of the duties outlined in paragraph 6450(b) to the General Manager, General Counsel and Ethics Officer for their information and appropriate actions. Whenever an audit report contains recommendations for corrective actions or changes in current practices, the General Manager, General Counsel, Ethics Officer or their designees shall respond to the General Auditor in an appropriate manner and within a reasonable time, indicating their views on the recommendations and proposed actions to be taken, if any.

(d) The General Auditor's reports on internal audit assignments shall be addressed to the Executive Committee. The General Auditor shall have the discretion to determine the form and content of such audit reports, subject to guidance by the Executive Committee. With the exception of those reports which the General Auditor deems to be urgent or confidential in nature, copies of all audit reports addressed to the Executive Committee shall be submitted to the General Manager and General Counsel for review and comment simultaneously to their submittal to the Executive Committee.

(e) The General Auditor shall transmit all reports issued by the District's external auditors to the Executive Committee and any other committees of the Board as may be applicable. Such transmittal letters should include any comments on the external auditor's reports that the General Auditor deems necessary.

(f) The General Auditor may receive requests from time to time from the other executive officers or committees of the Board to perform audit assignments which are not included in the approved annual Audit Business Plan. Similarly, the General Auditor may identify a need to include new assignments in the Audit Business Plan during the year. The General Auditor shall

have sufficient latitude and discretion to include those new assignments in the annual Audit Business Plan as the General Auditor deems necessary based upon their professional judgement and available resources. Requests from other committees of the Board and individual Board members desiring specific audit assignments shall be submitted to the Audit Committee for study, advise, and recommendation, or if such subcommittee is not currently in place, the Executive Committee. Once the audit assignment is approved by the Board, the General Auditor reserves the right to determine how to best fit the directed audit assignment into the Audit Business Plan. The reporting process for assignments requested by either executive management, by committees of the Board, or by individual Board members shall generally follow the process outlined in paragraphs 6450(c) or (d) previously.

(g) The General Auditor shall manage the work of the Audit Department in accordance with the Audit Department Charter. The General Auditor shall assess annually whether the purpose, authority and responsibility, as defined in this Charter, continue to be adequate to enable the Audit Department to accomplish its objectives.

Article 5

ETHICS OFFICER

Sec.

6470. Powers and Duties

6471. Authority to Obtain Professional Services

6472. Reports to Community and Workplace Culture Committee

§ 6472. Reports to Community and Workplace Culture Committee.

(a) The Ethics Officer shall annually, in advance of the July Board meetings, submit to the Community and Workplace Culture (CWC) Committee a business plan for the Ethics Office containing key priorities for the coming year for review and approval.

(b) The Ethics Officer shall prepare quarterly reports to the CWC Committee on activities concerning agreements executed pursuant to the authority given to the Ethics Officer in Section 6471, and bi-monthly reports related to pending investigations as specified in Section 6470.

§ 6470. Powers and Duties.

The powers and duties of the Ethics Officer shall be as follows:

(a) The Ethics Officer shall report to the Board, through the CWC Committee.

(b) The Ethics Officer shall oversee an Ethics Office staffed with professional, qualified persons.

(c) The Ethics Officer shall be free from political interference in fulfilling the responsibilities detailed in this article and in Division VII.

(d) The Ethics Officer shall have sole authority to interpret Metropolitan's ethics rules.

(e) The Ethics Officer shall propose amendments to the Administrative Code to the CWC Committee for approval and adoption by the Board, relating to:

(1) Regulation of lobbying activities;

(2) Conflicts of interest and financial disclosure;

(3) Public notice and approval procedures for contracts of \$50,000 or more;

(4) Disclosure of campaign contributions related to potential conflicts of interest;

(5) Such other ethics rules for application to board members, officers, employees,

lobbyists, lobbying firms, and contractors as deemed appropriate.

(f) The Ethics Officer shall educate, train, provide advice and seek compliance from board members, officers, applicable employees, lobbyist, lobbying firms, and Metropolitan contractors and subcontractors concerning:

- (1) The rules prescribed in Division VII;
- (2) The Political Reform Act of 1974, as amended and applicable regulations;
- (3) The conflict of interest rules of Government Code section 1090.

(g) The Ethics Officer shall investigate potential violations of ethics rules in Division VII by board members, officers, applicable staff, lobbyists, lobbying firms, and contractors consistent with the rules specified in Division VII. The Ethics Officer shall prepare status reports of pending investigations on a bi-monthly basis. The reports shall include the general nature and status of the investigation, how long the investigation has been pending, when the investigation is expected to be completed and, when completed, the resolution of the investigation.

(h) The Ethics Officer shall be the filing officer on behalf of the District to receive and file Statements of Economic Interest pursuant to the California Government Code and Section 7501 of this Administrative Code.

(i) The Ethics Officer shall have the authority to confer with the Chair of the Board and the Chair and Vice Chair of the CWC Committee for the purpose of seeking advice and feedback on any policy and operational matters, or feedback on investigative matters, subject to the confidentiality requirements in section 7412 of the Administrative Code.

(j) The Ethics Officer shall have the authority to obtain, and have unrestricted access to all functions, documents, records, property, personnel and other information requested as part of an Ethics Office complaint or investigation without waiving any privileges that may apply.

§ 6471. Authority to Obtain Professional Services.

(a) The Ethics Officer is authorized to contract for independent legal counsel as they deem necessary in fulfilling duties and responsibilities of the Ethics Office. The Ethics Officer may contract with one or more attorneys or law firms depending on the areas of expertise needed. The amount to be expended in fees, costs and expenses under any one contract in any

one-year period shall not exceed \$100,000. The General Counsel shall review such contracts solely for consistency with Metropolitan's contract requirements. The General Counsel shall not have the authority to deny the Ethics Officer's ability to contract with any given party.

(b) The Ethics Officer is authorized to contract for professional services of outside investigators and investigation firms to conduct investigations under the Ethics Officer's purview. The amount to be expended in fees, costs, and expenses under any one contract in any one-year period shall not exceed \$250,000.

(c) The Ethics Officer is authorized to employ the services of other professional or technical consultants for advice and assistance in performing the duties assigned as may be required or as deemed necessary, provided that the amount to be expended in fees, costs and expenses under any one contract in any one year shall not exceed \$50,000.

(d) The Ethics Officer shall inform the CWC Committee whenever the authority granted under this section is exercised, and shall further report quarterly on activities concerning any agreements entered into under this section. Any such contracts shall be consistent with Metropolitan contract requirements and shall be reviewed by the General Counsel.

§ 6472. Reports to Community and Workplace Culture Committee.

(a) The Ethics Officer shall annually, in advance of the July Board meetings, submit to the CWC Committee a business plan for the Ethics Office containing key priorities for the coming year for review and approval.

(b) The Ethics Officer shall prepare quarterly reports to the CWC Committee on activities concerning agreements executed pursuant to the authority given to the Ethics Officer in Section 6471, and bi-monthly reports related to pending investigations as specified in Section 6470.

Division VII

GOVERNMENTAL ETHICS

Chapter 4

INVESTIGATION BY THE ETHICS OFFICER

Article 1

AUTHORITY TO INVESTIGATE AND JURISDICTION

§ 7405. Investigations of Directors, General Manager, General Counsel, General Auditor, or Ethics Officer.

(a) The Ethics Officer shall retain an outside counsel or investigator to conduct any investigation of alleged violations of Metropolitan ethics rules by a Director, General Manager,

General Counsel or General Auditor. The investigation shall be conducted in consultation with the Ethics Officer. The Ethics Officer shall, based on the results of the investigation, make the final determination as to whether a violation has occurred. Prior to retaining the outside counsel or investigator, the Ethics Officer shall notify the Community and Workplace Culture (CWC) Committee Chair, unless the Chair is the subject of the investigation, in which case the Vice Chair shall be notified.

(b) The Ethics Officer shall refer to the General Counsel any complaint of alleged violations of Metropolitan ethics rules by the Ethics Officer or any member of the Office staff. The General Counsel shall retain an outside counsel or investigator to conduct the investigation in consultation with the General Counsel. The General Counsel shall, based on the results of the investigation, make the final determination as to whether a violation has occurred. Prior to retaining the outside counsel or investigator, the General Counsel shall notify the CWC Committee Chair.

(c) The General Counsel shall review any contract with an outside counsel or investigator to ensure compliance with Metropolitan contracting requirements.

Article 2

PROCEDURES FOR INVESTIGATIONS

§ 7411. Investigation Timeframe.

(a) Investigations shall be conducted expeditiously and completed within 180 calendar days, except as provided in subparagraph (b). An investigation commences upon the Ethics Officer's determination to open an investigation, but in no event later than 30 calendar days from receipt of the complaint or referral.

(b) For good cause, an investigation may extend beyond 180 calendar days; provided, however, the Ethics Officer shall provide written notice to the subject of the investigation with an expected completion date. The Ethics Officer shall also notify the CWC Committee Chair whenever an investigation extends beyond 180 calendar days and provide periodic updates on the status of the investigation thereafter.

(c) For purposes of the 180 calendar day period specified in this section, an investigation terminates upon service of the Ethics Officer's report upon the subject of the investigation, or upon notice of no violation given to the subject of the investigation, pursuant to section 7416.

§ 7412. Confidentiality of Investigations.

(a) Investigations by the Ethics Officer shall be confidential to the fullest extent possible.

(b) The Ethics Officer has the discretion to disclose information related to investigations for significant operational or safety reasons.

(c) The Ethics Officer shall not unnecessarily disclose the identity of the subject of a complaint, except as needed in furtherance of the investigation or otherwise provided by Article 3 of this chapter.

(d) During the investigation, the Ethics Officer shall advise the subject of the investigation, the complainant, and any witnesses of the confidentiality of the investigation.

(e) The Ethics Officer may confer with the Chair of the Board and the Chair and Vice Chair of the CWC Committee on any investigative matter subject to the following:

(1) The communications shall be for the purpose of feedback.

(2) The communications shall be confidential.

(3) The restrictions on interference with investigations in section 7129(d).

(f) The Ethics Officer shall, to the extent possible, protect the identity of any complainant.

Division VIII

CONTRACTS/DISTRICT PROPERTY

Chapter 2

DISTRICT PROPERTY

Article 4

DISPOSITION OF REAL PROPERTY

§ 8248. Disposal of Unnecessary Improvements.

(a) The General Manager is authorized to dispose of, in the manner the General Manager deems to be in the best interest of the District, any improvements that must be removed to make land acquired for District operations suitable for District use.

(b) The General Manager shall report quarterly to the Finance, Affordability, Asset Management, and Efficiency (FAAME) Committee the details of any transactions during the preceding quarter in which an improvement was disposed of in such a manner as to make the improvement available for subsequent use by a party other than the District.

§ 8257. Quarterly Reports.

The General Manager shall report to the FAAME Committee quarterly on any real property sold pursuant to this Article.



Legal and Claims Committee

Chair's Amendments to the Administrative Code

Item 7-12 March 11, 2025

Item # 7-12

Modify Committees and Officers' Roles

Subject

Approve amendments to the Metropolitan Water District Administrative Code to modify the structure and duties of various committees and the roles of specified board and committee officers

Amendments based on Board approval of Chair's recommendations, February II, 2025, Item 6B



Committee Changes

- Organization, Personnel and Effectiveness
- Finance, Affordability, Asset Management, and Efficiency
- Community and Workplace Culture
- One Water and Adaptability
- Audit Committee



Other Committee Changes

- Create an Imported Water Subcommittee
- Eliminate Ad Hoc Committees re:
 - Bay-Delta Negotiations
 - Colorado River
 - San Diego Litigation
 - Boundary Changes



Standing Committees

More flexible monthly meeting schedules

- Monday Before Board
- Second Tuesdays
- Fourth Tuesday added

Audit will meet quarterly.



Board Vice Chairs

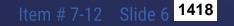
No more fixed "portfolios"

Vice Chairs shall act ex officio in the Chair's absence at committees.

Vice Chairs may:

- Vote to break ties
- Maintain a quorum, if present

Vice Chairs may preside in absences



Ad Hoc Committees

Providing reports

To provide reports to Executive Committee and other committees where the subjects are relevant



Committee Vice Chairs

Alternate on Executive Committee

To act as an alternate on the Executive Committee for absent committee Chairs



Legislation and Communications

Two Vice Chairs

The Board Chair shall designate two Vice Chairs for the committee

- One to preside over legislative affairs
- The other over communications matters



Changes in Committee Roles

Effectiveness and Efficiency

- Community and Workplace Culture Committee
 - Ethics and EEO oversight

Organization, Personnel and Effectiveness

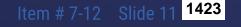
- Workforce training
- Top-tier recruitment
- Personnel



Option #l

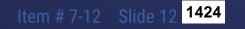
Approve amendments to the Metropolitan Water District Administrative Code to modify the structure and functions of various committees and the roles of specified board and committee officers

Option #2 Do not approve



• Option #1

Staff Recommendation







THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA **Board** Action

8-1

Board of Directors One Water and Adaptation Committee

3/11/2025 Board Meeting

Subject

Authorize an increase of the maximum amount payable under the contract with Richardson & Company LLP for auditing services related to State Water Project charges from \$5,125,000 to an amount not to exceed \$8,900,000 and extend the term by three years to March 31, 2028; the General Manager has determined that the proposed

Executive Summary

action is exempt or otherwise not subject to CEQA

This letter seeks authorization to increase the maximum amount payable under a contract with Richardson & Company LLP (Richardson) by \$3,775,000 and extend the term for three years to March 31, 2028, for the purpose of auditing Metropolitan's annual State Water Project (SWP) charges from the California Department of Water Resources (DWR). Additionally, this would allow Richardson to continue supporting staff in the recovery of claimed overcharges. The SWP audit benefits Metropolitan with cost savings, expenditure insight, and technical support.

Richardson & Company LLP and the predecessor firm Richardson and Company have audited Metropolitan's SWP charges for the last 34 years and, therefore, have a deep understanding of Metropolitan's operations and SWP contract. During that time, Richardson has identified errors and adjustments that reduced Metropolitan's charges by approximately \$304 million. Metropolitan is currently negotiating additional unresolved errors of \$234 million with DWR, including an estimated \$170 million Water Systems Revenue Bond Surcharge item. Richardson also delivers detailed reports on the changes in Metropolitan's charges, the expenditures causing the changes, and provides technical support for protested charges and dispute resolution discussions.

Proposed Action(s)/Recommendation(s) and Options

Staff Recommendation: Option #1

Option #1

Authorize an increase in the maximum amount payable under a contract with Richardson & Company LLP for auditing services related to State Water Project charges from \$5,125,000 to an amount not to exceed \$8,900,000 and extend the term by three years to March 31, 2028.

Fiscal Impact: Professional and technical services costs of up to \$3,775,000 over a three-year period. These annual expenditures have been included in the approved budgets for FY 2024/25 and FY 2025/26. **Business Analysis:** The auditing services provided by the consultant with expertise in auditing SWP contract charges assists staff in evaluating the accuracy of the charges and managing costs of Metropolitan's second largest annual expenditure.

Option #2

Do not authorize the contract increase with Richardson & Company LLP and instead direct staff to issue a Request for Proposals (RFP) for State Water Project charges audit services and return to the Board for authorization.

Fiscal Impact: Dependent on new contract

Business Analysis: This option would require issuance of an RFP and delay processing a new contract for SWP audit services, and could potentially result in higher audit costs.

Alternatives Considered

Staff evaluated if it is cost-effective to have the audit completed by internal audit staff or continue to use Richardson. Factors that were considered during the evaluation included an additional six to eight permanent fulltime internal audit staff in Sacramento for approximately seven to nine months each year and the steep learning curve necessary to become proficient with the compliance review of a unique and technically complex computational process. The Office of the General Auditor voiced concurrence with the staff recommendation of Option #1.

Applicable Policy

Metropolitan Water District Administrative Code Section 8121: General Authority of the General Manager to Enter Contracts

Metropolitan Water District Administrative Code Section 8140: Competitive Procurement

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

Related Board Action(s)/Future Action(s)

Not applicable

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed action is not defined as a project under CEQA because it will not result in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment. (State CEQA Guidelines Section 15378(a).)

CEQA determination for Option #2:

None required

Details and Background

Background

Metropolitan contracts with an independent certified public accounting firm to audit each year's SWP charges billed by the DWR. The audit provides Metropolitan with an independent third-party opinion regarding the consistency of actual charges with the terms of the SWP Water Supply contract.

The audit is atypical for audited financial statements and requires a highly specialized contractual compliance review of a unique and technically complex computational process. The work location is in Sacramento, with the audit process requiring 6,300 to 6,700 hours per year, and a variable workload during the year. During the peak period, an experienced staff of 6 to 12 individuals perform the audit work.

Currently, there are only two consulting firms that have the SWP contractual and technical accounting knowledge to complete the audit, EY (formerly Ernst and Young) and Richardson. In 1990, as a result of a merger, EY completed the review for the audit charges for Metropolitan and the other State Water Contractors. However, in 1991, EY decided not to compete for Metropolitan's audit work due to the conflict-of-interest clause in the contract agreement. EY continues to audit the charges for other State Water Contractors through the Independent Audit Association. EY assisted Metropolitan in transitioning to a new firm. The new firm was Richardson & Company LLP.

Between 1991 and 2001, Metropolitan's consulting agreements were annual rollover agreements with a six-month termination notice. The agreements were consistent with Metropolitan's Administrative Code Section 8140(1)(h), which provides that all contracts estimated to cost \$75,000 or more shall be made upon a competitive procurement method of either competitive sealed bidding or best value procurement, except contracts for insurance or for services of a professional, artistic, scientific, or technical nature, among others. From 2001 through 2019, Metropolitan sought audit services through four RFPs and one Request for Qualifications (RFQ). During each contracting cycle, the solicitation was broadened. The four RFPs and one RFQ did not result in identifying any accounting firms, other than Richardson, that are professionally and technically qualified, and have an interest in performing the Metropolitan SWP charges audit. In the 2009 solicitation process, Richardson was the only final respondent. In the 2012 and 2019 solicitation processes, Richardson was the only respondent.

There are a number of factors that reduce interest in responding to the SWP charges audit RFP. The most significant are the costs and risks associated with acquiring the specialized knowledge required to gain technical competency in the water resource industry. The conflict-of-interest clause within our agreements with Richardson prevents the consultant from leveraging its investment in knowledge by doing similar work for other water contractors and DWR. The large size of the audit, peak staffing requirements, and Sacramento location are also factors.

Given the ongoing protest and other disputed items, some related to cost reallocation among the SWP Contractors, it is crucial to maintain continuity with Richardson as the auditor. A loss of continuity with Richardson would slow the resolution process. A new consultant would require significant time and resources to reach the same level of competency.

Before an audit service RFP is released, staff evaluates if it is better to have the audit completed by Metropolitan's internal audit staff or continue to use an external consultant. The Office of the General Auditor concurs that the use of an external consultant is the preferred choice.

Summary

The benefits of extending Metropolitan's consultant contract with Richardson include reduced staff costs associated with the RFP process, continued support for claims against DWR for errors in the calculation of the SWP charges, and continuation of reliable and efficient, low-cost audit services. The proposed contract amendment is consistent with Metropolitan's Administrative Code Section 8140(1)(h) because it involves the services of a professional and technical nature.

Brandon J. Goshi Interim Manager, Water Resource Management

2/25/2025 Deven N. Upadhyay, Date General Manager

Ref# wrm12704525

2/25/2025

Date



One Water and Adaptation Committee Authorize Increase in the Richardson Contract Maximum Amount Payable & Extend Term

Item 8-1 March 10, 2025 Item 8-1 Authorize on contract with Richardson & Company

Subject

To increase the maximum amount payable under the contract with Richardson & Company, LLP for auditing services related to State Water Project charges from \$5.1 million to an amount not to exceed \$8.9 million and extend the term by three years to March 31, 2028

Purpose

Request authorization to increase the maximum amount payable and extend the Richardson contract term for the State Water Project auditing services

Recommendation

Authorize an amount payable of \$3.8 million for a three-year contract extension with Richardson

Fiscal and Budget Impact

Cost of up to \$3,775,000 over a three -year period. These annual expenditures have been included in the approved budgets for FY 2024/25 and FY 2025/26



Background Richardson & Company LLP



Richardson Contract Audits the Accuracy of our State Water Project Charges

- Audits annual charges for over 30 years
 - Specialized contractual audit
 - Summary and detailed audit reports
 - Substantial cost savings over time
 - Provides expert technical support
- Current five-year contract ends March 31, 2025



Alternatives Considered



• Steep learning curve

- Industry experience
- Cost effective

final respondent

• New RFP: 4-6 months

• Steep learning curve

Proposed Extension and Amount



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA FIRST AMENDMENT TO AGREEMENT NO. 195314 REVIEW OF THE ANNUAL STATE WATER PROJECT WATER SUPPLY CONTRACT CHARGES

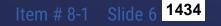
This amendment to Agreement No. 195314, hereinafter referred to as First Amendment, is between THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA, a public agency of the State of California, organized and existing under the Metropolitan Water District Act of the State of California, hereinafter referred to as Metropolitan, and RICHARDSON AND COMPANY LLP, hereinafter referred to as Consultant. • Three-year contract extension

- April I, 2025 to March 3I, 2028
- Increase of approximately \$3.8 million
 - Cost includes inflationary rate increase
- Additional scope:
 - Resolution of Water System Revenue Bond Surcharge claim
 - Settlement of other claims



Summary

- Request amending existing contract to increase the maximum amount payable and extend the agreement for three years
- Richardson is highly experienced, costeffective, and an acknowledged industry expert
- The General Auditor concurs with the extension



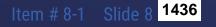
Option #l:

Authorize an increase in the maximum amount payable under a contract with Richardson & Company LLP for auditing services related to the State Water Project charges from \$5,125,000 to an amount not to exceed \$8,900,000 and extend the term by three years to March 31, 2028.



Option #2:

Do not authorize the contract increase with Richardson & Company LLP and instead direct staff to issue a Request for Proposals (RFP) for State Water Project charges audit services and return to the Board for authorization.



Staff Recommendation Option #l







THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Action

• Board of Directors Board of Directors

3/11/2025 Board Meeting

8-2

Subject

Approve New General Manager Employment Agreement and authorize retroactive payment to January 29, 2025; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

Approval is requested to enter into an employment agreement with the selected General Manager, Mr. Deven N. Upadhyay.

Proposed Action(s)/Recommendation(s) and Options

Staff Recommendation:

Option #1

Approve an employment contract with Mr. Deven N. Upadhyay as General Manager, containing the terms and conditions set forth herein; and authorize retroactive payment of the approved salary to January 29, 2025.

Fiscal Impact: \$58,824, not including other Unrepresented benefits costs.

Business Analysis: Supports organizational continuity, leadership stability, and strategic goal alignment.

Option #2

Reject recommendation and direct the Chair to renegotiate an employment contract with Mr. Upadhyay. **Fiscal Impact:** To be determined.

Business Analysis: May delay operational and strategic leadership continuity.

Alternatives Considered

Not applicable

Applicable Policy

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

Related Board Action/Future Action

Not applicable

California Environmental Quality Act (CEQA)

CEQA determination for Option #1

The proposed action is not defined as a project under CEQA because it involves organizational, maintenance, or administrative activities; personnel-related actions; and/or general policy and procedure making that will not result in direct or indirect physical changes in the environment. (Public Resources Code Section 21065; State CEQA Guidelines Section 15378(b)(2) and (5)).

CEQA determination for Option #2:

None required

Details and Background

Background

Pursuant to the action taken at the Special Board meeting of January 29, 2025, the Chair of the Board has negotiated terms and conditions of an employment contract with Mr. Deven N. Upadhyay as General Manager. The following compensation and benefits are recommended for the Board's authorization for Mr. Upadhyay:

- Annual salary: \$495,000.
- Agreement term: Commencing January 29, 2025, and continuing until December 31, 2025. The Board and the General Manager may, by mutual agreement, extend the term through Board-approved amendment.
- Transition support: Upon the expiration of the Agreement on December 31, 2025, the General Manager shall be placed on paid administrative leave for a period of six (6) months, provided that he remains available to assist the successor General Manager in ensuring a smooth transition.
- Car allowance: \$700 per month as authorized by Metropolitan's policy.
- Annual leave accrual: Five (5) weeks per year, using an accumulation factor of .0957854 per hour worked, consistent with his tenure at Metropolitan.
- Involuntary severance: For involuntary severance unrelated to misconduct, twelve months' compensation, and benefits to be received, at Mr. Upadhyay's option, as paid administrative leave or lump sum payment.
- Other benefits: All other compensation and benefits as provided to other Unrepresented Metropolitan employees.
- Additionally, authorize payment of the approved salary retroaction to the date of the appointment, January 29, 2025.

3/4/2025 Mark A. Brower Date

Human Resources Group Manager

3/4/2025 Adan Ortega, Jr. Date Chair of the Board

Attachment 1 – Executive Officer Employment Agreement DEVEN UPADHYAY

Ref# sri12697833

The Metropolitan Water District of Southern California General Manager Employment Agreement Deven N. Upadhyay, General Manager

I. RECITALS

1.1 This Employment Agreement ("Agreement") is entered into as of January 29, 2025, between The Metropolitan Water District of Southern California, a public corporation of the State of California ("Metropolitan" or "MWD"), organized and existing under the Metropolitan Water District Act (Statutes 1969, ch.209, as amended), and Deven N. Upadhyay ("General Manager").

1.2 On January 29, 2025, Metropolitan's Board of Directors ("Board") selected Deven N. Upadhyay as its General Manager, subject to the approval of this Agreement by the Board.

1.3 In consideration of the above recitals and the mutual promises and conditions below, Metropolitan and Deven N. Upadhyay agree as follows.

II. TERM

2.1 Metropolitan shall employ Deven N. Upadhyay as its General Manager commencing January 29, 2025, and continuing until December 31, 2025. The Board and the General Manager may, by mutual agreement, extend the term of this Agreement through an amendment approved by the Board.

2.2 The General Manager shall devote his scheduled work time and exercise his best efforts in the performance of duties as described in Section 6 of this Agreement, in his job classification description pursuant to Division VI, Chapter 4, Article 2 of the MWD Administrative Code, and as assigned. The General Manager shall have no employment outside of Metropolitan employment, except as approved in writing by the Board.

2.3 The General Manager shall perform the services required by this Agreement at Metropolitan's headquarters located at 700 North Alameda Street, Los Angeles, California, or as directed by the Board.

III. COMPENSATION AND BENEFITS

3.1 <u>Salary</u>. Metropolitan shall pay the General Manager an annual base salary of \$495,000, subject to legally permissible or required withholdings, pro-rated and paid on Metropolitan's normal paydays. This salary shall be entitled to the same across-the-board salary adjustment as unrepresented employees. In addition, this salary is subject to adjustment by the Board pursuant to MWD Administrative Code Section 6208, *Pay Rate Administration*, but may

not be reduced except in conjunction with a pro rata reduction of salaries for all other unrepresented employees at Metropolitan.

3.2 <u>Benefits</u>. General Manager shall continue to receive benefits consistent with those afforded to unrepresented employees under the MWD Administrative Code, including but not limited to:

8-2

3.2.1 Leave Accumulation. General Manager shall accrue annual leave at a rate of five (5) weeks per year, using an accumulation factor of .0957854 per hour worked, consistent with his tenure at Metropolitan.

3.2.2 Car Allowance. General Manager shall receive a car allowance of \$700 per month, consistent with the previous General Manager's contract and operating policy J-08.

3.2.3 Retirement Benefits. General Manager shall be entitled to continue to participate in the same Public Employees' Retirement System (PERS) as unrepresented employees.

3.2.3.1 Exclusion from Gross Income. Metropolitan shall pay to the Public Employee Retirement System ("PERS") on behalf of General Manager an amount equal to the required employee contribution to PERS, not to exceed seven percent of General Manager's salary. The contribution shall be treated as an employer contribution (made pursuant to Section 414(h)(2) of the United States Internal Revenue Code) in determining the tax treatment of the contribution. Such contributions shall be paid from the same source as funds as used to pay wages to the General Manager. The General Manager does not have the option to receive the Metropolitan-contributed amount paid pursuant to this Section directly instead of having it paid to PERS. This Section shall be operative only so long as the Metropolitan pick-up of the retirement contributions continues to be excluded from the gross income of the General Manager under the United States Internal Revenue Code.

3.2.3.2 Inclusion in Gross Income. If the Metropolitan pick-up of retirement contributions is subject to inclusion in the gross income of General Manager under the United States Internal Revenue Code, Metropolitan shall cease making contributions pursuant to Section 3.2.2.1 and, provided that Metropolitan may do so pursuant to applicable law and without increasing Metropolitan's or General Manager's other costs attributable to the PERS program, shall increase General Manager's salary by an amount equivalent to the amount that otherwise would be paid to PERS on behalf of General Manager pursuant to Section 3.2.2.1. If applicable law provides that Metropolitan may not so increase General Manager's salary, General Manager's compensation shall not be subject to increase pursuant to this Section to the extent not permitted by law. If Metropolitan may not so increase General Manager's salary without increasing Metropolitan's other General Managers' costs attributable to PERS, General Manager's compensation shall be increased only in an amount equal to the amount that would otherwise be paid to PERS on behalf of the General Manager, less such increased costs attributable to PERS.

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3.2.3.3 Retiree Medical Benefits. The General Manager shall be eligible to receive retiree medical benefits consistent with those provided to unrepresented employees under Metropolitan's employer contributions established pursuant to Resolution No. 9348 (Fixing the Employer Contribution Under the Public Employees' Medical and Hospital Care Act) and Resolution No. 9349 (Fixing the Employer Contribution for Public Agency Vesting Under Section 22893 of the Public Employees' Medical and Hospital Care Act), as those resolutions may be amended or replaced from time to time by Metropolitan. The General Manager acknowledges that such benefits, including the level of employer contributions, are subject to change at the sole discretion of the Board of Directors. Such retiree medical benefits may not be reduced except in conjunction with a reduction for all other unrepresented employees at Metropolitan.

3.2.4 Deferred Compensation and 401(k). General Manager shall continue to participate in the same deferred compensation and 401(k) plan as unrepresented employees.

3.2.5 Medical, Dental, and Vision Insurance. General Manager shall continue to be provided the same medical, dental, and vision insurance benefits as unrepresented employees, paid by Metropolitan for the General Manager and his qualified dependents.

3.2.6 Other Benefits. General Manager shall continue to receive all other benefits available to unrepresented employees under the MWD Administrative Code, including but not limited to disability insurance, term life insurance, wellness benefits, professional development reimbursements, cell phone allowance, and leave provisions.

IV TERMINATION

4.1 The General Manager serves at the pleasure of the Board and may be terminated, with or without cause, at any time upon receipt of written notice from the Board.

4.2 The General Manager may terminate his employment by providing at least four (4) weeks' written notice of resignation or retirement to Metropolitan.

4.3 Upon termination of employment at the end of the contract term or upon proper receipt of written notice from the Board, the General Manager may use accumulated leave balances to extend the paid service time, consistent with standard employee practices and the MWD Administrative Code.

4.4 Upon termination, the General Manager is prohibited from disclosing Metropolitan confidential and/or proprietary information unless legally required. Violation of this provision may subject the General Manager to liquidated damages of \$25,000 per instance. 4.5 Transition Assistance and Paid Administrative Leave. Upon the expiration of this Agreement on December 31, 2025, the General Manager shall be placed on paid administrative leave for a period of six (6) months, provided he remains available to assist the successor General Manager in ensuring a smooth transition. During this period, the General Manager shall continue to receive his base salary and benefits (except Wellness, Professional Development, and Car Allowance) as set forth in Section 3 of this Agreement but shall not be required to perform regular day-to-day duties. Instead, his responsibilities shall be limited to providing advice, institutional knowledge, and transition support as reasonably requested by the Board or the successor General Manager. If the General Manager fails to remain available during this transition period or declines reasonable requests for assistance, Metropolitan reserves the right to terminate the administrative leave and corresponding salary and benefits upon written notice.

4.6 Waiver of Property Interest in Continued Employment. The General Manager acknowledges and agrees that, prior to the execution of this Agreement, he may have held a property interest in continued employment with Metropolitan. By signing this Agreement, the General Manager expressly waives any such property interest and acknowledges that his employment is entirely at-will, as set forth in Section 4.1 of this Agreement. The General Manager further acknowledges that this Agreement supersedes any prior policies, practices, agreements, or understandings, whether written or implied, that may have created an expectation of continued employment beyond the term of this Agreement. The General Manager understands and agrees that he has no right to continued employment beyond the term specified herein, except as may be agreed to in a subsequent written amendment approved by the Board.

V. SEVERANCE PAY/CASH SETTLEMENT

5.1 Should the General Manager retire under the provisions of the Public Employees' Retirement Law, resign, or otherwise voluntarily terminate under this agreement, the General Manager shall be eligible for the severance pay provided to Metropolitan employees in MWD Administrative Code Section 6248, *Severance Pay*.

5.2 Except for voluntary resignation or retirement, death, or disability of 90 days or more, General Manager shall, as soon as reasonably practicable after the effective date of termination pursuant to Section 4.1 above, be placed on paid administrative leave for a period of twelve months, or, at General Manager's option, receive the lump sum equivalent to 100% percent of General Manager's annual base salary and benefits (excluding Wellness, Professional Development, Car Allowance, and Cell Phone Allowance). In the event the General Manager elects to receive a lump sum payment or is placed on paid administrative leave pending an investigation for an alleged crime involving abuse of his office or position, any such lump sum or paid leave must be fully reimbursed by the General Manager to Metropolitan if the General Manager is convicted of a crime involving abuse of his office or position.

5.3 General Manager shall not be entitled to severance pay pursuant to Section 5.2 if General Manager is terminated for a material act of dishonesty, gross carelessness in the performance of duties, gross misconduct or an unjustifiable neglect of duties. 5.4 All severance payments are subject to the limitations in Government Code sections 53260 - 53264, and sections 53243 - 53243.4.

VI. GENERAL DUTIES

6.1 The General Manager executes the policies and strategic initiatives set by the Board with a commitment to integrity, respect, transparency, fiscal and ratepayer responsibility, sustainability, and equity. In this capacity, the General Manager is responsible for managing Metropolitan's assets and water resources to ensure a reliable, sustainable, and resilient water supply for its member agencies in an environmentally and fiscally responsible manner, including incorporating the impacts of climate change and water initiatives to reduce costs and create new forms of revenue.

6.2 The General Manager's duties are also as outlined in Division VI, Chapter 4, Article 5 of the MWD Administrative Code, Sections 6410 - 6416.

VII. MISCELLANEOUS

7.1 This Agreement, together with the provisions of the MWD Administrative Code and other Metropolitan policies, contains the entire agreement between the parties. In the event of a conflict between this Agreement and the MWD Administrative Code, this Agreement shall control.

7.2 The validity, interpretation, and performance of this Agreement shall be governed by the laws of the State of California.

7.3 Any notice required under this Agreement shall be sent via Metropolitan's email system. Notices from General Manager to Metropolitan shall be sent to the Chair of the Board, while notices from Metropolitan to General Manager shall be sent to his Metropolitan email inbox.

7.4 If any provision in this Agreement is held to be invalid or unenforceable, the remainder shall remain in full force and effect.

WHEREFORE, the parties have executed this Agreement as of the date first written above.

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

By____

Adan Ortega, Jr. Chair of the Board The Metropolitan Water District of Southern California

APPROVED AS TO FORM:

By_____

Henry Torres, Jr. Assistant General Counsel The Metropolitan Water District of Southern California

By_____

Deven N. Upadhyay General Manager The Metropolitan Water District of Southern California

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THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Report

Water Resource Management Group

• Conservation Board Report March 2025

Summary

This report provides a summary of conservation activities and expenditures for January 2025

Purpose

Informational

Detailed Report

Conservation Expenditures – FY2024/25 & FY2025/26⁽¹⁾

	Paid ⁽²⁾	Committed ⁽³⁾
Regional Devices	\$2.1 M	\$1.4 M
Member Agency Administered	\$3.2 M	\$4.8 M
Turf Replacement	\$8.5 M	\$24.2 M
Advertising	\$0.1 M	\$0.9 M
Other	\$1.2 M	\$1.3 M
TOTAL	\$15.1 M	\$32.6 M

(1) The Conservation Program biennial expenditure authorization is \$98.2 million.

(2) Paid as of 7/1/2024 - 1/31/2025. Financial reporting on cash basis.

(3) Committed dollars as of February 10, 2025

Summary of Expenditures in January 2025: \$1,331,158⁽¹⁾

Lifetime Water Savings to be achieved by all rebates in January 2025: 3,573 AF FY2024/25-FY2025/26: 30,152 AF lifetime water savings

Turf Replacement Rebates:

January: 575,353 ft² replaced FY2024/25-FY2025/26: 4,033,672 ft² replaced

Trees (part of Turf Replacement Program): January: 138 trees rebated FY2024/25-FY2025/26: 1,269 units rebated

Smart Controllers: January: 302 units rebated FY2024/25-FY2025/26: 3,855 units rebated Clothes Washers: January: 545 units rebated FY2024/25-FY2025/26: 4,405 units rebated

Toilets: January: 697 units rebated FY2024/25-FY2025/26: 8,208 units rebated

Sprinkler Nozzles: January: 2,117 units rebated FY2024/25-FY2025/26: 10,118 units rebated

(1) Expenditures may include advertising and Water Savings Incentive Program activity in addition to the incentives highlighted above.



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Report

Board of Directors

• Human Resources Activities Report

Summary

This report provides a summary of the Human Resources group activities for January and February 2025.

Purpose

Informational

Detailed Report

Human Resources

HR Priorities

Partner with Metropolitan leadership to support learning, development, and adaptive workforce planning initiatives.

The Organizational Development & Training facilitated a Team Building for Weymouth's Laboratory Services Unit. Twenty-six employees were in attendance for training on Resilience Building, Stress Management, and Positivity in the Workplace. OD&T Unit were also in the Sacramento office for a Communication Skills training. In addition, 580 employees attended virtual and in-person trainings on topics ranging from E-Mail Etiquette, Excel Dashboards, Microsoft Project, OneNote, Advanced PowerPoint, Advanced SharePoint, Excel Formulas & Functions, and Cybersecurity Awareness. LinkedIn Learning, MWD's e-learning platform, was accessed for topics like HR Comp & Benefits, Windows 11 Troubleshooting, and Construction Safety.

Recruitment Unit filled 20 positions in the month of February. There are 53 recruitments that are in the final stages which includes hiring recommendations being made. Seventeen new staffing requisitions were received resulting in 167 positions being recruited for. Staff continues to work with All-Star Talent in an outreach campaign targeted towards hard-to-fill positions in the Desert, Environmental Planning, and Information Technology. This effort is aimed at making qualified candidates aware of the exciting opportunities available at Metropolitan. In addition, staff continues to make site visits which have included Jensen, Diamond Valley Lake, Lake Mathews, La Verne, and Carson Reuse Facility.

HR Core Business: Provide Excellent Human Resources Services

Objective #1: Administer all HR services with efficiency and a focus on customer service excellence, consistency, and flexibility.

The Business Support Team planned, organized, and coordinated a "Taking Care of Your Heart" wellness webinar. The live webcast was held on February 5, 2025, and hosted by Kaiser Permanente. The webinar provided employees with the opportunity to learn about heart disease and identify associated risk factors. The Mediterranean and plant-based meal plans were highlighted in relationship with keeping a healthy heart.

Employees were invited to create a realistic heart-healthy action plan, using their personal strengths to keep a heart healthy life.

HR Metrics	June 2024	February 2025	Prior Month January 2024
Headcount			
Regular Employees	1,810	1,800	1,831
Temporary Employees	52	35 1	36
Interns	2	14	1
Recurrents	17	18	15
Annuitants	23		21

	February 2025	January 2025
Number of Recruitments in Progress	167	170
(Includes Temps and Intern positions)		
Number of New Staffing Requisitions	17	29
	February 2025	January 2025
Number of Job Audit Requests in Progress	February 2025 15	January 2025 20
Number of Job Audit Requests in Progress Number of Completed/Closed Job Audits		

External Hires	FY 23/24 Totals	February 2025	FISCAL YTD
Regular Employees	105	7	67
Temporary Employees	61	5	26
Interns	3	0	3
Internal Promotions	80	8	52
Management Requested Promotions	172	20	95
Retirements/Separations (regular employees)	71	34	75
Employee-Requested Transfers	14	0	10

Last	First Name	Classification	Eff Date	Reason	Group
Arabshahi	Jalil	Prgrm Mgr- Engineering	12/31/2024	Retirement – Service	ENGINEERING SERVICES GROUP
Armitage	Nathan	O&M Tech IV	1/1/2025	Resignation	CONVEYANCE&DISTRIB UTION GROUP
Ballard	David	O&M Tech IV	12/31/2024	Retirement - Service	CONVEYANCE&DISTRIB UTION GROUP
Becker	Andrew	O&M Tech IV	1/3/2025	Retirement - Service	CONVEYANCE&DISTRIB UTION GROUP
Boucher	Barbara	Real Estate Representative II	12/31/2024	Retirement - Service	ENGINEERING SERVICES GROUP
Brok	Alec	Pr Engineer	12/28/2024	Retirement - Service	INTEGRATED OPS PLAN&SUPPT SRVC
Castro	Arturo	Pr Auditor	12/26/2024	Retirement - Service	OFFICE OF THE GENERAL AUDITOR
Chapman	David	Wtr Treatment Plant Specialist	12/27/2024	Retirement - Service	TREATMENT&WATER QUALITY GROUP
Collins	Alison	Pr Resource Specialist	1/17/2025	Resignation	BAY DELTA INITIATIVES
Durbin	Harrison	Engineer	1/9/2025	Resignation	ENGINEERING SERVICES GROUP
Dymally	Edgar	Sr Environmental Specialist	12/31/2024	Retirement - Service	TREATMENT&WATER QUALITY GROUP
Egan	Joseph	O&M Tech IV	12/31/2024	Retirement - Service	INTEGRATED OPS PLAN&SUPPT SRVC
Escalera	Gilbert	Instrumnt&Cnt rl Tech III	12/31/2024	Retirement - Service	TREATMENT&WATER QUALITY GROUP
Fandialan	Edgar	Pr Engineer	1/9/2025	Retirement - Service	WATER RESOURCE MANAGEMENT GRP
Garcia	Yolanda	Engineering Tech III	12/26/2024	Retirement - Service	INTEGRATED OPS PLAN&SUPPT SRVC
Gudino	Victor	O&M Tech IV	12/31/2024	Retirement - Service	INTEGRATED OPS PLAN&SUPPT SRVC
Guo	Yingbo	Team Mgr- Chemistry	12/28/2024	Retirement - Service	TREATMENT&WATER QUALITY GROUP

Hathaway	Douglas	Prgrm Mgr- Engineering	12/28/2024	Retirement - Service	ENGINEERING SERVICES GROUP
Hines	Steven	Pr Government& Region AffRep(C)	1/11/2025	Retirement - Service	EXTERNAL AFFAIRS
Hutcherson	Timothy	Team Manager IV	12/28/2024	Retirement - Service	TREATMENT&WATER QUALITY GROUP
Jarrad- McCray	Lucy	Team Mgr- WSO Business Mgmt	12/31/2024	Retirement - Service	INTEGRATED OPS PLAN&SUPPT SRVC
Kaufman	Carol	Pr Environmental Spec	12/31/2024	Retirement - Service	OFF OF SAFETY,SECURITY&PRO TECT
Labisi	Во	Unit Mgr- Laboratory Services	12/31/2024	Retirement - Service	TREATMENT&WATER QUALITY GROUP
Le	Nghia	Sr IT Enterprise App Analyst	12/31/2024	Retirement - Service	INFORMATION TECHNOLOGY GROUP
Lopez	Hector	Wtr Trtment Plant Operator III	12/31/2024	Retirement - Service	TREATMENT&WATER QUALITY GROUP
Muir	Robert	Section Mgr- Media Services	1/4/2025	Retirement - Service	EXTERNAL AFFAIRS
Mustoe	Gordon	Sr Engineering Technician	1/17/2025	Retirement - Service	INTEGRATED OPS PLAN&SUPPT SRVC
Robertson	Aaron	Sr IT Software Developer	12/28/2024	Retirement - Service	INFORMATION TECHNOLOGY GROUP
Roldan	Leoncio	Pr Auditor	12/31/2024	Retirement - Service	OFFICE OF THE GENERAL AUDITOR
Ryan	Thomas	Resource Specialist	12/31/2024	Retirement - Service	WATER RESOURCE MANAGEMENT GRP
Safely	Jack	Unit Mgr- Imported Supply	12/31/2024	Retirement - Service	WATER RESOURCE MANAGEMENT GRP
Shriver	Steve	Team Manager VI	12/26/2024	Retirement - Service	TREATMENT&WATER QUALITY GROUP
Smith	Mark	O&M Tech IV	12/31/2024	Retirement - Service	CONVEYANCE&DISTRIB UTION GROUP

Wheeler	Marguerite	Board	1/11/2025	Retirement -	OFFICE OF THE
		Executive		Service	GENERAL MANAGER
		Officer			



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Board Report

Office of Safety, Security, and Protection (OSSP)

• OSSP Monthly Activities for January and February 2025

Summary

This monthly report provides a summary of OSSP activities for January and February 2025 in the following key areas:

- Security and Emergency Management
 - Security and Emergency Response
 - Emergency Management Program Update
- Safety, Regulatory, and Training (SRT)
 - Health and Safety Programs
 - Environmental Programs
 - Apprenticeship Programs
 - o Safety and Technical Training Programs

Purpose

Informational

Attachments

Attachment 1: Detailed Report - OSSP Monthly Activities for January and February 2025

Key Activities Report for January and February 2025

Project Highlights

Security and Emergency Management

Security and Emergency Response

Metropolitan Security Specialists played an integral role in the emergency response efforts to the catastrophic wildfires that battered the Los Angeles service area in January, including one that came within a mile of a critical pressure control facility.

Security personnel became aware of the fire within minutes of its start and were pre-emptively deployed to the location as emergency responders and took the following protective actions:

- Assessed potential threats to Magazine Canyon structures based on wind directions/speeds (60-80 mph)
- Coordinated with Jensen OCC staff and contract security personnel for safety, PPE, communications, command, and control guidance
- Immediately issued phone notifications up the chain of command, waking key managers around midnight.
- Input critical information and initial reports into WebEOC for situational awareness
- Liaisoned with LAFD ICS command staff posted at Fire Station 18 in Granada Hills
- Provided critical on-the-ground real-time information on power outages, loss of traffic lights in the area, street closures, firefighting efforts, access control, and photo/video documentation of the fire's progress and direction
- Posted at Sepulveda PCS 24/7 to monitor the Palisades Fire threat to infrastructure and expedite access control through law enforcement barricades



January 7, 2025 photo of Hurst Fire racing west towards Magazine Canyon and Jensen WTP

Metropolitan's Security and Emergency Management Unit co-hosted a two-day California Water Security Summit at Union Station alongside the FBI and CISA. The event brought together federal, state, and local law enforcement agencies, water security associations, and member agencies to discuss emerging threats, trends, and regulatory developments in the water sector.

Key topics included:

- Current cyber threats and case studies
- Foreign malign influence and insider threats
- Physical security challenges
- Industry and fusion center panel discussions
- Threats from drones and WMDs
- Dams sector security briefings
- AWIA and PFAS regulatory updates
- The evolving water security landscape

The summit provided a critical forum for collaboration and knowledge-sharing to strengthen the security and resilience of California's water infrastructure.



Metropolitan hosts CISA, DHS, FBI, EPA, WaterISAC, and member agencies at Union Station Headquarters for 2-day Water Security Summit

Emergency Management Program Update

January Wildfire Response

Metropolitan staff spent a significant portion of January 2025 responding to multiple wildfires that erupted in Metropolitan's service areas and were fanned by "life-threatening" Santa Ana Winds. The Eaton and Palisades Fires were the most significant wildfires during this time, burning over 30,000 acres, destroying over 10,000 structures, and devastating numerous lives. An extensive number of Public Safety Power Shut-Offs (PSPS) and wind-caused power outages added to this complex and dangerous situation.



Map of Red Flag Warnings and SCE PSPS monitored circuits

Metropolitan Emergency Management Prep

Metropolitan staff started monitoring reports from the National Weather Service (NWS) and Southern California Edison (SCE) of a strong Santa Ana Wind condition in the forecast for the week of January 6. NWS increased the intensity of their warnings to a "Particularly Dangerous Situation (PDS)" on January 7, and SCE continued warning of numerous potential PSPS events in the region. Metropolitan management was advised, and emergency management staff prepared for possible field deployments.

Metropolitan Emergency Operations Center (EOC) and Incident Command Post Activations

On January 7, the Metropolitan EOC was activated to a low-level (Level III) in response to the fast-moving Palisades, Eaton, and Hurst Fires. The Hurst Fire burned close to the Jensen Water Treatment Plant, and the other two fires could have been a threat to Metropolitan employees and facilities if they continued to burn.

The EOC was elevated to a mid-level activation level (Level II) the next day due to the rapid spread of the current fires and the extreme threat of additional fires in the Metropolitan service area due to extremely dangerous fire weather.



EOC activation was virtual due to the threat to Eagle Rock Facilities

The Jensen Plant, Weymouth Plant, and Western C&D Incident Command Posts (ICPs) were also activated during this incident to coordinate field assets included in the response.

Mutual Assistance

As the Eaton Fire continued to burn in the Altadena/Pasadena area, Foothill Municipal Water District reached out to Metropolitan management to request support for a number of their mutual agencies which had sustained significant damage. Metropolitan provided immediate fuel and generator support to these agencies and continued to work with them to support future needs. Metropolitan also supported them as they worked with the Los Angeles County EOC, Cal WARN (Water/Wastewater Response Network), Public Water Agency Group (PWAP), and the California Utilities Emergency Association (CUEA).



Map of the impacted mutual agencies associated with Foothill Municipal Water District

Agency Representatives Sent to the Los Angeles County EOC and Fire Command Posts

Metropolitan sent agency representatives to the Los Angeles County EOC, as well as the Eaton Fire Command Post (Rose Bowl) and Palisades Fire Command Post (Zuma Beach) to provide a direct line of communications with County emergency operations and first responders in the field.

Agency reps maintained a regular presence at these sites for over two weeks and provided a valuable connection between Metropolitan, impacted agencies, and first responders.



Los Angeles County Emergency Operations Center (CEOC) <u>Metropolitan Direct Impacts</u>



Metropolitan staff in command trailer at the Eaton Fire Command Post

Metropolitan operations were not impacted significantly during these fires, but several precautionary actions were taken. Staff were evacuated from the Eagle Rock Operations Control Center (OCC), Security Watch Center (SWC), and Emergency Operations Center (EOC) due to the rapid spread of the Eaton Fire. OCC, SWC and EOC staff all worked from remote locations during the fire emergency.

When the Palisades Fire threatened the Sepulveda Pressure Control Structure (PCS), staff were deployed to monitor its operations, clear nearby brush, and water-down hillsides. A Metropolitan agency rep was also dispatched to the Palisades Fire Command Post at Zuma Beach to facilitate direct communications with first responders.

Multiple "Met-Alert" messages were sent to employees' phones and emails referring to memos from the General Manager regarding safety and fire information.

Metropolitan Post-Response Actions

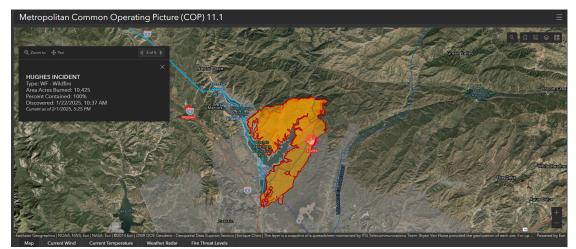
The Metropolitan EOC officially de-activated on January 22 and transitioned mutual assistance operations to the newly formed *Eaton Fire Water Utility Mutual Assistance* group, which included participation by Foothill MWD and the impacted mutual agencies in the Altadena/Pasadena area.



Representatives from impacted mutual agencies meeting at Foothill Municipal Water District facility

All Metropolitan Agency Reps were released from the Los Angeles County EOC and Eaton and Palisade Fire Command Posts.

Finally, on January 23, Metropolitan staff monitored the Hughes Fire near Lake Castaic, which threatened the Foothill Pressure Control Structure (PCS). A Metropolitan agency rep was deployed to the Fire Command Post and remained in contact with the Fire Department until the fire threat had subsided.



Hughes Fire near Lake Castaic threatened Metropolitan Foothill Pressure Control Structure for a time

Staff will conduct after action reviews to gather lessons-learned that highlight successes and identify areas of improvement for future disaster responses.

Project Highlights

Safety, Regulatory, and Training

SRT Health and Safety Programs

Safety Talks

Staff prepared six new Safety Talks on various topics, including dump truck operations, energized or downed powerline safety, wildfire smoke prevention, and situational awareness while supporting impacted fire areas.



New Safety Talks

Lead Management Program

In response to Cal/OSHA's adoption of new Lead in Construction Standard amendments effective January 1, 2025, staff met with affected Metropolitan coatings teams to review the recent regulatory updates to Metropolitan's Lead Management Program. The updates included lower permissible exposure limits, increased medical surveillance, signage, and other lead work safety procedures.

SRT Environmental Programs

Hazardous Materials

Staff completed the annual hazardous materials business plan submittals for 5 facilities and are preparing 19 additional facility business plan submittals, due the first quarter of 2025 to the respective Certified Unified Program Agencies (CUPAs). Additionally, staff completed a hazardous waste pump out of caustic soda from Mills' chlorine scrubber system to facilitate necessary fiberglass tank repairs.

Waste Water and Tanks

Staff completed 18 compliance reports for various facilities throughout the District and submitted a flood control permit for discharging of standing water on the Garvey Reservoir cover. Staff submitted an unplanned dewatering notification for the unplanned release at Weymouth and provided the advance notification for the AMP line shutdown.

Air Quality

Staff requested SCAQMD to extend the Permit to Construct/Operate of the MSU Plasma Arc Cutter and received verbal confirmation the permit will be extended. Staff completed the notification requirements for the Pleasants Peak emergency generator engine once it reached 200 hours of operation. The SCAQMD Rule 118.1 allows critical facilities to exclude operating hours that occurred before and during a Public Safety Power Shutoff (PSPS) event if the operator notifies SCAQMD within 48 hours of exceeding the annual limit.

SRT Apprenticeship Programs

SRT Apprenticeship Programs prepare apprentices to become certified mechanics and electricians responsible for maintaining Metropolitan's water treatment and distribution systems. Apprenticeship began 2025 with recruitment efforts to hire apprentices for the Desert Region. The job announcement posted in early January. The announcement provided information about the program and details for application and testing, including a candidate preparation manual. Applications opened in February. Testing and interviews are scheduled March through May. The recruitment would hire four desert apprentices in 2025 and establish a multi-year eligibility list for future hiring.

	1						2024-2
• Gene Camp	Poste	ed Date 4 days ago	Application Filing Period	d January 10, 2025 - February 24, 2025 @ 4:30 p.m.	PST #of Openings 4	Min USD \$22.54/Hr.	
Work Schedule	Other	Group OFF OF SAF	FETY, SECURITY&PROTECT	Section SAFETY, REGULATORY&TRAINING SEC	Unit APPRENTICE & TEC	H TRAIN UNIT	
Bargaining Unit	Name /	Code 02 - AFSCME					
APPL		hen the applicat	tion filing period beg	IS TIME (DO NOT SUBMIT AN APPLIC gins, a new posting (#2025-2927) th	t you can apply to		9).
				cation filing period (accepting applica	tions) dates.		
		G PERIOD (ACCEF	PTING APPLICATIONS)		tions) dates.		
Internal appli External appli	cation	G PERIOD (ACCEF filing period begir	PTING APPLICATIONS) ns: Tuesday, February 4)		DT), or until 200 appl	ications
<u>Internal appli</u>	cation f	G PERIOD (ACCEF filing period begir period begins: Tu	PTING APPLICATIONS) ns: Tuesday, February 4) I, 2025, Internal Applicants Only		DT), or until 200 appl	ications
Internal appli External appli are received. • 1 ELECT	cation f	G PERIOD (ACCEF filing period begir period begins: Tu	PTING APPLICATIONS) ns: Tuesday, February 4) I, 2025, Internal Applicants Only		DT), or until 200 appl	ications
Internal appli External appli are received. • 1 ELECT • 3 MECH.	cation f cation RICAL I ANICAL	G PERIOD (ACCEF filing period begin period begins: Tu period begin	PTING APPLICATIONS) ns: Tuesday, February 4 esday, February 25, 202) I, 2025, Internal Applicants Only	11, 2025 (4:30 p.m. P		ication
Internal appli External appli are received. • 1 ELECT • 3 MECH.	cation f cation RICAL I ANICAL	G PERIOD (ACCEF filing period begin period begins: Tu period begin	PTING APPLICATIONS) ns: Tuesday, February 4 esday, February 25, 202) , 2025, Internal Applicants Only 25, (8:00 a.m. PST) through Tuesday, Marcl	11, 2025 (4:30 p.m. P		ication

Desert Pre-Apprentice Job Announcement

SRT Safety and Technical Training Programs

The Safety and Technical Training staff collaborated with Fleet Services to develop an online electric vehicle (EV) training module. This short, multimedia training will cover basic vehicle operation, charging procedures, and tips for planning trips with an EV.

With the arrival of the new year, staff began delivering advanced System Operating Orders Manual (SOOM) training, featuring new exercises and activities. This year, SOOM training will focus on the safe isolation of work areas and the clearance process for the Conveyance and Distribution systems. The field activities will focus on the Water Treatment Plant and its associated switchyards. Staff also developed exercises and online testing for the Desert SOOM High Voltage Switching program.

The Safety and Technical Training staff collaborated with Health & Safety Programs to incorporate the abovementioned updates into the Lead training programs. While SRT published a new safety talk, lead training offerings now include updates from 2025, such as the new lower permissible exposure limits, trigger task levels, hygiene practices, and medical testing frequencies.