

# The Metropolitan Water District of Southern California

# Agenda

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.

## LTRPPBM Committee

M. Petersen, Chair  
K. Seckel, Vice Chair  
D. Alvarez  
J. D. Armstrong  
D. Erdman  
S. Faessel  
L. Fong-Sakai  
M. Gold  
J. McMillan  
T. Quinn  
N. Sutley

## **Subcommittee on Long-Term Regional Planning Processes and Business Modeling**

Meeting with Board of Directors \*

**November 20, 2024**

**11:30 a.m.**

**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: 862 4397 5848.**

**Members of the public may present their comments to the Board on matters within their jurisdiction as listed on the agenda via in-person or teleconference. To participate via teleconference 1-833-548-0276 and enter meeting ID: 815 2066 4276 or to join by computer [click here](#).**

**Wednesday, November 20,  
2024**

**09:00 a.m. AUDIT  
10:00 a.m. EXEC  
11:00 a.m. Break  
11:30 a.m. LTRPPBM**

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

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\* The Metropolitan Water District's meeting of this Committee is noticed as a joint committee meeting with the Board of Directors for the purpose of compliance with the Brown Act. Members of the Board who are not assigned to this Committee may participate as members of the Board, whether or not a quorum of the Board is present. In order to preserve the function of the committee as advisory to the Board, members of the Board who are not assigned to this Committee will not vote on matters before this Committee.

- 1. Opportunity for members of the public to address the committee on matters within the committee's jurisdiction (As required by Gov. Code Section 54954.3(a))**

**\*\* CONSENT CALENDAR ITEMS -- ACTION \*\***

## 2. CONSENT CALENDAR OTHER ITEMS - ACTION

- A. Approval of the Minutes of the Subcommittee on Long-Term Regional Planning Processes and Business Modeling Meeting for September 25, 2024 (Copies have been submitted to each Director, Any additions, corrections, or omissions) [21-3995](#)

**Attachments:** [11202024 LTRPPBM 2A \(09252024\) Minutes](#)

**\*\* END OF CONSENT CALENDAR ITEMS\*\***

## 3. SUBCOMMITTEE ITEMS - CAMP4W TASK FORCE

- a. Member Agency Managers Task Force Members [21-3994](#)

Kristine McCaffrey, Calleguas Municipal Water District  
Chisom Obegolu, P. E., City of Glendale  
Cesar Barrera, City of Santa Ana  
Joe Mouawad, Eastern Municipal Water District  
Nina Jazmadarian, Foothill Municipal Water District  
Shivaji Deshmukh, Inland Empire Utilities Agency  
Dave Pedersen, Las Virgenes Municipal Water District  
Anatole Falagan, Long Beach Water Department  
Anselmo Collins, Los Angeles Department of Water and Power  
Harvey De La Torre, Municipal Water District of Orange County  
Stacie Takeguchi, Pasadena Water and Power  
Dan Denham, San Diego County Water Authority  
Tom Love, Upper San Gabriel Valley Municipal Water District  
Craig Miller, Western Municipal Water District

- b. Climate Decision-Making Framework Project Assessments [21-3996](#)

**Attachments:** [11202024 LTRPPBM 3b C-L](#)  
[11202024 LTRPPBM 3b Presentation](#)

- c. Member Agency Update on Business Model Refinement [21-3997](#)

**Attachments:** [11202024 LTRPPBM 3c Presentation](#)

## 4. FOLLOW-UP ITEMS

NONE

## 5. FUTURE AGENDA ITEMS

## 6. ADJOURNMENT

**NOTE:** This committee reviews items and makes a recommendation for final action to the full Board of Directors. Final action will be taken by the Board of Directors. Committee agendas may be obtained on Metropolitan's Web site <https://mwdh2o.legistar.com/Calendar.aspx>. This committee will not take any final action that is binding on the Board, even when a quorum of the Board is present.

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.

**THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA**

**MINUTES**

**SUBCOMMITTEE ON LONG-TERM REGIONAL PLANNING PROCESSES AND  
BUSINESS MODELING**

**September 25, 2024**

Vice Chair Seckel called the meeting to order at 10:01 a.m.

Members present: Alvarez, Erdman, Fong-Sakai (teleconference posted location), McMillan, Petersen (entered after rollcall), Quinn, Seckel, and Sutley (entered after rollcall).

Members absent: Armstrong, Faessel, and Gold.

Other Board Members present: Bryant, Dennstedt, Goldberg, Miller, and Smith.

Committee Staff present: Crosson, Dunbar, Mortada and Quilizapa.

**1. OPPORTUNITY FOR MEMBERS OF THE PUBLIC TO ADDRESS THE  
COMMITTEE ON MATTERS WITHIN THE COMMITTEE'S JURISDICTION**

None

**CONSENT CALENDAR ITEMS – ACTION**

**2. CONSENT CALENDAR OTHER ITEMS – ACTION**

- A. Approval of the Minutes of the Subcommittee on Long-Term Regional Planning Processes and Business Modeling for August 28, 2024.

Director Quinn made a motion to approve item 2A, seconded by Director Alvarez.

The vote was:

Ayes: Alvarez, Erdman, Fong-Sakai, McMillan, Petersen, Quinn, Seckel, and  
Sutley

Noes: None

Abstentions: None

Absent: Armstrong, Faessel, and Gold

The motion for Item 2A passed by a vote of 8 ayes, 0 noes, 0 abstentions, and 3 absent.

**END OF CONSENT CALENDAR ITEMS**



### **3. SUBCOMMITTEE ITEMS - CAMP4W TASK FORCE**

- a. Subject: Member Agency Managers Task Force Members

Cesar Barrera, City of Santa Ana  
Nina Jazmadarian, Foothill Municipal Water District  
Shivaji Deshmukh, Inland Empire Utilities Agency  
Dave Pedersen, Las Virgenes Municipal Water District  
Anatole Falagan, Long Beach Water Department  
Anselmo Collins, Los Angeles Department of Water and Power  
Harvey De La Torre, Municipal Water District of Orange County  
Dan Denham, San Diego County Water Authority  
Kristine McCaffrey, Calleguas Municipal Water District  
Tom Love, Upper San Gabriel Valley Municipal Water District  
Craig Miller, Western Municipal Water District  
Joe Mouawad, Eastern Municipal Water District  
Stacie Takeguchi, Pasadena Water and Power

Presented by: No presentation was given.

Task Force Members present: Barrera, Collins, De La Torre, Deshmukh, Jazmadarian, Love, McCaffrey, Miller, Mouawad, Pedersen, and Takeguchi.

- b. Subject: Evaluative Criteria and Climate Decision-Making Framework

Presented by: Liz Crosson, Chief Sustainability, Resilience, and Innovation Officer

Ms. Crosson led the discussion regarding Item 3b, Evaluative Criteria and Climate Decision-Making Framework.

The following Directors and Member Agency Managers asked questions and provided comments:

1. Mouawad
2. Collins
3. Seckel
4. Takeguchi
5. Smith
6. Dennstedt
7. Sutley
8. Pedersen
9. Petersen
10. Miller
11. Chisolm
12. Shivaji
13. Quinn

Staff responded to the Directors' and Member Agency Manager's comments and questions.

- c.     Subject:             Member Agency Update on Business Model Refinement
- Presented by:     Dave Pedersen, Member Agency Manager - Las Virgenes Municipal  
                                  Water District

Mr. Pedersen led the discussion regarding Item 3c, Member Agency Update on Business Model Refinement.

**4.     FOLLOW-UP ITEMS**

None

**5.     FUTURE AGENDA ITEMS**

None

The next meeting will be held on November 20, 2024.

The meeting adjourned at 12:25 p.m.

Karl Seckel  
Vice Chair



## ***Subcommittee on Long-Term Regional Planning Processes and Business Modeling***

11/20/2024 Subcommittee Meeting

3b

### **Subject**

Climate Decision-Making Framework Project Assessments

### **Executive Summary**

In February 2023, the Board directed staff to integrate water resources, climate, and financial planning into a Climate Adaptation Master Plan for Water (CAMP4W) and in October 2023, chartered a Joint Task Force of Board Members and Member Agency Managers to facilitate the development of CAMP4W in a timely and transparent process. CAMP4W includes: (1) Climate and Growth Scenarios, (2) Time-Bound Targets, (3) A Framework for Climate Decision-Making and Reporting, (4) Policies, Initiatives, and Partnerships, and (5) Business Models and Funding Strategies. CAMP4W will increase Metropolitan's understanding of the climate risks to water supplies, infrastructure, operations, workforce, and business model. CAMP4W will also provide decision-making tools and long-term planning guidance for adapting to climate change in order to strengthen Metropolitan's ability to fulfill its mission.

Today's Task Force meeting is focused on the third component of the Task Force Charter: the Climate Decision-Making and Reporting Framework, which includes Evaluative Criteria that align Metropolitan's investments with the values and priorities of the Board while complementing Member Agencies' individual plans and investments. Evaluative Criteria are one component of the decision-making process, which also includes resource and policy-based Time-Bound Targets and Signposts for tracking real-world conditions over time. Evaluative Criteria development history can be found in [Working Memorandum #2](#), which presents the Board-developed themes and priorities, and in [Working Memorandum #5](#), which details the process from which the Themes were distilled into discrete Evaluative Criteria categories. Working Memorandum #9 (**Attachment 1**), updated with input from the September Task Force Meeting and Member Agency comments (**Attachment 2**), lays out the proposed methodology for using the Evaluative Criteria to comprehensively assess projects, programs, and portfolios in the CAMP4W process.

Today, we will discuss four test CAMP4W assessments (**Attachment 3**) of existing or hypothetical projects and programs for the purpose of testing out the Evaluative Criteria and assessment methodology. These examples are not intended to provide decision-making recommendations at this time. Instead, this exercise has provided staff an opportunity to simulate the evaluation process and share insights and initial assessments with the Task Force.

Working Memorandum #7 is still under development based on substantial comments received and internal Metropolitan discussions. The original scope has expanded beyond a general discussion of the integration of climate adaptation into planning at Metropolitan. The revised memorandum will more specifically describe the methodology of comprehensively integrating climate adaptation while also linking project and program evaluation across the agency. These memoranda, along with the [CAMP4W Year One Progress Report](#), document the work completed by the Task Force to date.

### **Fiscal Impact**

Not applicable

## **Applicable Policy**

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By Minute Item 52776, dated April 12, 2022, the Board adopted the 2020 Integrated Water Resources Plan Needs Assessment.

By Minute Item 52946, dated August 15, 2022, the Board adopted a resolution affirming Metropolitan's call to action and commitment to regional reliability for all member agencies.

By Minute Item 53381, dated September 12, 2023, the Board approved the use of Representative Concentration Pathway (RCP) 8.5 for planning purposes in the Climate Adaptation Master Plan for Water.

By Minute Item 53630, dated May 14, 2024, the Board concurred with the CAMP4W: Draft Year One Progress Report and Next Steps, with the understanding that staff would provide the Board updated data and other information before consideration and approval of any CAMP4W projects.

## **Related Board Action/Future Action**

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The methodology for using the Evaluative Criteria for projects, programs, and portfolios will be included in the Draft Climate Adaptation Master Plan, planned for Board review in early 2025.

## **Details and Background**

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### **Background**

Beginning in the spring of 2023, the Board considered forty-four themes, which encapsulate the Board's priorities for climate adaptation planning in five overarching categories: Reliability, Resilience, Equity, Affordability and Financial Sustainability. During the November 21, 2023, and December 19, 2023, Joint Task Force meetings, staff presented an overview of the progression from these forty-four themes to ten Draft Evaluative Criteria and eventually the six which were refined by the Task Force for inclusion in the CAMP4W Year One Progress Report.

In early August 2024, the Member Agency Managers were presented with an initial methodology for scoring projects and programs. The initial methodology was purely quantitative and proposed a set of metrics to provide numeric values for each evaluative criteria totaling a composite score for each project or program. The initial methodology also included weighting factors based on previous discussions and the CAMP4W Year One Progress Report. This approach was intended to provide a transparent, data-driven, and standardized method of evaluation. However, this also resulted in a complex scoring methodology that raised concerns with the Task Force and Member Agencies. Based on feedback from Member Agency Managers and the Task Force, staff refined the methodology to a comprehensive assessment approach that blends quantitative and qualitative measures. This comprehensive assessment approach was presented to the Task Force at the September Task Force along with one example project assessment.

Since the September Task Force meeting, Metropolitan staff further refined the set of considerations and attributes under each of the six evaluative criteria (see Attachment 1 to Working Memorandum #9, CAMP4W Comprehensive Assessment Form). Staff has also developed additional guidance and a set of definitions for conducting CAMP4W assessments (see Attachment 2 to Working Memorandum #9, CAMP4W Comprehensive Assessment Guidance Document).

### **Example Project and Program Assessments**

To test the comprehensive assessment form and approach, staff evaluated three projects and one program using the set of considerations provided on the CAMP4W Comprehensive Assessment form. The purpose of this exercise is to test the assessment approach and identify any needed adjustments. These are not considered full assessments, nor are they intended to inform decision-making at this time. Instead, this exercise has provided staff an opportunity to simulate the evaluation process and share insights and initial assessments with the Task Force.

To test the methodology, staff compiled information on a diverse set of projects in various stages of development. The attached test assessments are also being discussed at a Member Agency meeting on November 12 and are therefore subject to further refinement. A brief description of each example is below:

### **1) DVL – Rialto Delivery**

This project allows the delivery of available Colorado River Aqueduct supply, Diamond Valley Lake storage, and potential purified water to the eastern State Water Project Dependent Area, which helps achieve the near-term time-bound target of equitable supply reliability. This project was chosen as a test case since it is an important element of the Drought Mitigation Portfolio to address equitable supply reliability and as a conveyance project already in the implementation phase. Overall, the assessment of this project was fairly straightforward on Reliability, Resilience, Financial Sustainability and Affordability, and Adaptability and Flexibility. It was more challenging to identify direct equity or environmental co-benefits, although it does serve an area with 45 percent of communities designated as disadvantaged and will provide local workforce benefits under Metropolitan's Project Labor Agreement.

### **2) Central Valley Surface Reservoir**

This hypothetical project would provide a 300 TAF reservoir north of the State Water Project bifurcation to capture surplus supply in wet years to be delivered in dry years. It has a pumped storage hydropower potential with a high-low reservoir arrangement. The example assessment demonstrates significant benefits for reliability and resilience and moderate benefits for equity and environmental co-benefits. Modeling shows the project's effectiveness depends on a reliable State Water Project supply. Detailed costs are not yet assessed for this hypothetical.

### **3) Turf Replacement Program**

This test assessment examines Metropolitan's current Turf Replacement Program elements assuming a \$593 million investment through 2045 resulting in almost 55,000-acre feet of savings. This program assumes \$127 million in grants (currently awarded), but also has the potential for more. While the implementation of this program alone demonstrates a limited impact on reducing the frequency of shortages under extreme climate conditions, the program itself is both resilient to and provides resilience benefits under changing climate conditions. It also provides significant environmental co-benefits, including a reduction in greenhouse gas emissions under Metropolitan's Climate Action Plan. The program is scalable depending on conditions, increases its value with Member Agency contribution, and has proven successful in obtaining external funding and partnership support.

### **4) Battery Energy Storage System at Weymouth Treatment Plant**

This project is in implementation and includes a 1 MW Battery Energy Storage System at Weymouth. Because the project does not provide a direct improvement to water supply reliability, the team decided to forego evaluation under the Reliability criterion in this test assessment. The project does provide significant resilience benefits as well as flexibility and environmental co-benefits. Once built, it will enhance the efficiency of Metropolitan's long-term power use at the Weymouth Plant, providing a hedge against the volatile energy market. The team did determine that a more resilient power operation will indirectly improve the reliability of the plant's treatment operation.

## **Brief Descriptions of Attachments for Today's Discussion**

### ***Attachment 1, Working Memorandum #9***

This memorandum summarizes efforts to refine the comprehensive assessment methodology. It also includes the revised CAMP4W Assessment Form and a new Guidance Document to help guide Metropolitan staff through the assessment process. The CAMP4W Assessment Form has been refined since the discussion at the September Task Force. Changes were made to the questions under each criterion to align with feedback from the Task Force, as well as Metropolitan staff.

***Attachment 2, Member Agency Comments on Working Memorandums #7 and #9***

Staff requested input from Member Agencies on Draft Working Memorandums #7 and #9 shared in advance of the September CAMP4W Task Force. Comments were incorporated into the final versions of these Memoranda, where appropriate, and the comments are attached here. Letters were received from four Member Agencies.

***Attachment 3, Test CAMP4W Assessments***

Four test assessments, as described above.

**Additional Documents Under Development*****Working Memorandum #7***

This memorandum summarizes the process for integrating climate change considerations into Metropolitan's existing processes and the role of CAMP4W in project and program development and evaluation moving forward. It is being revised based on Task Force and Member Agency comments.

***Working Memorandum #8***

This memorandum provides a refined set of Signposts that will be tracked through the CAMP4W Annual Report as well as an update on Time-Bound Targets. The memo also describes the purpose and utilization of Signposts in the CAMP4W process. The draft will be shared in the coming weeks for Member Agency comment.

***Working Memorandum #10***

This will be the last CAMP4W Working Memorandum in the development of the Draft Master Plan. Focused on Policies, Initiatives and Partnerships, Working Memorandum #10 will include the five overarching Climate Adaptation Policy Statements (as presented in One Water & Stewardship Committee) aimed to provide direction and guidance on implementation efforts on Reliability, Resilience, Financial Sustainability, Affordability and Equity. Staff expects to distribute the draft of Working Memorandum #10 in late December for discussion at the January CAMP4W Task Force.

***CAMP4W First Annual Report***

This annual report will include three components: (1) Signpost Data and Information; (2) Time-Bound Targets Progress and Updates; and (3) Implementation Overview. Staff expects to distribute the first draft of the Annual Report in late December for discussion at the January CAMP4W Task Force.

***Climate Adaptation Master Plan for Water***

The Draft Master Plan will be distributed in early 2025 for Board review and ultimately approval. Components include those identified in the CAMP4W Task Force Charter: (1) Climate and Growth Scenarios, (2) Time-Bound Targets, (3) A Framework for Climate Decision-Making and Reporting, (4) Guidance on Policies, Initiatives, and Partnerships, and (5) Progress on Business Model Refinement and Funding Strategies.

**Timing and Urgency**

All discussions and documents are leading up to distributing a Draft Master Plan with the Board in early 2025.

***Project Milestones******CAMP4W Upcoming Milestones:***

November 20, 2024: CAMP4W Task Force review of Example Assessments / Testing of Criteria

December 2024: (No Task Force) Distribute DRAFT Annual CAMP4W Report, including Signposts, Time-Bound Targets for Review and Comment

January 22, 2025: CAMP4W Task Force: Discuss Draft Annual Report and Climate Adaptation Policies

February 26, 2025: CAMP4W Task Force: Finalize Annual Report and Seek Board Input on Draft Master Plan

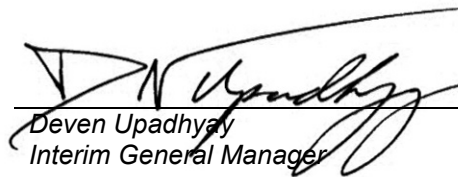
March 26, 2025: CAMP4W Task Force: Seek Board Approval of Climate Adaptation Master Plan



Elizabeth Crosson  
Chief Sustainability, Resilience and  
Innovation Officer

11/12/2024

*Date*



Deven Upadhyay  
Interim General Manager

11/12/2024

*Date*

**Attachment 1 – Working Memorandum #9**

**Attachment 2 – Member Agency Comments on Working Memorandums #7 and #9**

**Attachment 3 – Test CAMP4W Assessments**

Ref# sri12700884

# Climate Adaptation Master Plan for Water (CAMP4W)

## WORKING MEMORANDUM 9

### PROJECT, PROGRAM AND PORTFOLIO ASSESSMENT

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November 2024

## 1 Introduction

In February 2023, the Board directed staff to integrate water resources, climate, and financial planning into a Climate Adaptation Master Plan for Water (CAMP4W). Based on prior direction from the Board, CAMP4W will include (1) Climate and Growth Scenarios, (2) Time-Bound Targets, (3) A Framework for Climate Decision-Making and Reporting, (4) Guidance on Policies, Initiatives, and Partnerships, and (5) Business Models and Funding Strategies. By presenting information on the climate risks to water supplies, infrastructure, operations, workforce, and business model, CAMP4W will provide the Board with decision-making tools and long-term planning guidance for adapting to climate change, in order to strengthen Metropolitan's ability to fulfill its mission.

To facilitate the development of the CAMP4W in a timely and transparent manner, in October 2023, the Board chartered a Joint Task Force. The Task Force is made up of Board members and Member Agency managers, and in May 2024, the Task Force presented the CAMP4W Year One Progress Report. The Report documented progress since February 2023 and set up the next steps for 2024, including a discussion of Metropolitan's business model and funding strategies, policy recommendations, partnership opportunities, and the adaptive management approach. The Board considered and concurred with the Report in May 2024. The refinement and development of the remaining CAMP4W components, inclusive of the Climate Decision-Making Framework, will continue into early 2025.

The Framework for Climate Decision-Making and Reporting includes the development of Evaluative Criteria to support decisions that align Metropolitan's investments with the values and priorities of the Board while complementing Member Agencies' individual plans and investments. Evaluative Criteria are one component of the decision-making process, which includes resource and policy-based Time-Bound Targets and Signposts for tracking real-world conditions over time.

Evaluative Criteria development history can be found in [Working Memorandum #2](#), which presents the Board's priority areas through the five Themes: Reliability, Resilience, Financial Sustainability, Affordability, and Equity. [Working Memorandum #5](#) details the process from which the Themes were distilled into discrete Evaluative Criteria categories. These memoranda, along with the [CAMP4W Year One Progress Report](#), formed the foundation for the work completed by the Task Force to date.

This Working Memorandum #9 presents the proposed methodology for using the Evaluative Criteria to comprehensively assess projects, programs, and portfolios in the CAMP4W process. Attached is the



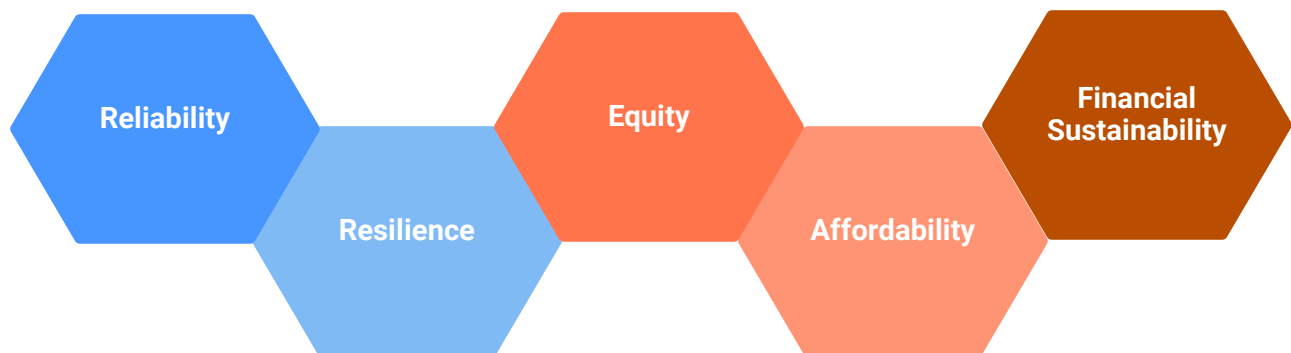
updated CAMP4W Comprehensive Assessment Form (Attachment 1) as well as a Guidance Document (Attachment 2) for conducting the Assessment.

## 2 Summary of Evaluative Criteria Evolution

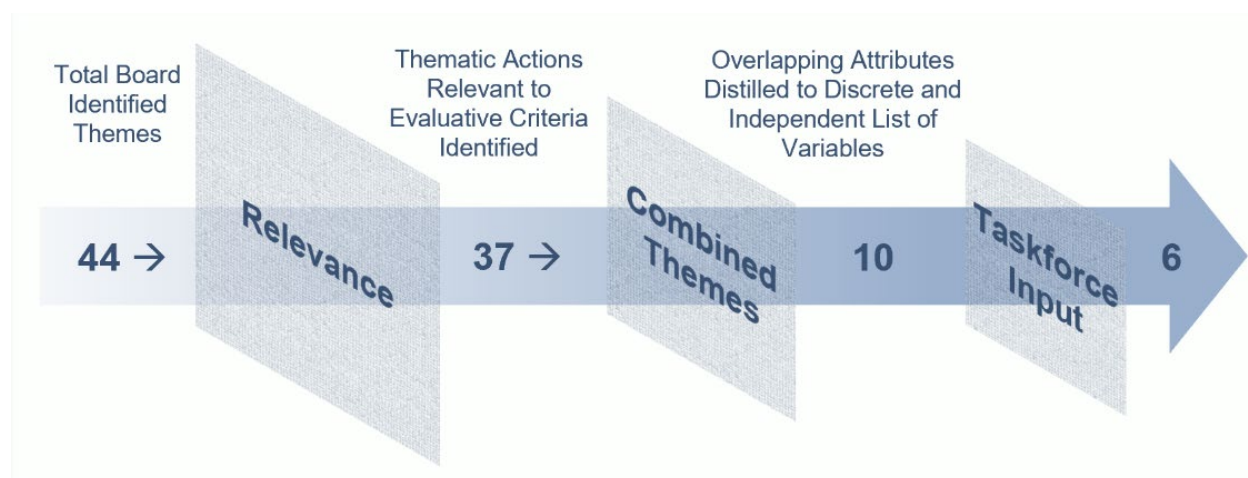
Beginning in the spring of 2023, the Board considered forty-four Themes, which encapsulate the Board's priorities within the context of the CAMP4W process and the five Board priorities and values (**Figure 1**). During the November 21, 2023, and December 19, 2023, Joint Task Force meetings, staff presented an overview of the progression from these forty-four themes to ten Draft Evaluative Criteria and eventually the six which were refined by the Task Force for inclusion in the CAMP4W Year One Progress Report (**Figure 2**).

Evaluative Criteria were developed with the intent that they would provide a uniform methodology for project, program, and portfolio evaluation and support the Climate Decision-Making process. This process allows for the Board's preferences (as expressed in the Themes and Evaluative Criteria) to be embedded into the project selection process. This process produces information that will allow for projects to be identified and the Board to decide which projects will provide benefits that align with the Evaluative Criteria and therefore should be pursued.

Based on comments received from the Task Force and Member Agencies, draft Evaluative Criteria were revised to reduce the total number of criteria from ten to six, as shown in **Figures 1 and 2**, with the final criteria presenting in Figure 3.



**Figure 1. Board Priorities and Values Defined through the CAMP4W Process**



**Figure 2. Evaluative Criteria Development**



**Figure 3. Final Six Evaluative Criteria (Presented in CAMP4W Year One Progress Report)**

### 3 Methodology for Project, Program, and Portfolio Evaluation

Based on the six Evaluation Criteria, the CAMP4W Task Force, Member Agency Managers and Metropolitan Staff have spent the last several months refining and testing the Comprehensive Assessment methodology.

#### 3.1 Initial Draft Methodology

In early August 2024, the Member Agency Managers were presented with a methodology for scoring projects and programs. This methodology was purely quantitative and proposed a set of metrics to provide numeric values for each evaluative criteria totaling a composite score for each project or program. This methodology also included weighting factors based on previous discussions and the CAMP4W Year One Progress Report. The Task Force, Member Agency Managers, and interested parties provided feedback on this methodology, which is summarized below.

## Overview of Task Force, Member Agency Managers, and Interested Parties Feedback on Initial Draft Methodology

- The initial scoring metrics were overly complicated and difficult to implement
- One single composite score could mask unique attributes of each project or program
- The initial scoring metrics were too narrow and did not adequately represent the breadth of potential attributes
- Some quantitative metrics must be included in a Comprehensive Assessment and information provided should detail the degree to which a project provides benefits (not just yes/no determinations)
- Consider whether there should be a minimum threshold for criteria categories
- Include Time-Bound Targets in Comprehensive Assessment
- Ensure application to projects under development or complementary to primary projects
- Consider weighting at the staff level and including a sensitivity analysis
- Reliability should remain paramount and financial considerations more pronounced
- Assessment process should prioritize water supply and storage exchange opportunities among Member Agencies, specifically with existing infrastructure

### 3.2 Shift from Initial Draft Methodology to a Comprehensive Assessment Approach

Based on the feedback from the Task Force, Member Agency Managers, and interested parties, the Metropolitan staff revised the methodology. It continues to allow for comprehensive assessments based on many of the quantitative metrics initially presented and includes qualitative descriptions of project or program attributes. (**Figure 4**).

Evaluative Criteria	<p>Each <b>Project</b> or <b>Program</b> would be considered through a robust narrative description of how project attributes achieve each objective</p> <p>Descriptions could include:</p> <ul style="list-style-type: none"> <li>✓ Quantitative metrics</li> <li>✓ Qualitative information</li> <li>✓ Gaps in information available</li> </ul>
Reliability	
Resilience	
Adaptability & Flexibility	
Affordability	
Environmental Co-benefits	
Equity	

**Figure 4. Quantitative and Qualitative Metrics by Evaluative Criteria Category**

To facilitate the inclusion of quantitative and qualitative assessments and ensure feedback received from the Task Force, Member Agency Managers, and interested parties were incorporated, a series of considerations for each of the six criteria originally included in Working Memorandum #5 were reviewed and updated (see **Attachment 1, CAMP4W Comprehensive Assessment**). These considerations are intended to guide the evaluation process and provide a uniform set of data points for Board deliberations on proposed projects, programs, and portfolios. While the questions help standardize evaluations, the assessment format allows for the consideration of attributes that may extend beyond the questions. An evaluation committee of Metropolitan staff from across the different disciplines (water resources, engineering, operations, sustainability, finance) will conduct and provide the assessments. A Guidance Document has been developed to guide the Evaluation Committee through the Comprehensive Assessment process (see **Attachment 2, CAMP4W Comprehensive Assessment Guidance Document**). Staff will engage Member Agency Managers throughout the review and assessment effort.

The updated CAMP4W Comprehensive Assessment Form is attached. Key features include:

- 1) A summary page of each project, program, or portfolio with high-level assessment information.
- 2) Space to narratively describe quantitative and qualitative attributes, benefits, and challenges of each project, program, and portfolio.
- 3) Comprehensive and transparent descriptions in all six criteria categories.
- 4) Assessment by evaluative criteria category through a color ranking system.
- 5) Alignment of Time-Bound Target progress with project, program, and portfolio assessments.
- 6) Flexibility to assess companion projects and/or portfolios together or individually.

### 3.3 Additional Responses to Member Agency Feedback

Since the September 2024 Task Force meeting, several Member Agencies have submitted additional comments on this Working Memorandum and the Comprehensive Assessment form and methodology. A summary of some of the most significant comments and brief responses are below.

<b>Comment</b>	<b>Response</b>
Staff should include weighting of the criteria to emphasize the importance of Reliability, Resilience, and Financial Sustainability.	Staff has included a section on the summary page to emphasize the Reliability and Cost elements of a project. However, with the blended approach of quantitative and qualitative evaluation measures, the level of importance of each attribute will be under the discretion of the decision-maker. The purpose of the Comprehensive Assessment form is to provide comprehensive, transparent, data-driven and comparable information.
Suggest adding a quantitative scoring system or assessment for how each project impacts the Resource-Based Targets of Core Supply, Storage and Flex Supply.	There is a designated space to describe how a proposed project or program impacts the Time-Bound targets. Staff is also developing a dashboard to digitally display that impact.
Please provide clarification on how the individual Attribute/Assessment values roll up to the Overall Assessment value and how each attribute will be assessed.	Staff developed the attached Guidance Document that provides more information on how each attribute will be assessed as well as space to describe how an overall value will be determined.
Recommend that the Reliability and Resilience Evaluative Criteria include an assessment of how a project impacts overall regional reliability and resilience.	The attributes were refined to reflect this recommendation.
It may be difficult to calculate the average annual rate impact for every project, program, or portfolio. Consider replacing this attribute with a cost/benefit analysis.	Staff will provide any cost information that is available. Each project assessment will be slightly different depending on the stage of the project and the information available.
Suggest there be further description of how MWD investments will be planned to align with member agencies' needs and plans.	Staff will continue to annually track member agency programs and projects, as well as each individual agency's projected needs. This information is considered each year and integrated into Metropolitan's water resources gap analysis and Time-Bound Targets.
Suggest that Draft Working Memo #9 describe the timeline, prioritization, and integration of projects, including how this prioritization and	This Memo provides the assessment methodology for individual projects and programs, and eventually portfolios. The current exercise is to

integration will occur in a timely, cost-effective, and affordable manner.	test this methodology and make necessary adjustments in advance of providing actual project assessments to the Board for consideration. The Assessment form provides space to discuss how projects will or should work together to provide reliability and resilience benefits. The prioritization of investments occurs at the Board level and will be significantly informed by the six evaluative criteria to ensure Metropolitan delivers its core mission of water supply reliability in an environmentally and economically responsible way.
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## 4 Next Steps

Metropolitan staff will continue to test the assessment methodology through simulating the evaluation process with various project and program types. A digital version of the Comprehensive Assessment will also be developed to help compile and process data for each project, program, and portfolio. This internal dashboard will allow a more dynamic view of each assessment, separately and in combination and will be developed over the coming months. Metropolitan staff intends to incorporate information from these efforts, as well as any additional feedback from the Task Force, Member Agency Managers, and interested parties, into the Methodology prior to Metropolitan staff presenting the Draft Master Plan to the Board, which is anticipated to occur in early 2025.

# Metropolitan Water District of Southern California CAMP4W Comprehensive Assessment

Metropolitan is committed to meeting its mission in the face of a changing climate by developing projects and programs that advance Time-Bound Targets, consistent with the Board's priorities. This comprehensive assessment is a key part of the Climate Decision-Making Framework and will be used to support Board deliberations on which projects and programs Metropolitan should pursue.

## Project/Program/Portfolio at a Glance

Title of Project/Program/Portfolio

Status (planning/design/implementation) and Date

Capacity (if applicable)

Capital Cost

Operation/Maintenance or Ongoing Cost

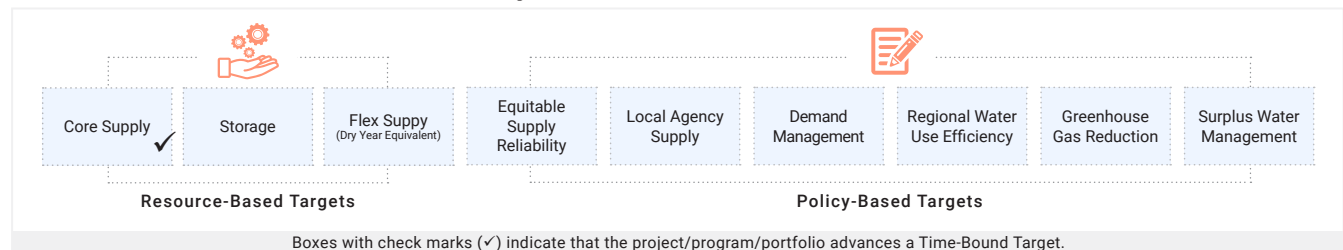
Description and how the project/program/portfolio supports water supplies, reliability and/or delivery

Portfolio view and additional potential companion projects/programs/portfolios

## Summary of Assessment and Staff Recommendation

Each criteria and attribute presented on the following pages includes a description of the quantitative and qualitative measures relevant to the proposed project or programs, as well as, Metropolitan staff's recommendation.

## What Time-Bound Targets Does the Project/Program/Portfolio Address?



## Summary of Assessment and Staff Recommendation (see footnote on Page 2 for ranking guidelines)

Reliability	Resilience	Financial Sustainability and Affordability	Adaptability and Flexibility	Equity	Environmental Co-Benefits
Exceptional	Significant	Moderate	Limited	Very Limited	ND/NA

See the following pages for a detailed assessment across each Evaluative Criteria category.

# Map or Location Information Related to the Project, Program or Portfolio

## Project, Program or Portfolio Location Information


### Footnote: Ranking Guidelines Overall

These **rankings** define which level a project, program or portfolio will deliver CAMP4W objectives overall.

	Exceptional
	Significant
	Moderate
	Limited
	Very Limited
	Not Yet Determined / Not Applicable



Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div><p><b>Reliability</b> Supply Performance Equitable Reliability</p></div>	1. To what extent does it help meet regional supply reliability objectives under changing climate conditions?		Exceptional
	2. To what extent does it advance equitable supply reliability?		Significant
	3. When will it be operational? What is the useful life of the project/program/portfolio? How will benefits continue beyond the 2045 planning horizon under changing climate conditions?		Moderate
	4. Are there additional projects/programs/portfolios that could be added to improve this project/program/portfolio's effectiveness for water supply reliability?		Limited
	5. How does this project/program/portfolio improve the water supply reliability of existing projects/programs/systems?		Very Limited

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
---	--

Key

Exceptional

Significant

Moderate

Limited

Very Limited

Undetermined or Not Applicable

Overall Assessment

Overall Assessment Value


Very Limited

Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
Significant	The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.
Moderate	The project/program/portfolio only addresses some elements of the benefits being assessed by the question/statement or addresses them indirectly.
Limited	The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.
Very Limited	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.

## Assessment

Evaluative Criteria	Attributes	Assessment	Value
 <p><b>Resilience</b> Addresses known vulnerabilities</p> <p>Project, Program or Portfolio's ability to perform under climate impacts</p>	<p>1. How does it perform under identified climate vulnerabilities and hazards (e.g., extreme heat, wildfire, sea level rise, flooding)?</p> <p><i>*Drought is addressed in Reliability</i></p>		Exceptional
	<p>2. How does it maintain system reliability, including delivery and water quality, under identified climate vulnerabilities and hazards (e.g., extreme heat, wildfire, sea level rise, flooding)?</p> <p><i>*Drought is addressed in Reliability</i></p>		Significant
	<p>3. Describe any resilience co-benefits (e.g., seismic) achieved through this project, program, or portfolio.</p>		Moderate

## Additional Information

<p>Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.</p>	
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## Overall Assessment

### Overall Assessment Value

Very Limited

Key


Exceptional	Significant	Moderate	Limited	Very Limited	Undetermined or Not Applicable
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## Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
Significant	The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.
Moderate	The project/program/portfolio only addresses some elements of the benefits being assessed by the question/statement or addresses them indirectly.
Limited	The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.
Very Limited	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div><p><b>Financial Sustainability and Affordability</b> Unit cost</p></div>	1. What is the cost impact?		Exceptional
	2. If applicable, what is the unit cost/acre foot in current year dollars? For storage projects, what is the cost/capacity?		Significant
	3. Does considering life cycle cost change the Financial Sustainability and Affordability?		Moderate
	4. Is it eligible for federal and/or state grants, tax-exempt bonds, or other funding sources or partners? If so, what are the estimated target amount(s)? Is there a local match requirement? If so, how much?		Limited
	5. Does it have a revenue generation component that helps offset costs?		Very Limited

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
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Overall Assessment

Overall Assessment Value

Very Limited

Key

Exceptional

Significant

Moderate

Limited

Very Limited


Undetermined or Not Applicable

Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
Significant	The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.
Moderate	The project/program/portfolio only addresses some elements of the benefits being assessed by the question/statement or addresses them indirectly.
Limited	The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.
Very Limited	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div><b>Adaptability and Flexibility</b></div> <div>Flexibility of existing assets</div> <div>Ease / Complexity</div> <div>Scalability</div>	1. Describe how it works with and/or improves the flexibility of existing assets, plans, policies or programs and how it improves the ability to adjust to systemwide changes (water quality, source water, distribution interruption).		Exceptional
	2. Explain how complex the day-to-day operations might be (example: staffing, maintenance, preparation).		Significant
	3. How can it be phased (i.e., near-term value of an initial phase; using phasing to manage existing uncertainty; using phasing to allow for adjustments in the project/program/portfolio as new information is developed)?		Moderate
	4. What is the implementation risk and/or complexity of implementation?		Very Limited

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
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Key

Exceptional

Significant

Moderate

Limited

Very Limited

Undetermined or Not Applicable

Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional

Significant

Moderate

Limited

Very Limited

Undetermined or Not Applicable

The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.

The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.

The project/program/portfolio only addresses some elements of the benefits being assessed by the question/statement or addresses them indirectly.

The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.

The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.


The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.

Overall Assessment

Overall Assessment Value

Very Limited

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div>Equity</div> <div>Programs for underserved communities</div> <div>Scale of community engagement</div> <div>Public health benefits</div> <div>Workforce development</div>	1. What percentage of the area served by the project, program, or portfolio includes underserved communities and what percentage of the project/program/portfolio area is in underserved communities?		Exceptional
	2. What specific community benefits are included in the project, program, or portfolio?		Significant
	3. What level of community, tribal, and partner engagement is included in the project, program, or portfolio?		Moderate
	4. Describe the extent and reasons why there is broad community support/opposition or potential for support/opposition.		Limited

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
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Overall Assessment

Overall Assessment Value

Very Limited

Key

Exceptional

Significant

Moderate

Limited

Very Limited


Undetermined or Not Applicable

Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
Significant	The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.
Moderate	The project/program/portfolio only addresses some elements of the benefits being assessed by the question/statement or addresses them indirectly.
Limited	The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.
Very Limited	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.

## Assessment

Evaluative Criteria	Attributes	Assessment	Value
 <b>Environmental Co-Benefits</b> Greenhouse gas emissions Benefits Ecosystem services Habitat/wildlife benefits	1. What are the estimated greenhouse gas emissions or enhanced carbon sequestration, and how does it impact the carbon budget, as defined by the Climate Action Plan?		Exceptional
	2. In what way and to what degree does it provide additional ecosystem services?		Significant
	3. To what extent does it protect, improve, or expand wildlife and fish habitat and/or affect flows in ways that improve ecological functions for native species?		Moderate

## Additional Information

<p>Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.</p>	
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## Overall Assessment

### Overall Assessment Value

Very Limited

## Key

Exceptional	Significant	Moderate	Limited	Very Limited	Undetermined or Not Applicable
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## Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
Significant	The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.
Moderate	The project/program/portfolio only addresses some elements of the benefits being assessed by the question/statement or addresses them indirectly.
Limited	The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.
Very Limited	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.



# ATTACHMENT 2 TO WORKING MEMORANDUM #9

## CAMP4W COMPREHENSIVE ASSESSMENT

### GUIDANCE DOCUMENT

#### 1. Objective and Use

The objective of this Guidance Document is to provide instructional support to Metropolitan staff completing CAMP4W Comprehensive Assessments for projects, programs, and portfolios that meet the threshold for evaluation within the CAMP4W Climate Decision-Making Framework. The assessments are based on the Evaluative Criteria developed by the CAMP4W Task Force and reflect the themes and priorities for Metropolitan moving forward to integrate climate adaptation priorities into investment decisions.

The **Evaluative Criteria** represent a defined set of criteria used to establish a value assessed for projects, programs, or portfolios to support the Board's decision-making process. The Evaluative Criteria are broken out into six components: reliability, resilience, financial sustainability and affordability, adaptability and flexibility, equity, and environmental co-benefits.

Each of the Evaluative Criteria include a series of questions to generate both quantitative and qualitative information from which the project, program, or portfolio can be assessed. Each question will receive a value (**Section 2**), which will assist the Board in deliberations. This process will facilitate understanding to which level a project, program, or portfolio advances Metropolitan's long-term reliability, measured by both the Evaluative Criteria and Time-Bound Targets.

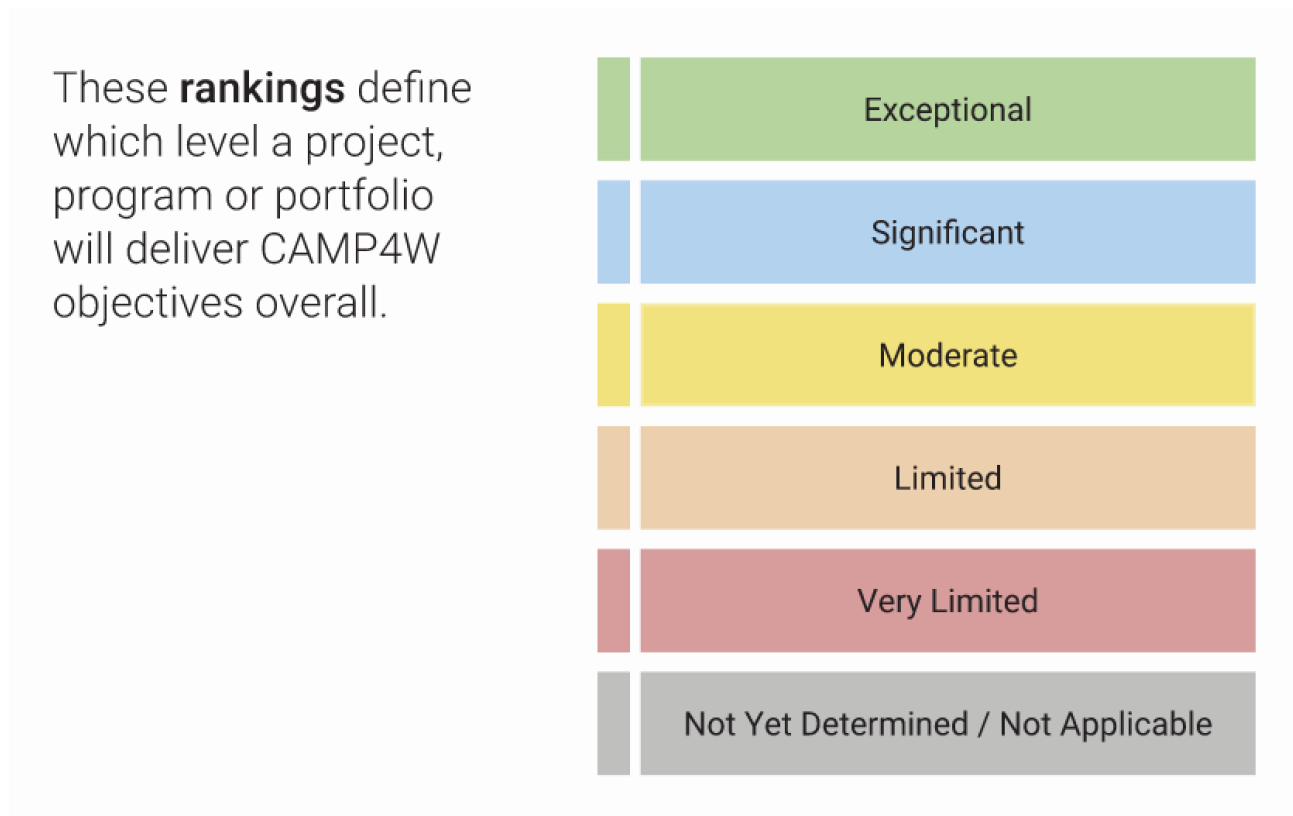
An Evaluation Committee comprised of subject matter experts from various groups within Metropolitan will conduct the Comprehensive Assessments and provide the Board with the information described below to inform decision-making. Each Criteria has an assigned subject matter lead who is responsible for gathering relevant information to make their recommendations. Assignments may be adjusted on a case-by-case basis per the discretion of the Evaluation Committee. The Committee works together to complete the Summary Page, produce supporting materials and refine the final Assessment. Additional staff subject matter experts can be included in deliberations when necessary, and staff will engage Member Agencies during the assessment process. Staff group leads are defined below:

- Reliability: Water Resources Management
- Resilience: Engineering Services
- Financial Sustainability & Affordability: Finance
- Adaptability & Flexibility: Water Supply Operations
- Equity: Diversity, Equity, and Inclusion & External Affairs
- Environmental Co-Benefits: Sustainability, Resilience, and Innovation

The Comprehensive Assessment is broken into seven sections. The first section, Project/ Program/ Portfolio at a Glance provides an overall assessment and staff recommendations. The following sections discuss how it directly relates to Metropolitan's Evaluative Criteria. **Table 8** presents the glossary of terms used in the assessment.

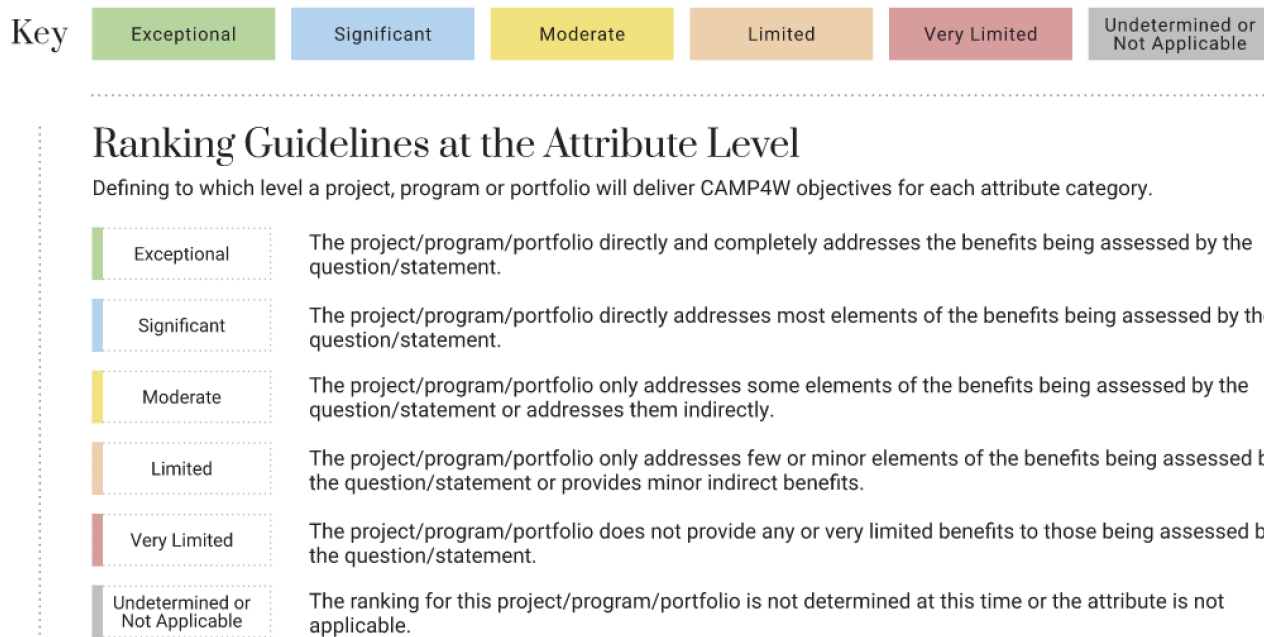
## 2. Ranking Guide

Key attributes of each of the evaluative criteria are given a value based on the criteria shown in Figures 1 and 2. The rankings define to which level a project, program or portfolio will deliver CAMP4W objectives. A score of **Exceptional** is attributed to a project, program, or portfolio that directly and completely addresses the benefits being assessed by the question or statement. Meanwhile, a score of **Very Limited** is attributed to a project, program, or portfolio that does not provide any or has very limited benefits to those being assessed by the question or statement. Where **Not Yet Determined/Not Applicable** is selected, this indicates that the project, program, or portfolio is still in development and the questions cannot be adequately addressed, or the criteria or attribute is not applicable.



**Figure 1:** Ranking Guidelines at the Overall Level





**Figure 2:** Ranking Guidelines at the Attribute Level

### 3. Project, Program, or Portfolio Location Map

A map of the project, program, or portfolio location should be included showing enough detail to illustrate the extent of the project, program, or portfolio, and show all relevant components to support Board discussions.

### 4. Guidance for each Evaluative Criteria

The following tables provide guidance for staff on how to complete the CAMP4W Comprehensive Assessment by providing further explanation of the intent of each question and recommendations on where to access supportive data and information.

#### 4.1 Project/ Program/ Portfolio at a Glance

**Table 1. At a Glance**

Question or Title of Data Entry	Guidance
Title of Project/Program/Portfolio	Enter project/program/portfolio title.
Status and Date (planning/design/implementation)	Enter planning, design, or implementation based on status at the time the form is being prepared and provide date of assessment completion.
Capacity (if applicable)	Enter values such as acre-feet per year of core supply, acre-feet of storage, additional flex supply, cubic feet per second of conveyance capacity, megawatts and/or kilowatt hours provided.

Capital Cost	Enter the capital cost in current year dollars.
Operation/Maintenance or Ongoing Cost	Enter the operation and maintenance cost in current year dollars.
Description and how the project/program/portfolio supports water supplies, reliability and/or delivery	Explain the benefits of the project/program/portfolio as it relates to providing additional core/flex supply or storage, how it improves reliability within the system, or how it improves delivery. Include information on how it performs during wet and dry years and any restrictions (e.g., requires a new core supply to be effective in dry years, etc.). This description should be written for a general audience and without acronyms or terminology not widely understood. (i.e. instead of referencing specific IRP scenarios, describe as more severe climate conditions or stable or increased demands).
Portfolio view and additional potential companion projects/programs/portfolios	Explain how it functions when combined with other projects/programs/portfolios. May require modeling to assess how projects work together to provide benefits, or how benefits are lessened if other projects were to be implemented.
Summary of Assessment and Staff Recommendation	Summarize the comprehensive evaluation of the project/program/portfolio as it relates to the Evaluative Criteria and Time-Bound Targets. This description should focus on the most important benefits of the proposal, as well as significant limitations that need to be communicated. Avoid acronyms or terminology not widely understood and focus on how this proposal ensures the delivery of Metropolitan's core mission.

In addition to the questions posed above, the CAMP4W Comprehensive Assessment includes selection of which Time-Bound Targets the project, program, or portfolio addresses. The user will select all that apply.

The user will also select the assessment value assigned to each Evaluative Criteria. The assessment value presented as part of the summary will align with the value provided on each individual Evaluative Criteria page, as discussed in the following sections.

## 4.2 Reliability Attributes

**Table 2** provides an overall summary of the project, program, or portfolio information and staff assessment results related to the Reliability Evaluative Criteria. This section is only relevant to water supply reliability projects, programs and/or portfolios. Energy projects, for example, will only be evaluated using the other five criteria.

It is important that assessment information is consistent to the extent possible across the various projects/programs/portfolios being assessed as part of the CAMP4W Climate Decision-Making Framework. The following sources of information should be used to support this Evaluative Criteria to ensure the assessment is comprehensive.

- Integrated Resources Plan Simulation Model (IRPSIM)
- Historical drought sequence data
- Qualitative description of reliability attributes and/or limitations

In addition to responding to each question, the user will select a value to assign to each question as well as an overall value for this Evaluative Criteria based on the key provided in **Section 2**.

**Table 2. Reliability Attributes**

Question or Title of Data Entry	Guidance
1. To what extent does it help meet regional supply reliability objectives under changing climate conditions?	If applicable, summarize how it performs using IRPSIM and historical drought sequencing data. Indicate how it performs under multiple scenarios, including Scenarios C and D; include A and B analysis if relevant. This should be described quantitatively based on the projected reduction in future water supply shortages.
2. To what extent does it advance equitable supply reliability?	Indicate how it supports areas within the service area experiencing supply inequity, namely the State Water Project Dependent Areas. Utilize IRPSIM and historical drought sequencing to support the analysis and indicate how it performs under multiple scenarios, including Scenarios C and D; include A and B analysis if relevant.
3. When will it be operational? What is the useful life of the project/program? How will benefits continue beyond the 2045 planning horizon under changing climate conditions?	Based on the most recent estimate at the time, indicate when it will be online and how that relates to the current planning horizon. Indicate how it will continue to perform beyond the current planning horizon (e.g., benefits beyond 2045).
4. Are there additional projects/programs/portfolios that could be	Where companion projects or programs will improve its performance and benefits, list either

added to improve this project/program/portfolio's effectiveness for water supply reliability?	specific projects, programs, or portfolios or categories of projects, programs, or portfolios that would be beneficial. Indicate if a companion project or program would be required or optional.
5. How does this project/program/portfolio improve the water supply reliability of existing projects/programs/systems?	Indicate how existing supply sources and facilities integrate with the project, program, or portfolio and how it will improve their utilization (e.g., perhaps a reservoir will utilize an existing pipeline that would otherwise be underutilized, or perhaps a new conveyance line would better distribute an existing supply).
Additional Information	Utilize this space to further expand on the analysis with any important considerations not covered above and to discuss how it advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies, and initiatives at Metropolitan.
Overall Assessment	Provide a summary of the overall assessment for this Evaluative Criteria based on the previous questions. Explain if certain attributes were considered more significant than others in the recommended overall value determination.

### 4.3 Resilience Attributes

**Table 3** provides an overall summary of the project, program, or portfolio information and staff assessment results related to the Resilience Evaluative Criteria.

It is important that assessment information is consistent to the extent possible across the various projects/programs/portfolios being assessed as part of the CAMP4W Climate Decision-Making Framework. The following sources of information should be used to support this Evaluative Criteria to ensure the assessment is comprehensive.

- Consider link to existing planning processes including system reliability, vulnerability, and flexibility assessments
- Consider industry infrastructure standards for climate resilience and water quality
- Consider Federal and State drinking water standards and total dissolved solids reductions
- Qualitative description of resilience attributes and/or limitations

In addition to responding to each question, the user will select a value to assign to each question as well as an overall value for this Evaluative Criteria based on the key provided in **Section 2**.

**Table 3. Resilience Attributes**

Question or Title of Data Entry	Guidance
<p>1. How does it perform under identified climate vulnerabilities and hazards (e.g., extreme heat, wildfire, sea level rise, flooding)?</p> <p>*Drought is addressed in Reliability</p>	<p>This question is focused on the individual project, program, or portfolio level. Discuss how the project, program, or portfolio itself can withstand climate impacts (e.g., how resilient it is in the face of climate extremes). Reference here any existing vulnerability assessment that may be relevant. This should focus on climate impacts beyond drought to understand how durable the project, program, or portfolio is and what threats it may face.</p>
<p>2. How does it maintain system reliability, including delivery and water quality, under identified climate vulnerabilities and hazards (e.g., extreme heat, wildfire, sea level rise, flooding)?</p> <p>*Drought is addressed in Reliability</p>	<p>This question is focused on the system level. Discuss how the project, program, or portfolio will help Metropolitan's system as a whole to be more resilient to climate impacts beyond drought (e.g., how will it help Metropolitan face climate extremes).</p>
<p>3. Describe any resilience co-benefits (e.g., seismic) achieved through this project, program, or portfolio.</p>	<p>Explain how it can also strengthen Metropolitan's system in the face of other risks such as seismic risks. Also indicate if the project, program, or portfolio is itself resilient to those risks.</p>
<p>Additional Information</p>	<p>Utilize this space to further expand on the analysis with any important considerations not covered above and to discuss how it advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies, and initiatives at Metropolitan.</p>
<p>Overall Assessment</p>	<p>Provide a summary of the overall assessment for this Evaluative Criteria based on the previous questions. Explain if certain attributes were considered more significant than others in the recommended overall value determination.</p>

#### 4.4 Financial Sustainability and Affordability Attributes

**Table 4** provides an overall summary of the project, program, or portfolio information and staff assessment results related to the Financial Sustainability and Affordability Evaluative Criteria.

It is important that assessment information is consistent to the extent possible across the various projects/programs/portfolios being assessed as part of the CAMP4W Climate Decision-Making Framework. The following sources of information should be used to support this Evaluative Criteria to ensure the assessment is comprehensive.

- Project Costs (capital, O&M, life cycle, net present value)
- Qualitative description of potential funding opportunities and/or project partners

In addition to responding to each question, the user will select a value to assign to each question as well as an overall value for this Evaluative Criteria based on the key provided in **Section 2**.

**Table 4. Financial Sustainability and Affordability Attributes**

Question or Title of Data Entry	Guidance
1. What is the cost impact?	Provide the overall cost impact (%) and the average annual cost increase (% over X years).
2. If applicable, what is the unit cost/acre foot in current year dollars? For storage projects, what is the cost/capacity?	<p>For supply projects, provide the cost/acre foot to bring water to Metropolitan's service area.</p> <p>Point-in-time unit cost: Assumes all debt issued in year one and full operation in year one.</p> <p>Lifecycle unit cost: Average unit cost over project life. Includes replacements and refurbishments costs.</p> <p>For storage projects, provide the cost/capacity. For other projects, programs, or portfolios, provide any relevant unit costs.</p>
3. Does considering life cycle cost change the Financial Sustainability and Affordability?	Explain potential life cycle costs of the project, program, or portfolio and how its value changes over time and what impact that may have to rates or other metrics.
4. Is it eligible for federal and/or state grants, tax-exempt bonds, or other funding sources or partners? If so, what are the estimated target amount(s)? Is there a local match requirement? If so, how much?	Provide an explanation of any federal and/or state grants, tax-exempt bonds, or other funding sources or partners that would reduce the cost of the project, program, or portfolio to Metropolitan including details about any matching requirements. Be clear about which are certain/expected, and which are potential/speculative.
5. Does it have a revenue generation component that helps offset costs?	Provide details of any opportunities for the project, program, or portfolio to have a revenue generation component. Be clear about which are certain/expected, and which are potential/speculative.

Additional Information	Utilize this space to further expand on the analysis with any important considerations not covered above and to discuss how it advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies, and initiatives at Metropolitan.
Overall Assessment	Provide a summary of the overall assessment for this Evaluative Criteria based on the previous questions. Explain if certain attributes were considered more significant than others in the recommended overall value determination.

## 4.5 Adaptability and Flexibility Attributes

**Table 5** provides an overall summary of the project, program, or portfolio information and staff assessment results related to the Adaptability and Flexibility Evaluative Criteria.

It is important that assessment information is consistent to the extent possible across the various projects/programs/portfolios being assessed as part of the CAMP4W Climate Decision-Making Framework. The following sources of information should be used to support this Evaluative Criteria to ensure the assessment is comprehensive.

- Quantitative and qualitative description of potential added system operational flexibility (redundancy, water quality, etc.) and implementation complexity and risks (ROW, timing, partners, etc.)
- Quantitative and qualitative description of scalability (cost, benefits, impacts)
- Qualitative description of impact on day-to-day operations
- Ability to adapt to uncertainties and sustain a specified performance across changing conditions (e.g., demand, legislation, energy costs)

In addition to responding to each question, the user will select a value to assign to each question as well as an overall value for this Evaluative Criteria based on the key provided in **Section 2**.

**Table 5. Adaptability and Flexibility Attributes**

Question or Title of Data Entry	Guidance
1. Describe how it works with and/or improves the flexibility of existing assets, plans, policies or programs and how it improves the ability to adjust to systemwide changes (water quality, source water, distribution interruption).	Describe how it works with and/or improves the flexibility of existing assets, plans, policies or programs and how it improves the ability to adjust to systemwide changes (water quality, source water, distribution interruption). Include any areas where it reduces the flexibility of existing assets, plans, policies, or programs.

	This should be focused on operational considerations.
2. Explain how complex the day-to-day operations might be (example: staffing, maintenance, preparation).	Describe how it works and how it will be staffed by Metropolitan. Will there be a need for additional staff or training of existing staff? What is the long-term maintenance need of the project or program/?
3. How can it be phased (i.e., near-term value of an initial phase; using phasing to manage existing uncertainty; using phasing to allow for adjustments in the project/program/portfolio as new information is developed)?	Describe if it can be phased to either reduce the initial cost or to allow for flexibility in timing? Is there a benefit of implementing it all at once, or does approaching it in a modular way allow for future adjustments based on changing conditions and/or needs?
4. What is the implementation risk and/or complexity of implementation?	Describe any risks or challenges associated with implementing the project, program, or portfolio, specifically those that could prevent or significantly delay implementation. Are there permits required, if so, are they complicated or difficult to obtain? Are there risks/complications associated with construction? Are there risks if the project, program, or portfolio is delayed?
Additional Information	Utilize this space to further expand on the analysis with any important considerations not covered above and to discuss how it advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.
Overall Assessment	Provide a summary of the overall assessment for this Evaluative Criteria based on the previous questions. Explain if certain attributes were considered more significant than others in the recommended overall value determination.

## 4.6 Equity Attributes

**Table 6** provides an overall summary of the project, program, or portfolio information and staff assessment results related to the Equity Evaluative Criteria.

It is important that assessment information is consistent to the extent possible across the various projects/programs/portfolios being assessed as part of the CAMP4W Climate Decision-Making Framework. The following sources of information should be used to support this Evaluative Criteria to ensure the assessment is comprehensive.



- The latest CalEnviroScreen scores and percentiles in project area
- Percent of project, program, or portfolio area considered a Disadvantaged Community (CA Water Code 79505.5)
- Qualitative description of level of community, tribal and partner engagement
- Qualitative description of direct community benefits associated with project/program
- Consider using tool to measure/monetize co-benefits, where appropriate
- Scope of Community Benefits Program proposed

In addition to responding to each question, the user will select a value to assign to each question as well as an overall value for this Evaluative Criteria based on the key provided in **Section 2**. Projects in underserved communities are not inherently positive or negative but depend on how they are executed. Moderate values indicate that the project, program, or portfolio does not exacerbate existing community inequities. Projects addressing the needs of underserved communities score higher under these metrics.

**Table 6. Equity Attributes**

Question or Title of Data Entry	Guidance
1. What percentage of the area served by the project, program or portfolio includes underserved communities and what percentage of the project/program/portfolio area is in underserved communities?	This is a quantitative assessment. Provide specific CalEnviroScreen and Water Code §79505.5 references. Include information related to area served by the project, program, or portfolio. Assigned values for this attribute should be measured relative and proportional to the total percentage of underserved communities in Metropolitan’s service area (~40% in 2024).
2. What specific community benefits are included in the project, program, or portfolio?	Explain the benefits of the project/program/portfolio as it relates to local communities that are impacted by it. Benefits may include workforce opportunities, water quality improvements, urban greening, localized resilience, public health, opportunities for small businesses/disadvantaged business enterprises (DBEs), etc. Provide details of the Community Benefits Program proposed, where applicable. Discuss benefits other than water supply; water supply benefits should be covered in the Reliability section. Also describe any anticipated disruption or harm to underserved communities.

3. What level of community, tribal, and partner engagement is included in the project, program, or portfolio?	Explain the level of community, tribal, and partner engagement that is included in the project, program, or portfolio. Be clear about the difference between past or ongoing engagement and planned or intended engagement.
4. Describe the extent and reasons why there is broad community support/opposition or potential for support/opposition.	Provide additional information on the extent of support or opposition and any reasons why those factors exist, and if there are any ways to mitigate opposition and/or increase support.
Additional Information	Utilize this space to further expand on the analysis with any important considerations not covered above and to discuss how it advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies, and initiatives at Metropolitan.
Overall Assessment	Provide a summary of the overall assessment for this Evaluative Criteria based on the previous questions. Explain if certain attributes were considered more significant than others in the recommended overall value determination.

## 4.7 Environmental Co-Benefits Attributes

**Table 7** provides an overall summary of the project, program, or portfolio information and staff assessment results related to the Environmental Co-Benefits Evaluative Criteria.

It is important that assessment information is consistent to the extent possible across the various projects/programs/portfolios being assessed as part of the CAMP4W Climate Decision-Making Framework. The following sources of information should be used to support this Evaluative Criteria to ensure the assessment is comprehensive.

- GHG and pollutant load estimates
- Qualitative description of ecosystem services and functions provided
- Consider using tool to measure/monetize co-benefits, where appropriate
- Acreage of land impacted; Acre-feet of water provided to ecosystem benefits; or other such metrics

In addition to responding to each question, the user will select a value to assign to each question as well as an overall value for this Evaluative Criteria based on the key provided in **Section 2**.

### Table 7. Environmental Co-Benefits Attributes

Question or Title of Data Entry	Guidance
1. What are the estimated greenhouse gas emissions or enhanced carbon sequestration, and how does it impact the carbon budget, as defined by the Climate Action Plan?	Provide quantitative information related to the estimated greenhouse gas emissions for the project, program, or portfolio. If applicable, compare to existing project/program/portfolio emissions and describe how it is or is not consistent with assumptions in the 2045 carbon budget. Include any proposed mitigation to reduce or offset estimated emissions, including the potential for carbon sequestration.
2. In what way and to what degree does it provide additional ecosystem services?	Detail any way and to what degree it provides additional ecosystem services, such as benefits to watershed health, forest or natural land management, pollution reduction, or agricultural sustainability (species and habitat benefits are discussed in question #3 below). Where appropriate, describe how those improvements may support water supply, water quality or other functions important to the Metropolitan mission. Are there negative impacts that may be challenging to mitigate?
3. To what extent does it protect, improve, or expand wildlife and fish habitat and/or affect flows in ways that improve ecological functions for native species?	Provide information related to potential benefits to species, habitat, or ecological functions. Does the project, program, or portfolio contain any elements that improve ecological functions for native species? Where appropriate, describe how those improvements may support water supply, water quality or other functions important to the Metropolitan mission. Are there negative impacts that may be challenging to mitigate?
Additional Information	Utilize this space to further expand on the analysis with any important considerations not covered above and to discuss how it advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.
Overall Assessment	Provide a summary of the overall assessment for this Evaluative Criteria based on the previous questions. Explain if certain attributes were considered more significant than others in the recommended overall value determination.

**Table 8. CAMP4W Glossary of Terms**

<b>Term</b>	<b>Definition</b>
<b>Adaptability and Flexibility</b>	Considers how a project, program, or portfolio improves operational flexibility, the difficulty of implementation, and if a program is able to be phased. Flexibility addresses the capability of Metropolitan's system to respond to changes in water supply, water quality, treatment requirements, or demands during planned and unplanned facility outages.
<b>Adaptive Management</b>	A process that encourages the use of new information to respond to changing conditions. Allows Metropolitan to plan for rapid change and adjust based on current real-world conditions
<b>Affordability</b>	Relative cost burden and elastic ability to access (pay for) service and support member agency efforts to provide affordable supply to their customers
<b>AFY</b>	Acre-Feet per Year
<b>CalEnviro Screen</b>	CalEnviroScreen 4.0 is a methodology to identify communities disproportionately burdened by pollution provided by the California Office of Environmental Health Hazard Assessment (OEHHA)
<b>CAMP4W</b>	Climate Adaptation Management Plan for Water
<b>CAP</b>	Climate Action Plan
<b>Capacity</b>	Refers to the project/program/portfolio design parameters, which may include the acre-feet per year, cubic feet per second, megawatts, or other metric depending on the type of project.
<b>CFS</b>	Cubic Feet per Second
<b>Climate Decision-Making Framework</b>	The process by which Metropolitan assesses investment decisions through a methodical, data driven manner while accounting for climate risks and vulnerabilities, Board preferences and financial implications. Builds in the process for adaptively making decisions over time based on evolving conditions
<b>Climate Vulnerability Assessments</b>	Assessments developed to identify infrastructure that is most vulnerable to climate change
<b>Co-Benefits</b>	Benefits that extend beyond the primary purpose of the project/program/portfolio.
<b>Community Benefits Program</b>	Program to identify, fund, and implement local projects that can provide tangible, lasting, and valuable economic and social benefits to the residents, businesses, and organizations impacted by construction and operation of the project.

<b>Companion Projects</b>	Projects that support the project/program/portfolio being assessed, which without the companion project would not be able to function within Metropolitan's system due to connectivity, supply source, power supply, or other, but which have not been combined to form a portfolio for assessment purposes (for example, if a project has multiple potential companion projects to consider).
<b>Core Supply</b>	Supply that is generally available and used every year to meet demands under normal conditions and may include savings from efficiency gains through structural conservation.
<b>CRA</b>	Colorado River Aqueduct
<b>Demand Management</b>	Managing long-term demands through the efficient use of water
<b>Disadvantaged Community</b>	Defined in California in Water Code 79505.5 as a community with an annual mean household income (MHI) that is less than 80 percent of the statewide MHI, and a severely disadvantaged community is defined by an MHI below 60 percent of the statewide MHI.
<b>Drought Mitigation Projects</b>	Projects identified to improve Metropolitan's response to drought in response to the vulnerability experienced in the State Water Project Dependent Areas during the 2020-2022 drought.
<b>Ecosystem Services</b>	Direct and indirect benefits that ecosystems provide humans including, but limited to, drinking water, air quality, flood protection, food, recreation, tourism, and carbon sequestration.
<b>Ecological Functions</b>	Natural processes and interactions within an ecosystem, supporting life and maintaining environmental balance. This includes processes like nutrient cycling, pollination, and habitat formation, which are critical for sustaining biodiversity and ecosystem health.
<b>Environmental Co-Benefits</b>	Measures greenhouse gas emissions, ecosystem services, and benefits to habitat and wildlife
<b>Equitable Supply Reliability</b>	All member agencies receive equivalent water supply reliability through an interconnected and robust system of supplies, storage, and programs.
<b>Equity</b>	Fair, just, and inclusive
<b>Evaluative Criteria</b>	Metrics used to assess and rank projects/programs/portfolios; a defined set of criteria used to establish a value for projects, programs, and portfolios which support the Board's decision-making process. Evaluative Criteria are used in collaboration with the Time-Bound Targets and Signposts to support investment decisions.
<b>Financial Plan</b>	Metropolitan's current financial circumstances and its long-term and short-term goals

<b>Flex Supply</b>	A supply that is implemented on an as-needed basis and may or may not be available for use each year and may include savings from focused, deliberate efforts to change water use behavior.
<b>Financial Sustainability</b>	Revenues sufficient to cover expenses over the short- and long-term.
<b>GHG</b>	Greenhouse Gas Emissions
<b>IRP</b>	Integrated Water Resources Plan
<b>IRPSIM</b>	IRPSIM is a water supply and demand mass balance simulation model, which analyzes the supply-demand gaps.
<b>Life cycle cost</b>	Cost over the expected life of the project/program/portfolio inclusive of capital and operations and maintenance costs and escalation factors.
<b>Local Agency Supply</b>	Member Agency supplies
<b>LRFP</b>	Long-Range Financial Plan
<b>Member Agency Projects</b>	Projects led by Member Agencies that are brought to the Metropolitan Board for funding consideration
<b>MW</b>	Megawatt
<b>O&amp;M</b>	Operation and Maintenance
<b>Operational</b>	Refers to the time period when the project/program/portfolio will be online and fully functioning as intended.
<b>Phased</b>	Refers to a project/program/portfolio's ability to be implemented in phases, which may indicate increased flexibility during the adaptive management process.
<b>Planning Horizon</b>	Refers to the year in which Metropolitan is currently planning towards (e.g., 2045 based on the 2020 IRP Needs Assessment).
<b>Portfolio</b>	A subset of projects/programs that would be implemented together.
<b>Project Lists</b>	A compilation of projects that will be analyzed through the CAMP4W process
<b>R &amp; R</b>	Refurbishment and replacement. Refers to projects that are required to maintain Metropolitan's existing infrastructure but does not refer to additional capital projects needed to address a specific vulnerability (climate or earthquake) beyond typical system maintenance
<b>Regional Water Use Efficiency</b>	Refers to Metropolitan's efforts to assist Retail Agencies with achieving, or exceeding, compliance with the State Water Resources Control Board Water Use Efficiency Standards
<b>Reliability</b>	Ability to always meet water demands.

<b>Resilience projects</b>	Capital projects that increase resilience of existing infrastructure beyond what would be included in a typical R&R project
<b>Resilience</b>	Ability to withstand and recover from disruptions
<b>Signposts</b>	Real-world metrics that allow Metropolitan to monitor how projections align with the real world. Signposts will guide the revision of Time-Bound Targets over time, shaping project and program development and helping inform the Board's investment decisions at different project stages.
<b>Source Information</b>	Refers to the source of data or analysis process that should be used to support the assessment to provide a uniform evaluation process across projects and programs.
<b>Storage</b>	The capability to save water supply to meet demands at a later time. Converts core supply into flexible supply and evens out variability in supply and demand.
<b>Surplus Water Management</b>	Management of excess water available beyond current demands that is stored for future and anticipated periods of need.
<b>SWP</b>	State Water Project
<b>SWPDA</b>	State Water Project Dependent Area
<b>System Assessment</b>	Documentation of Metropolitan's current system and policies
<b>TAF</b>	Thousand-Acre-Feet
<b>Task Force for CAMP4W</b>	A group made up of a select list of Metropolitan Board Members, Member Agency Managers, and Metropolitan staff tasked with guiding the CAMP4W process
<b>Themes</b>	A series of Board identified preferences developed during the early phases to represent the values of the CAMP4W planning process. The Themes inform the development of the Evaluative Criteria so that the assessment of projects/programs/portfolios reflects these Themes and therefore the Board preferences.
<b>Time-Bound Targets</b>	A series of resource development targets and policy-based targets that establish goals to be achieved in the near-, mid-, and long-term. Time-Bound Targets are set based on current planning targets (current real-world conditions) and are updated based on Signposts.
<b>Vulnerability Assessment Recommendations</b>	Recommendations for infrastructure needed to harden the existing system in the face of climate change and other hazards the region face
<b>Working Memoranda</b>	Documentation of the CAMP4W process that will form the basis for the Master Plan.

**From:** [Philip Bogdanoff](#)  
**To:** [Camp4Water](#)  
**Cc:** [Craig Parker](#); [David Kim](#)  
**Subject:** RE: [EXTERNAL] CAMP4W Oct. 23 Taskforce Meeting cancelled; comments on Working Memorandums #7 and #9  
**Date:** Friday, October 18, 2024 9:37:57 AM

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Good morning.

Thank you for the ongoing opportunity to present Anaheim's comments and insights on the CAMP4W process. We appreciate the opportunity to review and comment on Working Memorandums #7 (Integrating a Changing Climate into Metropolitan's Planning Process) and #9 (Project, Program and Portfolio Assessment (Including the Draft Comprehensive Assessment Form)). We also want to thank Staff and Task Force members for their time and effort on this important planning process. Anaheim has reviewed the working memorandums and is submitting the comments below for consideration.

Please contact Craig Parker or myself if you have any questions or require any clarification.

Again, thank you for this opportunity to participate in the CAMP4W development process.

Regards,

Philip

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Philip Bogdanoff, PE  
Water Engineering Manager  
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Working Memorandum #9

Figure 1. Climate Decision-Making Framework – Suggest developing a more detailed version of the framework to show potential checkpoints, decisions and/or actions for Staff, Board or Task Force. In lieu of a more detailed framework, perhaps Staff could develop an example timeline of a project moving through the CAMP4W process with major checkpoints, decisions, and action items.

Figure 1. Climate Decision-Making Framework – Step 4 – Please provide additional information or clarification on how Staff (or Task Force) anticipates bundling projects into a portfolio. Some projects may clearly be grouped into a portfolio from the start due to their specific co-dependance or co-benefits. However, as stated in Step 4, some projects may be evaluated relative to other projects and potential portfolios may be developed. It would be helpful if MET can provide some clarity on how it envisions this process. During our review of the material, we had several questions related to this process, such as: "If a project is assigned to a portfolio, will MET evaluate and provide a scoring for the stand-



alone project and the portfolio containing that project to show the overall increase? Is it possible that a single project could be bundled into several portfolios and each would be moved through the subsequent steps? If so, how would MET decide on which portfolio to move forward? Is it possible that multiple portfolios alternatives would be presented to the Board?" We understand that this an adaptive and evolving process with multiple decision paths along the way. We are asking clarification at this time to gain a better understanding of the proposed approach.

Figure 7. Quantitative and Qualitative Metrics by Evaluative Criteria Category – Per the CAMP4W Year One Progress Report, the Evaluative Criteria were assigned a point rating to indicate relative importance of the criteria (Reliability 25 pts, Resilience 25 pts, Financial and Affordability 20 pts, Adaptability and Flexibility 10 pts, Equity 10 pts and Env Co-Benefits 10 pts). While we recognize that the Comprehensive Assessment has move away from a purely quantitative ranking, we recommend that staff re-incorporate some type of weighting to the assessment to reflect these same levels of importance.

Attachment1, CAMP4W Comprehensive Assessment (also the Example Comprehensive Assessment Form)

General Comment #1

See comment above on Figure 7 in Memo #9. Per the CAMP4W Year One Progress Report, the Evaluative Criteria were assigned a point rating to indicate relative importance of the criteria (Reliability 25 pts, Resilience 25 pts, Financial and Affordability 20 pts, Adaptability and Flexibility 10 pts, Equity 10 pts and Env Co-Benefits 10 pts). While we recognize that the Comprehensive Assessment has move away from a purely quantitative ranking, we recommend that staff incorporate some type of weighting to the assessment to reflect these same levels of importance.

General Comment #2

The CAMP4W process is seeking to increase MET's understanding of climate risks to its water supply, infrastructure & operations and provide a decision-making tool to strengthen MET's ability to fulfill its mission. At the heart of its mission is to provide its service area with adequate and reliable supplies of high-quality water. For this reason, we suggest adding a quantitative scoring system or assessment for how each project impacts the Resource-Based Targets of Core Supply, Storage and Flex Supply. We understand that many future projects will be proposed to address Policy-Based Targets and we support these efforts. However, we feel that an assessment of how every project impacts the Resource-Based Target is important information for the various stakeholders. This directly ties to MET's core mission and provides a comprehensive evaluation of each proposed project/portfolio. The Resource-Based Targets are quantitative targets and would most easily allow for some type of a relative scoring.

General Comment #3

Suggest avoiding acronyms (e.g. OSCOP) and references to other documents or programs in the Forms. For example, estimated costs/ac-ft under the Financial Evaluative Criteria should be included on the Form rather than referring to other programs or reports. All relevant information should be self-contained on each of the Forms. Staff, Task Force members and Member Agency staff may not have easy or quick access to the referenced materials.

#### General Comment #4

Please provide clarification on how the individual Attribute/ Assessment values roll up to the Overall Assessment value. For example, the “SWPDA Equitable Supply Reliability Near-Term Portfolio” Adaptability and Flexibility Form shows two Exceptional, one Significant and one Compromised value with an overall Exemptional ranking. Assuming a quantitative scoring method (i.e. 1 – 10) for each category, this would most likely result in a Significant score. In lieu of a purely quantitative scoring assessment, we feel it is important to provide as much clarity and transparency as possible to avoid potential misunderstandings or misinterpretations.

#### Reliability

We recommend that the Reliability Evaluative Criteria include an additional Attribute/ Assessment for how a project advances the overall system (regional) supply reliability. Projects/Portfolios to be evaluated through the CAMP4W process may advance overall water supply reliability and/or equitable supply reliability. These are not necessarily one in the same. Both provide a benefit to MET’s water supply but may address different Time Bound Targets. In an effort to provide a comprehensive assessment of CAMP4W projects/portfolios, we feel it is vital that all stakeholders understand how a project contributes to each of these important goals/objectives.

#### Resilience

Similar to comments noted above under Reliability, we feel that project/portfolio evaluations should provide an additional assessment of the potential benefits/impacts to the overall system (regional) resiliency. We do not feel that every project needs to provide a direct or significant benefit to the overall region but that this additional context is important information for all stakeholders to make informed decisions.

#### Equity

Attribute 2 seems very broad and could apply to a majority of projects/portfolios. Please provide some additional examples of how different projects could produce different assessments. What project or efforts would result in an “Exceptional” vs “Compromised” assessment?

**From:** [Tsui, Sabrina](#)  
**To:** [Crosson, Elizabeth K](#)  
**Cc:** [Collins, Anselmo](#); [Pettijohn, David](#); [Kwan, Delon](#)  
**Subject:** RE: [EXTERNAL] CAMP4W Oct. 23 Taskforce Meeting cancelled; comments on Working Memorandums #7 and #9  
**Date:** Friday, October 18, 2024 12:45:32 PM  
**Attachments:** [image001.png](#)

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Hi Liz,

I appreciate the discussion yesterday regarding the CAMP4W process. LADWP is looking forward to Working Memo #8 focused on Signposts as well as the upcoming November 12<sup>th</sup> Member Agency Workshop and the Draft Annual Report that you mentioned will be shared in December. We are hoping these additional documents and workshop will clarify the CAMP4W process, and specifically how existing planning processes will help inform and/or be integrated into CAMP4W.

In Working Memo #7, we would like clarity on how are the existing processes, such as those for “System Capacity” in Section 2.2, under the overall “System Reliability” in Section 2.1, will be feeding into the CAMP4W evaluative criteria framework. Nearly all other components making up MWD’s strategy for overall “System Reliability” have been recently updated with studies and/or other efforts. However, studies mentioned in the “System Capacity” category were last completed in 2007, as noted in the working memo, and were based on prior IRPs. When will new Integrated Area and/or System Overview Studies be completed? Figure 6 on page 21 shows a flowchart where “System Capacity” work feeds into CAMP4W. We request clarity on how existing processes will address “System Capacity” and when will that “System Capacity” information be incorporated into CAMP4W evaluative criteria. Please confirm that “System Capacity” information will be incorporated into CAMP4W Evaluative Criteria and Time Bound Targets before projects and programs are evaluated through CAMP4W.

In Working Memo #9, it would be helpful to include the Guidance Document you mentioned in the email below in Section 3.1 so that it is clear what scoring metrics and definitions will be used along with the assessment form.

I appreciate your openness to my suggestion of Member Agency involvement in reviewing the MWD Evaluation Committee’s first cut of rating projects using the CAMP4W Project Assessment Form. Based on prior feedback, many, if not all, Member Agencies will likely appreciate opportunity to review and provide input. This would be extremely important to confirm alignment with Member Agencies’ needs and future plans.

We appreciate your work in ensuring that this CAMP4W process is open and transparent, so that the Board is able to make informed, educated, and intentional decisions on where and when investments are made.

Thanks again, and I hope you had a great parent-teacher conference yesterday!

**Sabrina Y. Tsui, P.E.**

Manager, Resource Development & Watershed Management

Water Resources Division  
(213) 367-4131



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**From:** Crosson,Elizabeth K <[ECrosson@mwdh2o.com](mailto:ECrosson@mwdh2o.com)>  
**Sent:** Wednesday, October 16, 2024 8:21 PM  
**To:** Tsui, Sabrina <[Sabrina.Tsui@ladwp.com](mailto:Sabrina.Tsui@ladwp.com)>  
**Subject:** RE: [EXTERNAL] CAMP4W Oct. 23 Taskforce Meeting cancelled; comments on Working Memorandums #7 and #9

Hi Sabrina,

I hope all is well. I'm happy to set up a time to discuss.

A few responses in the meantime – we are working on a Guidance Doc to accompany the Assessment Form that will include guidance to the evaluation committee for using the evaluative criteria, including definitions where needed. That will be distributed in advance of the Nov 20 Task Force along with 4-5 additional project/program assessment examples. We also have a Member Agency meeting scheduled for November 12<sup>th</sup> to get feedback on those examples as well as the overall assessment approach. If there are specific revisions to the two Working Memos distributed, now is the time to submit those as we plan to distribute the finals before the Nov. 20 meeting as well.

On your first question around identifying the needs, that is directly addressed in the IRP Needs Assessment and scenario analysis. I'm not sure what else you are looking for, but again I'm happy to jump on a call.

Best,  
Liz

**Liz Crosson**

Chief Sustainability, Resilience and Innovation Officer  
Metropolitan Water District of Southern California  
C: (541) 944-5589



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**From:** Tsui, Sabrina <[Sabrina.Tsui@ladwp.com](mailto:Sabrina.Tsui@ladwp.com)>  
**Sent:** Wednesday, October 16, 2024 1:41 PM

**To:** Crosson,Elizabeth K <[ECrosson@mwdh2o.com](mailto:ECrosson@mwdh2o.com)>

**Subject:** RE: [EXTERNAL] CAMP4W Oct. 23 Taskforce Meeting cancelled; comments on Working Memorandums #7 and #9

Good afternoon Liz,

In reviewing the material attached with the email below, it doesn't appear that our questions and concerns have been addressed. Specifically, we requested clarity in the CAMP4W process to identify the needs in the region, clarification in the assessment rating scale, and examples to show how evaluative criteria scoring will following quantifiable, meaningful, and measurable metrics and allow Member Agencies to help provide additional feedback and input to the processes.

Could you point me in the right direction if we missed the responses in the working memos? We are also available for a virtual meeting as well.

Thanks,

**Sabrina Y. Tsui, P.E.**

Manager, Resource Development & Watershed Management  
Water Resources Division  
(213) 367-4131



Please consider the environment before printing this email.

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**From:** Office of the General Manager <[OfficeoftheGeneralManager@mwdh2o.com](mailto:OfficeoftheGeneralManager@mwdh2o.com)>

**Sent:** Friday, October 4, 2024 4:34 PM

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**Subject:** [EXTERNAL] CAMP4W Oct. 23 Taskforce Meeting cancelled; comments on Working Memorandums #7 and #9

**Importance:** High

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THE METROPOLITAN WATER DISTRICT  
OF SOUTHERN CALIFORNIA

**Date:** October 4, 2024

**To:** Board of Directors  
Member Agency Managers

**From:** Liz Crosson, Chief Sustainability, Resilience and Innovation Officer

**Subject:** CAMP4W Oct. 23 Taskforce Meeting cancelled; comments on Working Memorandums #7 and #9

The CAMP4W TaskForce meeting scheduled for Oct. 23, 2024 has been cancelled. Staff will be working on project assessments to discuss with you at our next Taskforce meeting scheduled for Wednesday, Nov. 20, 2024.

Working Memorandum #9: Project, Program and Portfolio Assessment is attached. This was shared with you at our Taskforce meeting on Sept. 25, 2024.



Working Memorandum #7: Integrating a Changing Climate into Metropolitan's Planning Processes is also attached for your review. The purpose of this Memo is to synthesize Metropolitan's planning processes and demonstrate how these ongoing efforts are integrated, where appropriate, into the CAMP4W process.

Please provide any comments on these Memorandums and/or the development of the CAMP4W Assessment Form to [Camp4Water@mwdh2o.com](mailto:Camp4Water@mwdh2o.com) by Friday, Oct. 18, 2024.

If you have any questions, please contact us at [Camp4Water@mwdh2o.com](mailto:Camp4Water@mwdh2o.com).

Thank you.

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Climate Adaptation Master Plan for Water (CAMP4W)  
Comments from the Las Virgenes Municipal Water District

October 18, 2024

**Working Memorandum 7: Integrating a Changing Climate into Metropolitan's Planning Processes dated September 2024**

Overarching Comment: Given the importance and complexity of this issue, a focused meeting of the Member Agencies would be very helpful to provide a better understanding of how climate planning is to be **integrated** with MWD's existing planning processes. Based on the descriptions provided in the memo, it remains difficult to understand how that integration is envisioned to happen. It is also difficult to discern how the proposed integration would result in streamlining the project development process. Planning is a core function and strength of MWD, so a common understanding of the changes proposed in this memo is very important.

- Page 1, Paragraph 3. The last sentence indicates that Metropolitan has several planning processes to identify potential projects. However, the following pages provide a description of more than a dozen different planning efforts that could result in identifying projects. There is a bit of a disconnect here that should be corrected. Also, some of the planning processes described have not been performed for more than 15 years (e.g., System Overview Study in 2004 and the Integrated Area Study in 2007). Please provide an explanation whether these planning processes are expected to continue and when they might be updated.
- Page 13, State Water Project Dependent Area Drought Mitigation Actions. The preceding five pages describe, in detail, multiple programs that have been developed and implemented to address system reliability. However, the program addressing the State Water Project Dependent Area Drought Mitigation Actions, Section 3.6, is very brief with minimal background and detail presented. Please consider expanding this section to include infrastructure conditions, water supply conditions, impacts on the SWP-dependent agencies, and Metropolitan's Call to Action to provide equitable access to water supply and storage assets.
- Page 13, Figure 3. SWPDA Drought Mitigation Actions. The Drought Mitigation Actions Portfolio presented in Figure 3 should be consistent with the portfolio presented to the Board on February 13, 2024. Please adjust Figure 3 to include Eastern SWP-dependent Area projects and Western SWP-dependent Area projects. Also, modify Figure 3 to include Stages 1 and 2 of the Sepulveda Feeder Pumping Project.
- Page 21, Figure 6. Proposed Project Development Process. Figure 6 is helpful to understand "evaluated under CAMP4W" versus "outside of the CAMP4W process". However, additional clarifications are needed.
  - Will there be an opportunity for Member Agencies to provide input? The second column (top) shows feasibility studies, technical studies, alternative analyses, and resource management studies. Consider adding stakeholder workshops to this column to capture Member Agency input when appropriate.

- After reviewing Figure 6 and the text in Section 4.3 Proposed Project Development and Evaluation Process (page 20), there is still some confusion on the differences between projects, programs, and portfolios and how they are handled. For example, will staff evaluate projects and programs, and then create portfolios? Will the portfolios (created by staff) be forwarded to the Board for deliberation, approval, and advancement as part of the CAMP4W evaluation process (third column)? Will the Board only deliberate, approve, and advance portfolios? Regarding Figure 6, it would be helpful to show how projects, programs, and portfolios flow through the development process at each step.
- The lifecycle of a project/program/portfolio may be long and complex. When does a project/program/portfolio get evaluated under CAMP4W? Before final design? Or, before implementation/construction? The timing of the review process under CAMP4W might be variable depending on the complexity of the project/program/portfolio. However, it would be helpful if this issue was addressed in Section 4.3 Proposed Project Development and Evaluation Process.

**Working Memorandum 9: Project, Program, and Portfolio Assessment dated September 2024**

- Attachment 1, Draft CAMP4W Comprehensive Assessment Form. At this time, we support the Comprehensive Assessment Form. When filled in completely, the Form should provide critical qualitative and quantitative information to thoroughly evaluate projects, programs, and portfolios.
- Draft CAMP4W Comprehensive Assessment Form, Page 5 of 8, Financial Sustainability and Affordability. The average annual rate impact attribute is included in the form. This attribute might not be helpful or practical. It would be difficult to calculate the average annual rate impact for every project, program, or portfolio. More telling is the average annual rate impact for the end-user, or retailer. Consider replacing this attribute with a cost/benefit analysis.

Example Project Scoring Using Draft CAMP4W Comprehensive Assessment Form presented at the September 25, 2024 Subcommittee on Long-Term Regional Planning Processes and Business Modeling

- While we support the Draft CAMP4W Comprehensive Assessment Form and the criteria and attributes used to evaluate projects, programs, and portfolios, we do have concerns regarding the example portfolio used on September 25, 2024, referred to as SWPDA Equitable Supply Reliability Near-Term Portfolio.
  - The August 2022 Call to Action and Board commitment to regional reliability directed staff to present a portfolio of projects and programs to provide the SWP-dependent agencies with equitable access to water supply and storage assets. The recommended portfolio was presented to the Board in February 2024 and included two categories: Category 1 – Cost-Effective Projects Providing Timely Relief and Category 2 – Projects for Further Consideration. Considering the previous actions and commitments, Category 1 - Cost-Effective Projects Providing Timely Relief would be an appropriate portfolio to test and evaluate the Draft CAMP4W Comprehensive Assessment Form.

- Example Project Scoring Page 3 of 9, Comprehensive Assessment by Evaluative Criteria – Reliability, Additional Information. As presented, we feel the alignment with previous policies and initiatives is overstated. The collaboration between Metropolitan and the SWP-dependent agencies through a series of workshops in 2022 and 2023 resulted in the portfolio presented at the February 2024 Board meeting (described above). The portfolio presented in the example has some beneficial attributes, but it was not the recommended portfolio.
- Example Project Scoring Page 7 of 9, Comprehensive Assessment by Evaluative Criteria – Equity, Attributes and Assessment. As presented, the extent of broad community support for the example portfolio is overstated. The SWP-dependent agencies experienced unprecedented impacts during the severe drought of 2020-2022. It would be more appropriate to state that the portfolio of projects presented to the Board in February 2024 (i.e., Category 1 – Cost-Effective Projects Providing Timely Relief) has broad community support from the affected communities.

**From:** [Mendelson-Goossens, Liz](#)  
**To:** [Crosson, Elizabeth K](#)  
**Subject:** Comments on CAMP4W Working Memos #7 and #9  
**Date:** Wednesday, October 23, 2024 5:45:55 PM  
**Attachments:** [image001.png](#)  
[2023-09-11 WA Del ltr re MWD LRFP-NA.pdf](#)  
[2022-03-22 WA Del ltr to MWD GM re IRP Needs Assessment.pdf](#)

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Hi Liz,

The Water Authority (and I) appreciate your hard work and staff's work on CAMP4W. In addition to Water Authority staff engagement in CAMP4W, our Delegates are following the process closely and may provide additional comments on the current Draft Working Memos #7 and #9.

After reviewing these drafts, I'm not sure the CAMP4W process is resulting in what many board members, including the Water Authority's Delegates, expected: a plan that would allow the board to assess member agencies' needs, alternatives to meet those needs, and how to pay for them over time, while accounting for climate change impacts. Based on Draft Working Memos #7 and #9, it appears that CAMP4W is currently focused on developing in a process to assess projects, programs, and portfolios that originate from MWD's existing processes.

We get the sense that the CAMP4W decision-making process focuses more on projects than having a plan from which adaptive management occurs. For example, Figure 7 on page 22 of Draft Working Memo #7 shows the first step in this decision-making process is identifying a project, which leads to the next seven steps that aim to assess the project. It would be helpful to describe the process staff anticipates using to decide which projects to bring forward for this assessment and how this decision-making process will align with member agencies' identified needs and allow for adaptive management. As laid out currently, it is not until the next-to-last step in the process, just prior to a board's decision to provide funding, that there is consideration of if the project is needed. It would be worthwhile for staff to describe how this need will be determined and why it is occurring at this later stage in the decision-making process, rather than earlier on. We also noticed that just before determining if the project is needed, there is a financial impact evaluation step to assess financial sustainability and affordability. It would be helpful to describe these criteria and how they will be applied to evaluate a project's financial impact as well as a holistic perspective for all projects and programs being considered/assessed.

In reviewing these two draft memos, we understand MWD has developed a project assessment process but would find it helpful to describe how this process will be used to meet the needs of the member agencies and be wrapped into a long-term plan. For

example, it would be helpful to clarify how the assessment of various projects will come together to achieve the time-bound targets and how both will be adaptable to match changed conditions. One thing we think would help match the proposed decision-making process with the needs of member agencies would be to start the assessment with checking the signposts and confirming the need for projects and programs (currently the second to last step). This change could allow planning and investments to meet those needs consistent with a long-term resources and financial plan, including for capital investment needs, pending integration with the member agency managers' business model work that is now underway.

Page 19 of Draft Working Memo #7 lists three bullet points for considering equity as part of the informed investment decisions section. We do not believe these bullets include all relevant considerations or issues raised in the past by board members, and that equity deserves further board deliberation. We believe that these equity considerations and comments relate to MWD's value proposition, which the board is seeking to define to guide future investments, and which is also essential in identifying which MWD services member agencies are willing to pay for and believe are fair to pay for.

Although there was more member agency manager and task force feedback than listed on page 4 of Draft Working Memo #9, we believe there is broad consensus on the last two bullets, namely, 1) water supply reliability is paramount in MWD's mission (with the definition of reliability yet to be defined); and 2) MWD should prioritize opportunities among member agencies to work with existing infrastructure and supplies to realize cost savings for all member agencies and their ratepayers. Draft Working Memo #9 (in the third paragraph on page 1) refers to this collaborative concept and we suggest there be further description of how MWD investments will be planned to align with member agencies' needs and plans.

Draft Working Memo #7 is very helpful in identifying the many studies, programs, and plans that MWD staff currently rely on for planning in specific areas and it would be helpful for MWD to share copies or links to the planning documents and processes referenced in Draft Working Memo #7. We also think it would be helpful to identify which of these plans have been previously presented to the board and also if they were adopted by the board. We understand that these plans are used to identify and develop recommended projects for the Board's approval. As described now, our understanding is that these programs and plans will continue to be undertaken, but if any projects result in a "yes" to any of the four questions on page 18 of Draft Working Memo #7 then they will be considered in the CAMP4W decision-making process. Is that correct? If not, then it would be beneficial to explain how the CAMP4W process will result in further

integration of MWD's planning focused on climate change and climate adaptation. It would also be beneficial to explain how current planning integration occurs and has resulted in the identification of near- and long-term investments to meet existing needs, and how this is factored into MWD's ten-year rate forecast and CIP. We also suggest explaining how MWD's annual CIP has been prioritized in light of the plans, programs, and processes in Draft Working Memos #7 and #9.

Draft Working Memo #7 references several key plans that are two decades or so old (like the 2007 Integrated Area Study). Over the past two decades, conditions have substantially changed. Perhaps the most notable change is the reduced demand for MWD water. It would be helpful for staff to describe how it has responded to reduced demands to date, in the context of all the studies, programs, and plans listed in Draft Working Memo #7.

Another consideration is efforts that MWD has taken to contain costs, which was something brought up by both panelists and board members during the EIA Committee's affordability panels as one of the top things MWD can do to help with affordability. It would be helpful to describe how its existing processes and plans identify cost savings or the ability to reduce investment needs, particularly in light of reduced demand for MWD water. There is a clear focus on the potential impacts of not investing, but there should also be a focus on the impacts of overinvesting and stranding assets. The Water Authority Delegates have raised the need for this balance previously.

Staff presented its draft Climate Vulnerability and Risk Assessment (CVRA) in June 2024, including near-term recommendations that were described as MWD's most pressing climate-related needs. It would be helpful to understand how the CVRA fits into CAMP4W. Is it serving as CAMP4W's main climate change analysis?

We suggest that Draft Working Memo #9 describe the timeline, prioritization, and integration of projects, including how this prioritization and integration will occur in a timely, cost-effective, and affordable manner.

These comments are consistent with those provided by our Delegates and I've attached two of their letters, dated March 22, 2022, and September 11, 2023, for ease of reference.

We look forward to continued dialogue and again, very much appreciate your dedication and efforts to this process. Please reach out if you would like to discuss further. Thank you again for the opportunity to provide comments.

Thank you,

**Liz Mendelson-Goossens** (she/her/hers)

Principal Water Resources Specialist, MWD Program

**Cell** (619) 209-9266

**Email** [lmendelson@sdewa.org](mailto:lmendelson@sdewa.org)



4677 OVERLAND AVENUE, SAN DIEGO, CA 92123

# Metropolitan Water District of Southern California CAMP4W Comprehensive Assessment

Metropolitan is committed to meeting its mission in the face of a changing climate by developing projects and programs that advance Time-Bound Targets, consistent with the Board's priorities. This comprehensive assessment is a key part of the Climate Decision-Making Framework and will be used to support Board deliberations on which projects and programs Metropolitan should pursue.

## Project/Program/Portfolio at a Glance

Title of Project/Program/Portfolio

Status (planning/design/implementation) and Date

Capacity (if applicable)

Capital Cost

Operation/Maintenance or Ongoing Cost

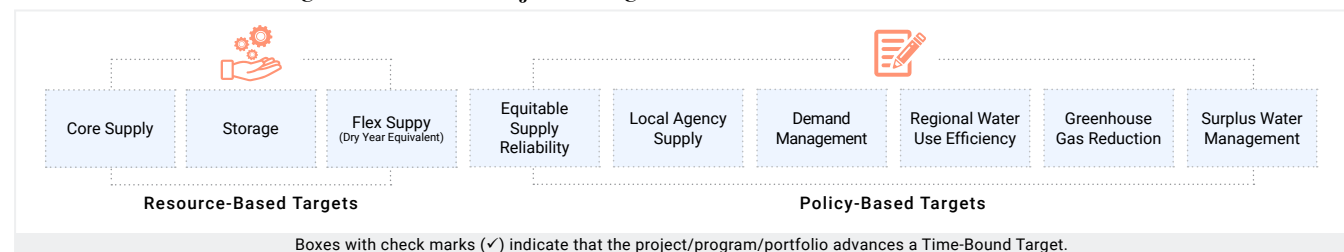
Description and how the project/program/portfolio supports water supplies, reliability and/or delivery

Portfolio view and additional potential companion projects/programs/portfolios

## Summary of Assessment and Staff Recommendation

Each criteria and attribute presented on the following pages includes a description of the quantitative and qualitative measures relevant to the proposed project or programs, as well as, Metropolitan staff's recommendation.

## What Time-Bound Targets Does the Project/Program/Portfolio Address?



## Summary of Assessment and Staff Recommendation (see footnote on Page 2 for ranking guidelines)

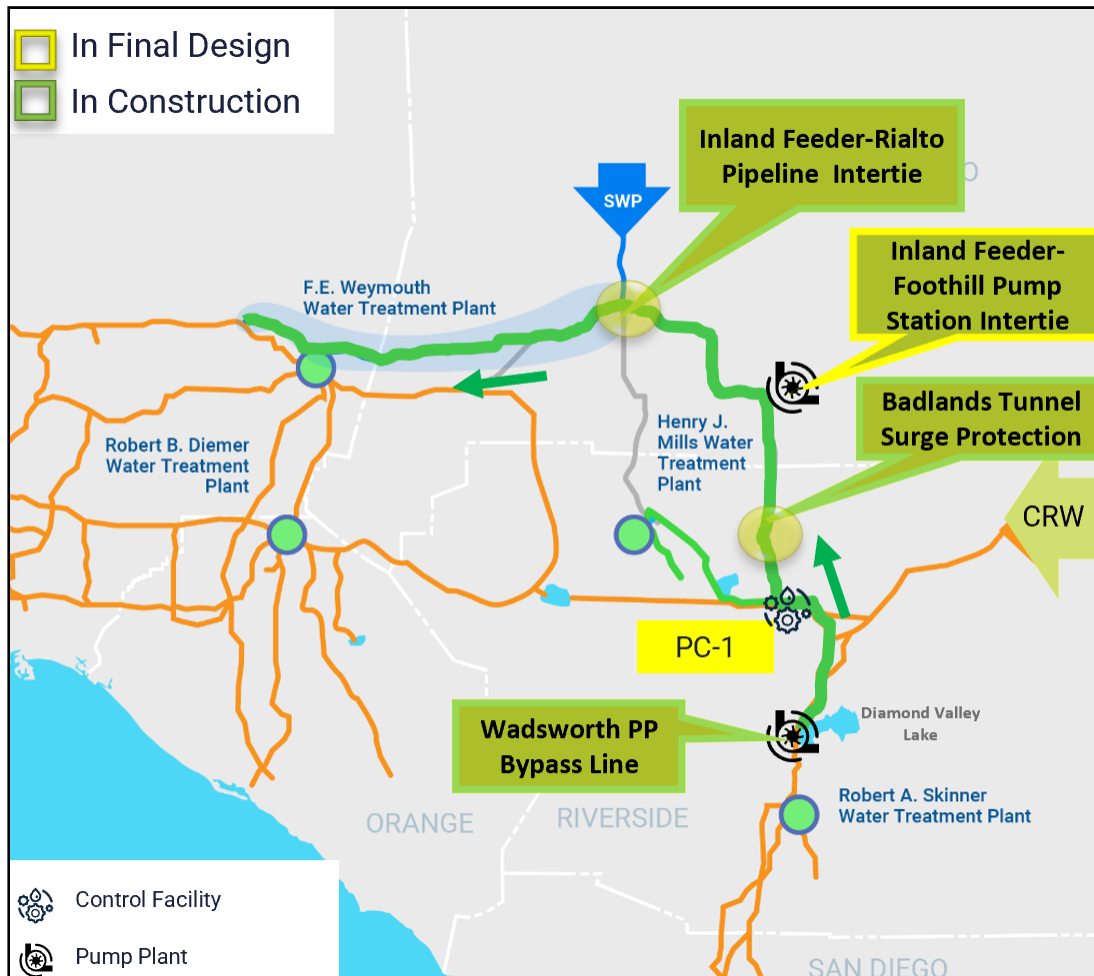
Reliability	Resilience	Financial Sustainability and Affordability	Adaptability and Flexibility	Equity	Environmental Co-Benefits

See the following pages for a detailed assessment across each Evaluative Criteria category.



# Map or Location Information Related to the Project, Program or Portfolio

## Project, Program or Portfolio Location Information




## Footnote: Ranking Guidelines Overall

These **rankings** define which level a project, program or portfolio will deliver CAMP4W objectives overall.

Exceptional
Significant
Moderate
Limited
Very Limited
Not Yet Determined / Not Applicable

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div>Reliability</div> <div>Supply Performance</div> <div>Equitable Reliability</div>	1. To what extent does it help meet regional supply reliability objectives under changing climate conditions?		
	2. To what extent does it advance equitable supply reliability?		
	3. When will it be operational? What is the useful life of the project/program/portfolio? How will benefits continue beyond the 2045 planning horizon under changing climate conditions?		
	4. Are there additional projects/programs/portfolios that could be added to improve this project/program/portfolio's effectiveness for water supply reliability?		
	5. How does this project/program/portfolio improve the water supply reliability of existing projects/programs/systems?		

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
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Key

Exceptional

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Ranking Guidelines at the Attribute Level


Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
Significant	The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.
Moderate	The project/program/portfolio only addresses some elements of the benefits being assessed by the question/statement or addresses them indirectly.
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Very Limited	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.

Overall Assessment

Overall Assessment Value

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div><b>Resilience</b> Addresses known vulnerabilities Project, Program or Portfolio's ability to perform under climate impacts</div>	1. How does it perform under identified climate vulnerabilities and hazards (e.g., extreme heat, wildfire, sea level rise, flooding)?  <i>*Drought is addressed in Reliability</i>		
	2. How does it maintain system reliability, including delivery and water quality, under identified climate vulnerabilities and hazards (e.g., extreme heat, wildfire, sea level rise, flooding)?  <i>*Drought is addressed in Reliability</i>		
	3. Describe any resilience co-benefits (e.g., seismic) achieved through this project, program, or portfolio.		

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
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Undetermined or Not Applicable

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Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div><p><b>Financial Sustainability and Affordability</b></p><p>Unit cost</p></div>	1. What is the cost impact?		
	2. If applicable, what is the unit cost/acre foot in current year dollars? For storage projects, what is the cost/capacity?		
	3. Does considering life cycle cost change the Financial Sustainability and Affordability?		
	4. Is it eligible for federal and/or state grants, tax-exempt bonds, or other funding sources or partners? If so, what are the estimated target amount(s)? Is there a local match requirement? If so, how much?		
	5. Does it have a revenue generation component that helps offset costs?		

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
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Overall Assessment

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Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div><b>Adaptability and Flexibility</b></div> <div>Flexibility of existing assets</div> <div>Ease / Complexity</div> <div>Scalability</div>	1. Describe how it works with and/or improves the flexibility of existing assets, plans, policies or programs and how it improves the ability to adjust to systemwide changes (water quality, source water, distribution interruption).		
	2. Explain how complex the day-to-day operations might be (example: staffing, maintenance, preparation).		
	3. How can it be phased (i.e., near-term value of an initial phase; using phasing to manage existing uncertainty; using phasing to allow for adjustments in the project/program/portfolio as new information is developed)?		
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Additional Information

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## Assessment

Evaluative Criteria	Attributes	Assessment	Value
 <p><b>Equity</b></p> <p>Programs for underserved communities</p> <p>Scale of community engagement</p> <p>Public health benefits</p> <p>Workforce development</p>	1. What percentage of the area served by the project, program, or portfolio includes underserved communities and what percentage of the project/program/portfolio area is in underserved communities?		
	2. What specific community benefits are included in the project, program, or portfolio?		
	3. What level of community, tribal, and partner engagement is included in the project, program, or portfolio?		
	4. Describe the extent and reasons why there is broad community support/opposition or potential for support/opposition.		

## Additional Information

<p>Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.</p>	
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## Overall Assessment

### Overall Assessment Value

Key


Exceptional	Significant	Moderate	Limited	Very Limited	Undetermined or Not Applicable
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Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div>Environmental Co-Benefits</div> <div>Greenhouse gas emissions</div> <div>Benefits Ecosystem services</div> <div>Habitat/wildlife benefits</div>	1. What are the estimated greenhouse gas emissions or enhanced carbon sequestration, and how does it impact the carbon budget, as defined by the Climate Action Plan?		
	2. In what way and to what degree does it provide additional ecosystem services?		
	3. To what extent does it protect, improve, or expand wildlife and fish habitat and/or affect flows in ways that improve ecological functions for native species?		

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
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Overall Assessment

Overall Assessment Value



# Supplemental Information

## Description

**Probability of Shortage - Baseline**

	C	D
2025	2%	4%
2030	1%	7%
2035	2%	7%
2040	2%	17%
2045	4%	28%

**Probability of Shortage - Rialto**

	C	D
2025	2%	4%
2030	1%	3%
2035	2%	5%
2040	2%	17%
2045	4%	28%

**Probability of SWP Dependent Area Shortage - Baseline**

	C	D
2025	2%	4%
2030	1%	7%
2035	2%	7%
2040	2%	10%
2045	4%	18%

**Probability of SWP Dependent Area Shortage - Rialto**

	C	D
2025	2%	4%
2030	1%	3%
2035	2%	5%
2040	2%	8%
2045	4%	11%

**Maximum Shortage (AF) - Baseline**

	C	D
2025	125,258	234,390
2030	127,992	278,580
2035	151,614	346,479
2040	108,224	847,579
2045	190,825	1,184,078

**Maximum Shortage (AF) - Rialto**

	C	D
2025	125,258	234,390
2030	127,992	191,580
2035	151,614	259,479
2040	108,224	847,579
2045	190,825	1,184,078

**Reduction from Baseline - Max Shortage (AF) - Rialto**

	C	D
2025	0	0
2030	0	-87,000
2035	0	-87,000
2040	0	0
2045	0	0

**Maximum Cumulative Shortage (AF) from 2024-2045 - Rialto**

	C	D
Baseline	204,823	3,249,542
Rialto	204,823	3,162,542
Difference	0	87,000

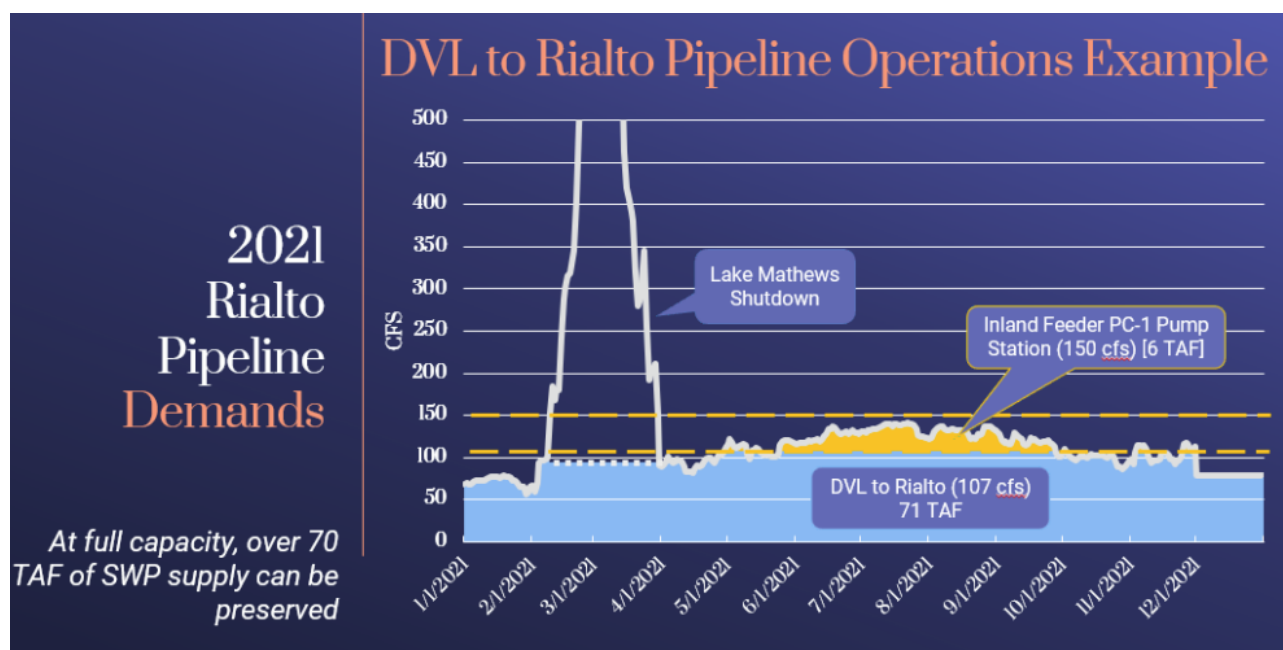
**Average Cumulative Shortage (AF) from 2024-2045 - Rialto**

	C	D
Baseline	46,452	857,627
Rialto	46,452	785,829
Difference	0	71,798



# Supplemental Information

## Description



# Metropolitan Water District of Southern California CAMP4W Comprehensive Assessment

Metropolitan is committed to meeting its mission in the face of a changing climate by developing projects and programs that advance Time-Bound Targets, consistent with the Board's priorities. This comprehensive assessment is a key part of the Climate Decision-Making Framework and will be used to support Board deliberations on which projects and programs Metropolitan should pursue.

## Project/Program/Portfolio at a Glance

Title of Project/Program/Portfolio

Status (planning/design/implementation) and Date

Capacity (if applicable)

Capital Cost

Operation/Maintenance or Ongoing Cost

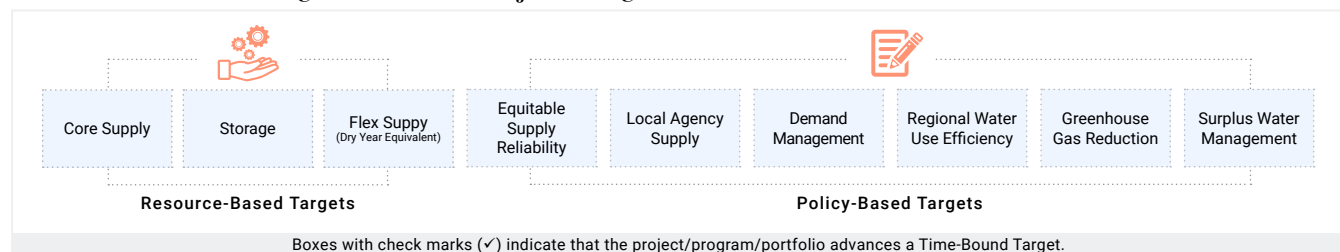
Description and how the project/program/portfolio supports water supplies, reliability and/or delivery

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## Summary of Assessment and Staff Recommendation

Each criteria and attribute presented on the following pages includes a description of the quantitative and qualitative measures relevant to the proposed project or programs, as well as, Metropolitan staff's recommendation.

## What Time-Bound Targets Does the Project/Program/Portfolio Address?



## Summary of Assessment and Staff Recommendation (see footnote on Page 2 for ranking guidelines)

Reliability	Resilience	Financial Sustainability and Affordability	Adaptability and Flexibility	Equity	Environmental Co-Benefits

See the following pages for a detailed assessment across each Evaluative Criteria category.

# Map or Location Information Related to the Project, Program or Portfolio


## Project, Program or Portfolio Location Information

## Footnote: Ranking Guidelines Overall

These **rankings** define which level a project, program or portfolio will deliver CAMP4W objectives overall.

	Exceptional
	Significant
	Moderate
	Limited
	Very Limited
	Not Yet Determined / Not Applicable

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div><div><b>Reliability</b> Supply Performance Equitable Reliability</div></div>	1. To what extent does it help meet regional supply reliability objectives under changing climate conditions?		
	2. To what extent does it advance equitable supply reliability?		
	3. When will it be operational? What is the useful life of the project/program/portfolio? How will benefits continue beyond the 2045 planning horizon under changing climate conditions?		
	4. Are there additional projects/programs/portfolios that could be added to improve this project/program/portfolio's effectiveness for water supply reliability?		
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Additional Information

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Overall Assessment

Overall Assessment Value

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div><b>Resilience</b> Addresses known vulnerabilities Project, Program or Portfolio's ability to perform under climate impacts</div>	1. How does it perform under identified climate vulnerabilities and hazards (e.g., extreme heat, wildfire, sea level rise, flooding)?  <i>*Drought is addressed in Reliability</i>		
	2. How does it maintain system reliability, including delivery and water quality, under identified climate vulnerabilities and hazards (e.g., extreme heat, wildfire, sea level rise, flooding)?  <i>*Drought is addressed in Reliability</i>		
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Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div><p><b>Financial Sustainability and Affordability</b></p><p>Unit cost</p></div>	1. What is the cost impact?		
	2. If applicable, what is the unit cost/acre foot in current year dollars? For storage projects, what is the cost/capacity?		
	3. Does considering life cycle cost change the Financial Sustainability and Affordability?		
	4. Is it eligible for federal and/or state grants, tax-exempt bonds, or other funding sources or partners? If so, what are the estimated target amount(s)? Is there a local match requirement? If so, how much?		
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Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div><b>Adaptability and Flexibility</b></div> <div>Flexibility of existing assets</div> <div>Ease / Complexity</div> <div>Scalability</div>	1. Describe how it works with and/or improves the flexibility of existing assets, plans, policies or programs and how it improves the ability to adjust to systemwide changes (water quality, source water, distribution interruption).		
	2. Explain how complex the day-to-day operations might be (example: staffing, maintenance, preparation).		
	3. How can it be phased (i.e., near-term value of an initial phase; using phasing to manage existing uncertainty; using phasing to allow for adjustments in the project/program/portfolio as new information is developed)?		
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## Assessment

Evaluative Criteria	Attributes	Assessment	Value
 <p><b>Equity</b></p> <p>Programs for underserved communities</p> <p>Scale of community engagement</p> <p>Public health benefits</p> <p>Workforce development</p>	1. What percentage of the area served by the project, program, or portfolio includes underserved communities and what percentage of the project/program/portfolio area is in underserved communities?		
	2. What specific community benefits are included in the project, program, or portfolio?		
	3. What level of community, tribal, and partner engagement is included in the project, program, or portfolio?		
	4. Describe the extent and reasons why there is broad community support/opposition or potential for support/opposition.		

## Additional Information

<p>Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.</p>	
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## Overall Assessment

### Overall Assessment Value

Key

Exceptional	Significant	Moderate	Limited	Very Limited	Undetermined or Not Applicable
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## Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
Significant	The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.
Moderate	The project/program/portfolio only addresses some elements of the benefits being assessed by the question/statement or addresses them indirectly.
Limited	The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.
Very Limited	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.



Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div>Environmental Co-Benefits</div> <div>Greenhouse gas emissions</div> <div>Benefits Ecosystem services</div> <div>Habitat/wildlife benefits</div>	1. What are the estimated greenhouse gas emissions or enhanced carbon sequestration, and how does it impact the carbon budget, as defined by the Climate Action Plan?		
	2. In what way and to what degree does it provide additional ecosystem services?		
	3. To what extent does it protect, improve, or expand wildlife and fish habitat and/or affect flows in ways that improve ecological functions for native species?		

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
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Key

Exceptional

Significant

Moderate

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Very Limited

Undetermined or Not Applicable

Ranking Guidelines at the Attribute Level

Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
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Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.

Overall Assessment

Overall Assessment Value

# Supplemental Information

## Description

**Probability of Shortage - Baseline**

	C	D
2025	2%	4%
2030	1%	7%
2035	2%	7%
2040	2%	17%
2045	4%	28%

**Probability of Shortage - Turf Replacement**

	C	D
2025	2%	3%
2030	1%	6%
2035	2%	7%
2040	1%	16%
2045	2%	26%

**Probability of SWP Dependent Area Shortage - Baseline**

	C	D
2025	2%	4%
2030	1%	7%
2035	2%	7%
2040	2%	10%
2045	4%	18%

**Probability of SWP Dependent Area Shortage - Turf Replacement**

	C	D
2025	2%	3%
2030	1%	6%
2035	2%	7%
2040	1%	10%
2045	2%	15%

**Maximum Shortage (AF) - Baseline**

	C	D
2025	125,258	234,390
2030	127,992	278,580
2035	151,614	346,479
2040	108,224	847,579
2045	190,825	1,184,078

**Maximum Shortage (AF) - Turf Replacement**

	C	D
2025	115,075	224,207
2030	115,148	266,539
2035	49,689	331,218
2040	39,180	749,243
2045	118,412	1,168,674

**Reduction from Baseline - Max Shortage (AF) - Turf Replacement**

	C	D
2025	-10,183	-10,183
2030	-12,844	-12,041
2035	-101,925	-15,261
2040	-69,044	-98,336
2045	-72,413	-15,404

**Maximum Cumulative Shortage (AF) from 2024-2045 - Turf Replacement**

	C	D
Baseline	204,823	3,249,542
Turf	122,885	2,882,179
Difference	81,938	367,364

**Average Cumulative Shortage (AF) from 2024-2045 - Turf Replacement**

	C	D
Baseline	46,452	857,627
Turf	27,031	721,421
Difference	19,421	136,206

# Metropolitan Water District of Southern California CAMP4W Comprehensive Assessment

Metropolitan is committed to meeting its mission in the face of a changing climate by developing projects and programs that advance Time-Bound Targets, consistent with the Board's priorities. This comprehensive assessment is a key part of the Climate Decision-Making Framework and will be used to support Board deliberations on which projects and programs Metropolitan should pursue.

## Project/Program/Portfolio at a Glance

Title of Project/Program/Portfolio

Status (planning/design/implementation) and Date

Capacity (if applicable)

Capital Cost

Operation/Maintenance or Ongoing Cost

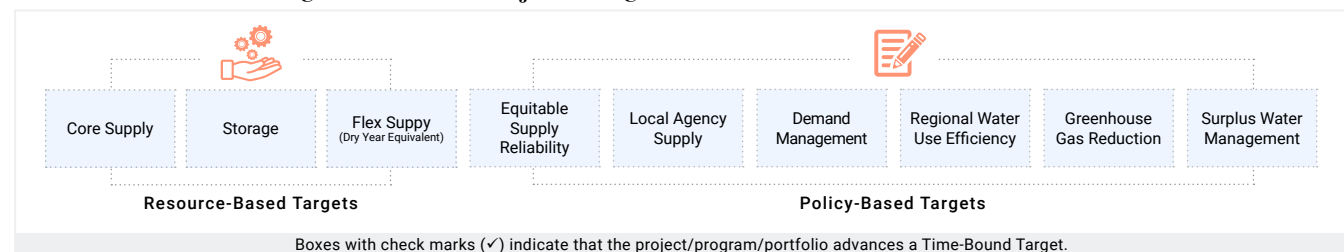
Description and how the project/program/portfolio supports water supplies, reliability and/or delivery

Portfolio view and additional potential companion projects/programs/portfolios

## Summary of Assessment and Staff Recommendation

Each criteria and attribute presented on the following pages includes a description of the quantitative and qualitative measures relevant to the proposed project or programs, as well as, Metropolitan staff's recommendation.

## What Time-Bound Targets Does the Project/Program/Portfolio Address?



## Summary of Assessment and Staff Recommendation (see footnote on Page 2 for ranking guidelines)

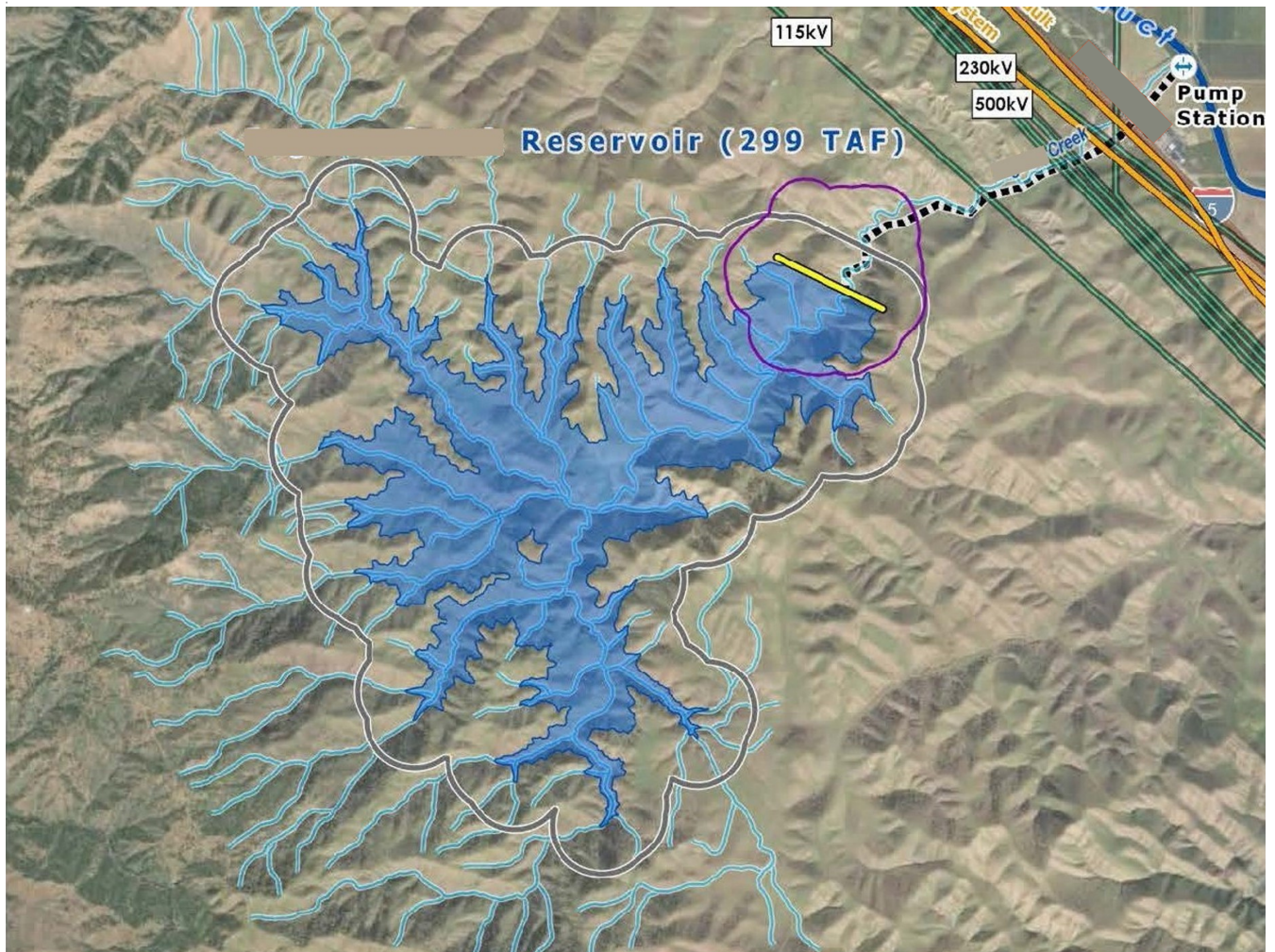
Reliability	Resilience	Financial Sustainability and Affordability	Adaptability and Flexibility	Equity	Environmental Co-Benefits

See the following pages for a detailed assessment across each Evaluative Criteria category.



# Map or Location Information Related to the Project, Program or Portfolio

## Project, Program or Portfolio Location Information




## Footnote: Ranking Guidelines Overall

These **rankings** define which level a project, program or portfolio will deliver CAMP4W objectives overall.

	Exceptional
	Significant
	Moderate
	Limited
	Very Limited
	Not Yet Determined / Not Applicable

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div><div><b>Reliability</b> Supply Performance Equitable Reliability</div></div>	1. To what extent does it help meet regional supply reliability objectives under changing climate conditions?		
	2. To what extent does it advance equitable supply reliability?		
	3. When will it be operational? What is the useful life of the project/program/portfolio? How will benefits continue beyond the 2045 planning horizon under changing climate conditions?		
	4. Are there additional projects/programs/portfolios that could be added to improve this project/program/portfolio's effectiveness for water supply reliability?		
	5. How does this project/program/portfolio improve the water supply reliability of existing projects/programs/systems?		

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
---	--

Key

Exceptional

Significant

Moderate

Limited

Very Limited

Undetermined or Not Applicable

Ranking Guidelines at the Attribute Level


Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
Significant	The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.
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Very Limited	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.

Overall Assessment

Overall Assessment Value

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div><b>Resilience</b> Addresses known vulnerabilities Project, Program or Portfolio's ability to perform under climate impacts</div>	1. How does it perform under identified climate vulnerabilities and hazards (e.g., extreme heat, wildfire, sea level rise, flooding)?  <i>*Drought is addressed in Reliability</i>		
	2. How does it maintain system reliability, including delivery and water quality, under identified climate vulnerabilities and hazards (e.g., extreme heat, wildfire, sea level rise, flooding)?  <i>*Drought is addressed in Reliability</i>		
	3. Describe any resilience co-benefits (e.g., seismic) achieved through this project, program, or portfolio.		

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
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Overall Assessment

Overall Assessment Value

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The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.

Undetermined or Not Applicable

The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.



Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div><p><b>Financial Sustainability and Affordability</b></p><p>Unit cost</p></div>	1. What is the cost impact?		
	2. If applicable, what is the unit cost/acre foot in current year dollars? For storage projects, what is the cost/capacity?		
	3. Does considering life cycle cost change the Financial Sustainability and Affordability?		
	4. Is it eligible for federal and/or state grants, tax-exempt bonds, or other funding sources or partners? If so, what are the estimated target amount(s)? Is there a local match requirement? If so, how much?		
	5. Does it have a revenue generation component that helps offset costs?		

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
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Overall Assessment

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Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div><b>Adaptability and Flexibility</b></div> <div>Flexibility of existing assets</div> <div>Ease / Complexity</div> <div>Scalability</div>	1. Describe how it works with and/or improves the flexibility of existing assets, plans, policies or programs and how it improves the ability to adjust to systemwide changes (water quality, source water, distribution interruption).		
	2. Explain how complex the day-to-day operations might be (example: staffing, maintenance, preparation).		
	3. How can it be phased (i.e., near-term value of an initial phase; using phasing to manage existing uncertainty; using phasing to allow for adjustments in the project/program/portfolio as new information is developed)?		
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Overall Assessment

Overall Assessment Value

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## Assessment

Evaluative Criteria	Attributes	Assessment	Value
 <p><b>Equity</b></p> <p>Programs for underserved communities</p> <p>Scale of community engagement</p> <p>Public health benefits</p> <p>Workforce development</p>	1. What percentage of the area served by the project, program, or portfolio includes underserved communities and what percentage of the project/program/portfolio area is in underserved communities?		
	2. What specific community benefits are included in the project, program, or portfolio?		
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## Overall Assessment

### Overall Assessment Value

Key


Exceptional	Significant	Moderate	Limited	Very Limited	Undetermined or Not Applicable
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Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div>Environmental Co-Benefits</div> <div>Greenhouse gas emissions</div> <div>Benefits Ecosystem services</div> <div>Habitat/wildlife benefits</div>	1. What are the estimated greenhouse gas emissions or enhanced carbon sequestration, and how does it impact the carbon budget, as defined by the Climate Action Plan?		
	2. In what way and to what degree does it provide additional ecosystem services?		
	3. To what extent does it protect, improve, or expand wildlife and fish habitat and/or affect flows in ways that improve ecological functions for native species?		

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
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Overall Assessment

Overall Assessment Value

# Supplemental Information

## Description

**Probability of Shortage - Baseline**

	C	D
2025	2%	4%
2030	1%	7%
2035	2%	7%
2040	2%	17%
2045	4%	28%

**Probability of Shortage - Reservoir**

	C	D
2025	2%	4%
2030	1%	7%
2035	1%	6%
2040	1%	15%
2045	1%	25%

**Probability of SWP Dependent Area Shortage - Baseline**

	C	D
2025	2%	4%
2030	1%	7%
2035	2%	7%
2040	2%	10%
2045	4%	18%

**Probability of SWP Dependent Area Shortage - Reservoir**

	C	D
2025	2%	4%
2030	1%	7%
2035	1%	6%
2040	1%	8%
2045	1%	13%

**Maximum Shortage (AF) - Baseline**

	C	D
2025	125,258	234,390
2030	127,992	278,580
2035	151,614	346,479
2040	108,224	847,579
2045	190,825	1,184,078

**Maximum Shortage (AF) - Reservoir**

	C	D
2025	125,258	234,390
2030	127,992	278,580
2035	51,614	341,245
2040	8,224	761,895
2045	90,825	1,098,078

**Reduction from Baseline - Max Shortage (AF) - Reservoir**

	C	D
2025	0	0
2030	0	0
2035	-100,000	-5,234
2040	-100,000	-85,684
2045	-100,000	-86,000

**Maximum Cumulative Shortage (AF) from 2024-2045 - Reservoir**

	C	D
Baseline	204,823	3,249,542
Reservoir	136,465	2,949,542
Difference	68,358	300,000

**Average Cumulative Shortage (AF) from 2024-2045 - Reservoir**

	C	D
Baseline	46,452	857,627
Reservoir	24,057	732,300
Difference	22,395	125,328

# Metropolitan Water District of Southern California CAMP4W Comprehensive Assessment

Metropolitan is committed to meeting its mission in the face of a changing climate by developing projects and programs that advance Time-Bound Targets, consistent with the Board's priorities. This comprehensive assessment is a key part of the Climate Decision-Making Framework and will be used to support Board deliberations on which projects and programs Metropolitan should pursue.

## Project/Program/Portfolio at a Glance

Title of Project/Program/Portfolio

Status (planning/design/implementation) and Date

Capacity (if applicable)

Capital Cost

Operation/Maintenance or Ongoing Cost

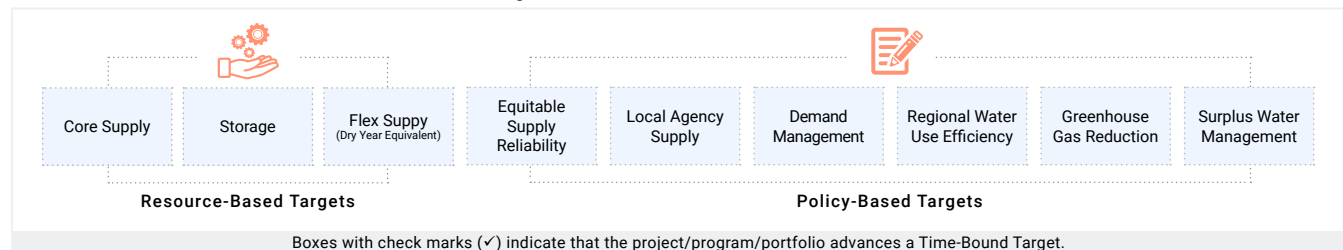
Description and how the project/program/portfolio supports water supplies, reliability and/or delivery

Portfolio view and additional potential companion projects/programs/portfolios

## Summary of Assessment and Staff Recommendation

Each criteria and attribute presented on the following pages includes a description of the quantitative and qualitative measures relevant to the proposed project or programs, as well as, Metropolitan staff's recommendation.

## What Time-Bound Targets Does the Project/Program/Portfolio Address?



## Summary of Assessment and Staff Recommendation (see footnote on Page 2 for ranking guidelines)

Reliability	Resilience	Financial Sustainability and Affordability	Adaptability and Flexibility	Equity	Environmental Co-Benefits

See the following pages for a detailed assessment across each Evaluative Criteria category.



# Map or Location Information Related to the Project, Program or Portfolio

## Project, Program or Portfolio Location Information




## Footnote: Ranking Guidelines Overall

These **rankings** define which level a project, program or portfolio will deliver CAMP4W objectives overall.

Exceptional
Significant
Moderate
Limited
Very Limited
Not Yet Determined / Not Applicable

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div><div><b>Reliability</b> Supply Performance Equitable Reliability</div></div>	1. To what extent does it help meet regional supply reliability objectives under changing climate conditions?		
	2. To what extent does it advance equitable supply reliability?		
	3. When will it be operational? What is the useful life of the project/program/portfolio? How will benefits continue beyond the 2045 planning horizon under changing climate conditions?		
	4. Are there additional projects/programs/portfolios that could be added to improve this project/program/portfolio's effectiveness for water supply reliability?		
	5. How does this project/program/portfolio improve the water supply reliability of existing projects/programs/systems?		

Additional Information

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Overall Assessment

Overall Assessment Value

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div><b>Resilience</b> Addresses known vulnerabilities Project, Program or Portfolio's ability to perform under climate impacts</div>	1. How does it perform under identified climate vulnerabilities and hazards (e.g., extreme heat, wildfire, sea level rise, flooding)?  <i>*Drought is addressed in Reliability</i>		
	2. How does it maintain system reliability, including delivery and water quality, under identified climate vulnerabilities and hazards (e.g., extreme heat, wildfire, sea level rise, flooding)?  <i>*Drought is addressed in Reliability</i>		
	3. Describe any resilience co-benefits (e.g., seismic) achieved through this project, program, or portfolio.		

Additional Information

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Overall Assessment

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The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div><p><b>Financial Sustainability and Affordability</b></p><p>Unit cost</p></div>	1. What is the cost impact?		
	2. If applicable, what is the unit cost/acre foot in current year dollars? For storage projects, what is the cost/capacity?		
	3. Does considering life cycle cost change the Financial Sustainability and Affordability?		
	4. Is it eligible for federal and/or state grants, tax-exempt bonds, or other funding sources or partners? If so, what are the estimated target amount(s)? Is there a local match requirement? If so, how much?		
	5. Does it have a revenue generation component that helps offset costs?		

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
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Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div><b>Adaptability and Flexibility</b></div> <div>Flexibility of existing assets</div> <div>Ease / Complexity</div> <div>Scalability</div>	1. Describe how it works with and/or improves the flexibility of existing assets, plans, policies or programs and how it improves the ability to adjust to systemwide changes (water quality, source water, distribution interruption).		
	2. Explain how complex the day-to-day operations might be (example: staffing, maintenance, preparation).		
	3. How can it be phased (i.e., near-term value of an initial phase; using phasing to manage existing uncertainty; using phasing to allow for adjustments in the project/program/portfolio as new information is developed)?		
	4. What is the implementation risk and/or complexity of implementation?		

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
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Key

Exceptional

Significant

Moderate

Limited

Very Limited

Undetermined or Not Applicable

Ranking Guidelines at the Attribute Level


Defining to which level a project, program or portfolio will deliver CAMP4W objectives for each attribute category.

Exceptional	The project/program/portfolio directly and completely addresses the benefits being assessed by the question/statement.
Significant	The project/program/portfolio directly addresses most elements of the benefits being assessed by the question/statement.
Moderate	The project/program/portfolio only addresses some elements of the benefits being assessed by the question/statement or addresses them indirectly.
Limited	The project/program/portfolio only addresses few or minor elements of the benefits being assessed by the question/statement or provides minor indirect benefits.
Very Limited	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.

Overall Assessment

Overall Assessment Value

## Assessment

Evaluative Criteria	Attributes	Assessment	Value
 <p><b>Equity</b></p> <p>Programs for underserved communities</p> <p>Scale of community engagement</p> <p>Public health benefits</p> <p>Workforce development</p>	1. What percentage of the area served by the project, program, or portfolio includes underserved communities and what percentage of the project/program/portfolio area is in underserved communities?		
	2. What specific community benefits are included in the project, program, or portfolio?		
	3. What level of community, tribal, and partner engagement is included in the project, program, or portfolio?		
	4. Describe the extent and reasons why there is broad community support/opposition or potential for support/opposition.		

## Additional Information

<p>Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.</p>	
--	--

## Overall Assessment

### Overall Assessment Value

Key


Exceptional	Significant	Moderate	Limited	Very Limited	Undetermined or Not Applicable
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Very Limited	The project/program/portfolio does not provide any or very limited benefits to those being assessed by the question/statement.
Undetermined or Not Applicable	The ranking for this project/program/portfolio is not determined at this time or the attribute is not applicable.

Assessment

Evaluative Criteria	Attributes	Assessment	Value
<div></div> <div>Environmental Co-Benefits</div> <div>Greenhouse gas emissions</div> <div>Benefits Ecosystem services</div> <div>Habitat/wildlife benefits</div>	1. What are the estimated greenhouse gas emissions or enhanced carbon sequestration, and how does it impact the carbon budget, as defined by the Climate Action Plan?		
	2. In what way and to what degree does it provide additional ecosystem services?		
	3. To what extent does it protect, improve, or expand wildlife and fish habitat and/or affect flows in ways that improve ecological functions for native species?		

Additional Information

Please describe how the proposed project, program, or portfolio advances the CAMP4W Time-Bound Targets, develops new or improves existing partnerships or collaborations, and builds on existing plans, policies and initiatives at Metropolitan.	
---	--

Key

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Overall Assessment

Overall Assessment Value



Subcommittee on Long-Term Regional Planning Processes  
and Business Modeling

## Climate Decision-Making Framework Project Assessments

Item 3b

November 20, 2024

# Climate Decision- Making Framework Project Assessments



November 20, 2024

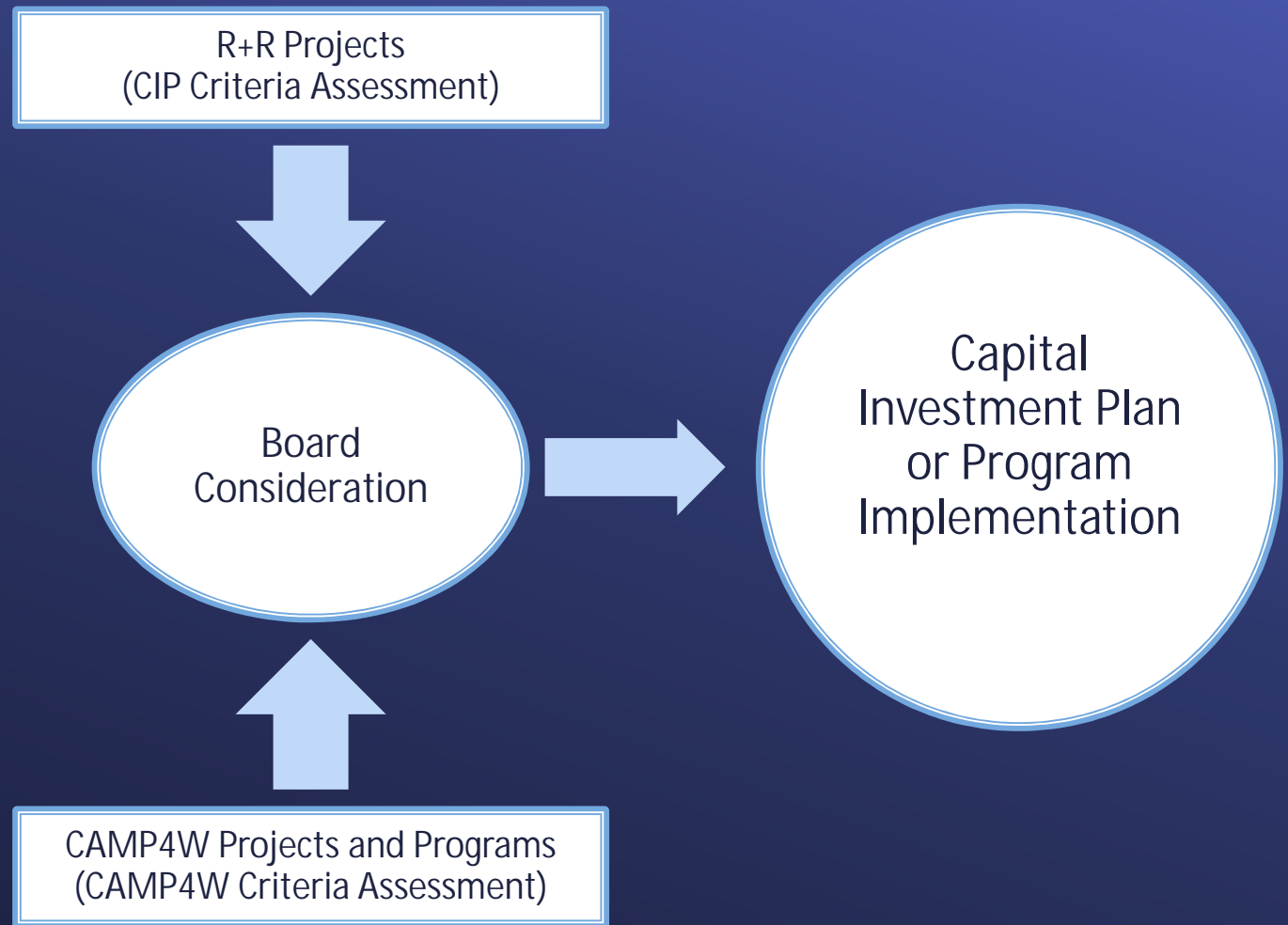
## Discussion Outline

- 1) Context of Project Assessments
- 2) CAMP4W Assessment Methodology
  - Updated Assessment Form
  - Guidance Document – **NEW**
- 3) Test Assessment Methodology Lessons Learned
- 4) Review: Four CAMP4W Test Assessments
  - Storage: Hypothetical Central Valley Reservoir
  - Conveyance: DVL-Rialto Delivery
  - Program/Supply: Turf Replacement Program
  - Energy: Weymouth Battery Energy Storage System
- 5) Working Memos Update

Subcommittee on Long-Term Regional Planning Processes and Business Model

Item # 3b Slide 2

Which  
Investments  
will be  
Evaluated in  
the CAMP4W  
Process?



## Which Investments will be Evaluated in the CAMP4W Process?

Potential questions where a “yes” answer would mean a project or program will be considered through CAMP4W:

- Is the project or program providing a new core supply, flex supply, or storage, or is the project or program enabling a new core supply, flex supply, or storage?
- Is the project or program addressing a known vulnerability to an asset(s) and does it involve improvements beyond what would be required to perform traditional R&R for that asset?
- Does the project or program exceed a certain flow-based threshold (CFS or AFY) or cost threshold (capital or O&M cost)?



November 20, 2024

Subcommittee on Long-Term Regional Planning Processes and Business Model

Item # 3b Slide 4



# Potential Projects and Programs for Future CAMP4W Assessment (not exclusive)

## Core Supply

- Pure Water Phase I & II
- Delta Conveyance Project
- Groundwater Desalination
- Ocean Desalination
- Conservation / Efficiency Programs

## Surface Water Storage

- Sites Reservoir
- San Joaquin Phase I & II
- Castaic Lake
- In-region Storage

## Groundwater Storage

- AVEK Phase II
- Central Valley Storage
- Hayfield
- Surplus Water Management

## Flexibility and Resilience

- Sepulveda Pumping Phase II
- East-West Conveyance
- AVEK to West Side

## Energy Sustainability

- CRA Pump Storage
- DVL Pump Storage
- In & Out of Region Solar



# CAMP4W Assessment Methodology



November 20, 2024

## Attribute Questions Refined

### Reliability

- Considers regional and equitable supply reliability, including quantitative analysis based on IRP modeling
- Considers benefits beyond planning horizon, potential companion projects and how it integrates with existing infrastructure/programs

### Resilience

- Reframed questions; includes resilience co-benefits (i.e. seismic)

### Financial Sustainability & Affordability

- Reframed questions; acknowledges different ways to look at different types of projects
- Considers revenue generation potential

### Adaptability & Flexibility

- Focus on how it integrates with existing system/operations
- Considers phasing potential

### Equity

- Clarifies what is being measured

Subcommittee on Long-Term Regional Planning Processes and Business Model  
Environmental Co-Benefits

Item # 3b Slide 6

# CAMP4W Assessment Methodology



## Additional Form Refinements

- Provides ample space for additional information, data, considerations
- Includes justification for overall assessment determination in each criteria category
- Improves readability of colors and rankings
- Developed CAMP4W Comprehensive Assessment Guidance Document

## CAMP4W Comprehensive Assessment Guidance Document

### Guidance Document Informs Evaluation Committee

- Assigns subject matter experts to the Evaluation Committee
- Provides guidance for each attribute question and provides examples where appropriate
- Lists potential sources of data and information for each Evaluative Criteria
- Includes Glossary of Terms



# CAMP4W Assessment Methodology Lessons Learned



November 20, 2024

## Test Assessments

- Form generally worked for different project types
- Not all attribute questions are relevant for every type of project
  - Ex: Reliability analysis may only be relevant to water supply projects and programs
- Financial data may speak for itself (i.e. may not be appropriate to assign a "value")
- Hypothetical projects are difficult to assess in many categories
- Most projects and programs will require multiple evaluations; baseline will adjust over time with Needs Assessment updates
- Projects will be re-evaluated based on changing conditions or project life cycle

Subcommittee on Long-Term Regional Planning Processes and Business Model

Item # 3b Slide 9

CAMP4W  
Assessment  
Methodology  
Member Agency  
Comments  
Nov. 12 meeting



November 20, 2024

## Member Agency Feedback for Consideration

- 1) General support for Comprehensive Assessment Methodology that includes quantitative and qualitative measures
- 2) Quantitatively assess progress towards Time-Bound Targets on Summary Page
- 3) Use Additional Information sections to point to past Board actions and policies as well as relevance to Time-Bound Targets
- 4) Include reference to actions related to state or local mandates
- 5) Add cost per acre-foot to first page where available
- 6) Discuss companion projects where appropriate

Submitted by: [Name], [Agency], [Date] | [Page Number]

CAMP4W  
Assessment  
Methodology  
Member Agency  
Comments  
Nov. 12 meeting



November 20, 2024

## Member Agency Feedback for Consideration (cont'd)

- 7) Request that quantitative analysis under Reliability Criteria include historic dry and wet weather sequences as well as IRPSIM modeling information
- 8) Interest in seeing data for all four IRP scenarios (A, B, C, D)
- 9) Provide more specificity on how project addresses SWPDA reliability, also acknowledging that additional regional benefits depend on climate conditions / supply availability
- 10) For Turf Replacement Program, add information on summary page about the yield
- 11) Capture potential cost savings related to a project or program (i.e. BESS project)

Subcommittee on Long-Term Regional Planning Processes and Business Model

Item # 3b Slide 11

# Test Comprehensive

Questions to Consider  
during Discussions

- Do the Test Assessments provide the breadth of information, and the level of detail required to make investment decisions?
- Are there any key data points/questions missing?
- Please share key takeaways in reviewing the Test Assessments.



## Test Comprehensive Assessments

- 1) Storage: Hypothetical Central Valley Reservoir
- 2) Conveyance: DVL – Rialto Delivery
- 3) Program/Supply: Turf Replacement Program
- 4) Energy: Weymouth Battery Energy Storage System





# Working Memos Update

## Working Memo #7: Integrating Climate Adaptation

- Expanding scope to address comments

## Working Memo #8: Signposts and Adaptive Management

- Almost final; to be distributed this month

## Working Memo #9: Assessment Methodology

- Minor changes made; posted with Nov. Task Force documents
- Updated Form and Guidance Document attached

Revisions  
to Working  
Memo #7  
Integrating Climate  
Change in Metropolitan  
Planning, Processes and  
Implementation

## Examples of Comments Received on Working Memo #7

- Clarify how climate adaptation will be integrated throughout Metropolitan processes and programs
- Explain how Metropolitan will integrate needs assessments in early stages and how this will influence project identification and the need to avoid under or over developing
- Clarify how Member Agency feedback will be included in the process of project identification



Revisions  
to Working  
Memo #7  
Integrating Climate  
Change in Metropolitan  
Planning, Processes and  
Implementation

## Examples of Comments Received on Working Memo #7 (cont'd)

- Explain how portfolios will be assessed
- Better define considerations surrounding equity
- Explain the frequency and intention of updating the existing plans identified in the draft memo and how data will be incorporated into the Time-Bound Targets, Signposts, and Evaluative Criteria
- Provide more details on certain plans and how they will be used



## Annual Water Resources Needs Assessment

Signpost Data Collection and Evaluation

Local/MA Supply Survey

Storage Condition Assessment

Gap Analysis Check-In

## CAMP4W Annual Report

Signposts Data and Trends

Targets Progress and Adjustments

Implementation Progress and Recs

## Ongoing

Document and Prepare for Potential Updates to IRP Planning Scenarios

## 5-Year Planning Cycle Update

Update Scenario Assumptions and Planning Model Inputs

Update reliability Analysis (supply/demand gap)

Update Needs Assessment

Board Approval

## Example Content for Working Memo #8

## CAMP4W Interface

Update Time-Bound Targets\*

Informs CAMP4W Implementation

\* The Time-Bound Targets may be updated more frequently at the discretion of the Board and CAMP4W process

# 2024-25 Schedule of CAMP4W Discussions









## Subcommittee on Long-Term Regional Planning Processes and Business Modeling

# Update on Business Model Refinement Effort

Item 3c

November 20, 2024

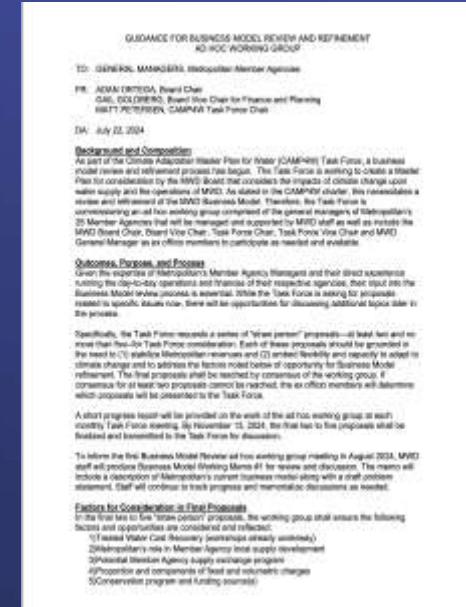
# Today's Update

- Background
- Introductory Comments by MWD Interim GM
- Business Model Liaison Group
- General Progress Overview
- October 10<sup>th</sup> and 11th Retreat
- November 15<sup>th</sup> Workshop
- Next Steps
- Discussion



# Background

## Board Leadership provided “Guidance for Business Model Review and Refinement Ad Hoc Working Group”



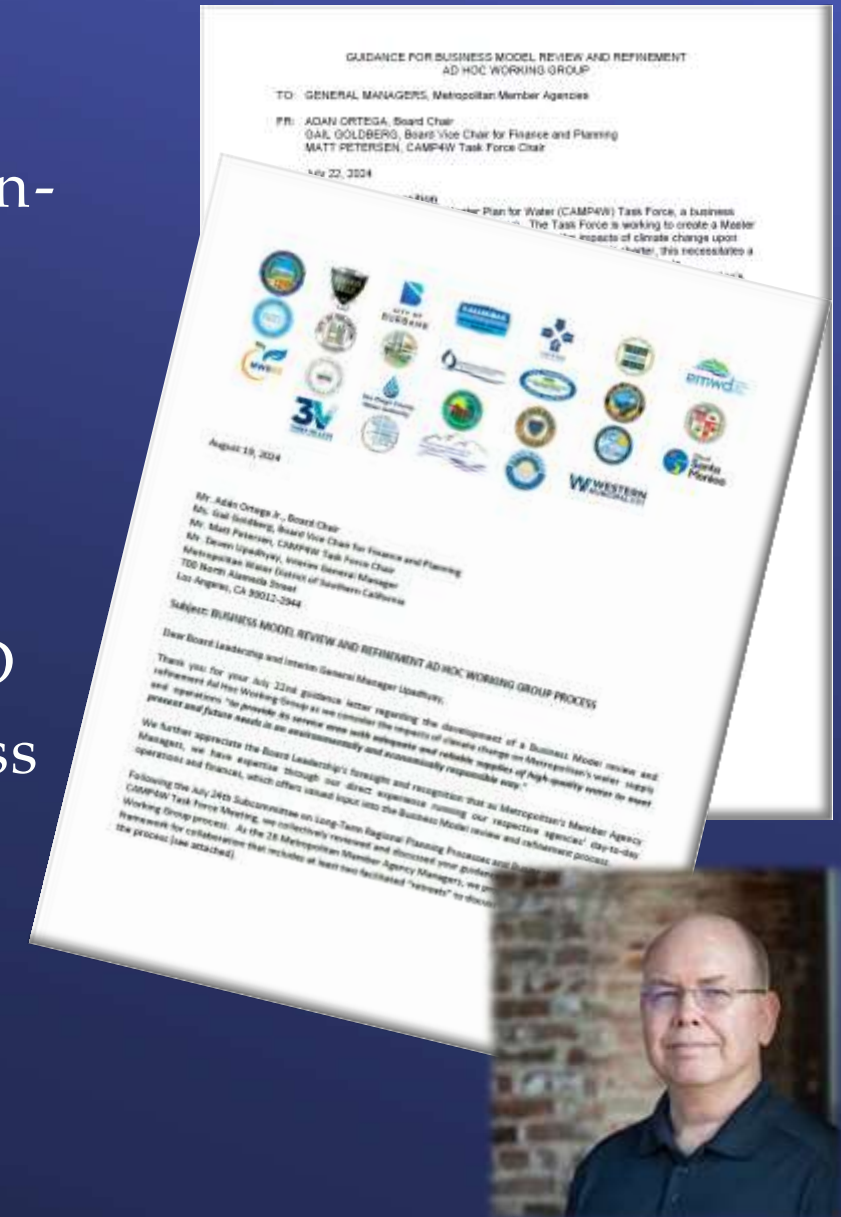
### Factors for Consideration in Final Proposals

In the final two to five “straw person” proposals, the working group shall ensure the following factors and opportunities are considered and reflected:

- 1) Treated Water Cost Recovery (workshops already underway)
- 2) Metropolitan’s role in Member Agency local supply development
- 3) Potential Member Agency supply exchange program
- 4) Proportion and components of fixed and volumetric charges
- 5) Conservation program and funding source(s)

# Background

- Ken Kirby, PhD, PE, Evotoco LLC, hired and on-boarded as professional facilitator for process
- 26 Member Agencies formed Ad Hoc Working Group that includes MWD staff and agreed on process



## Business Model Liaison Group

Anselmo Collins and David Pettijohn, LADWP

Craig Miller, Western Municipal Water District

David Pedersen, Las Virgenes Municipal Water District

Harvey De La Torre and Melissa Baum-Haley, MWDOC

Kristine McCaffrey, Calleguas Municipal Water District

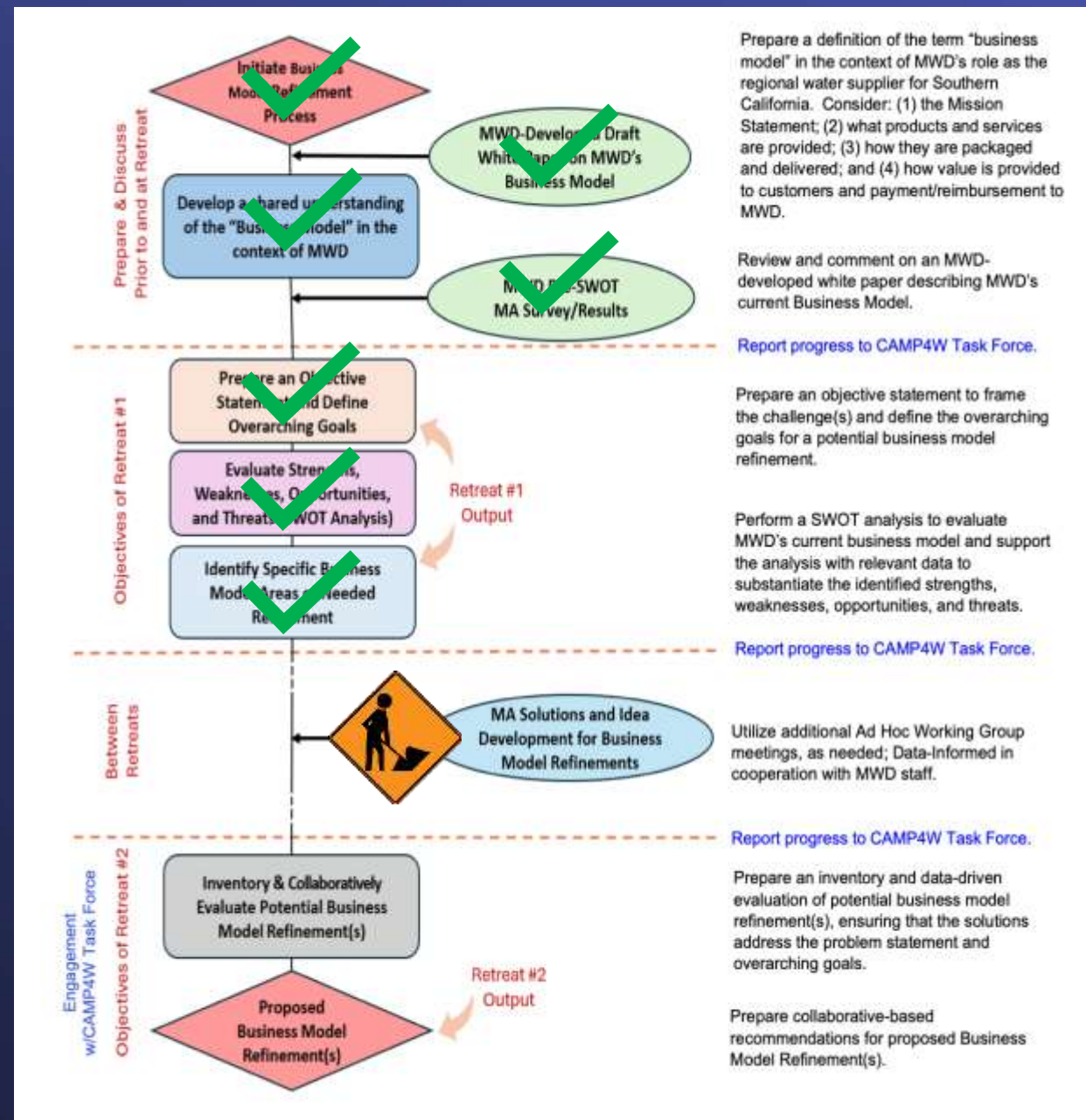
Stacie Takeguchi, City of Pasadena

Mohsen Mortada and Jon Rubin, MWD

Ken Kirby, Evotoco LLC



# General Progress Overview





## October 10<sup>th</sup> and 11<sup>th</sup> Retreat

- Opening remarks by Board Vice-Chair Gail Goldberg
- Approach to collaboration
- Discussion of current MWD business model



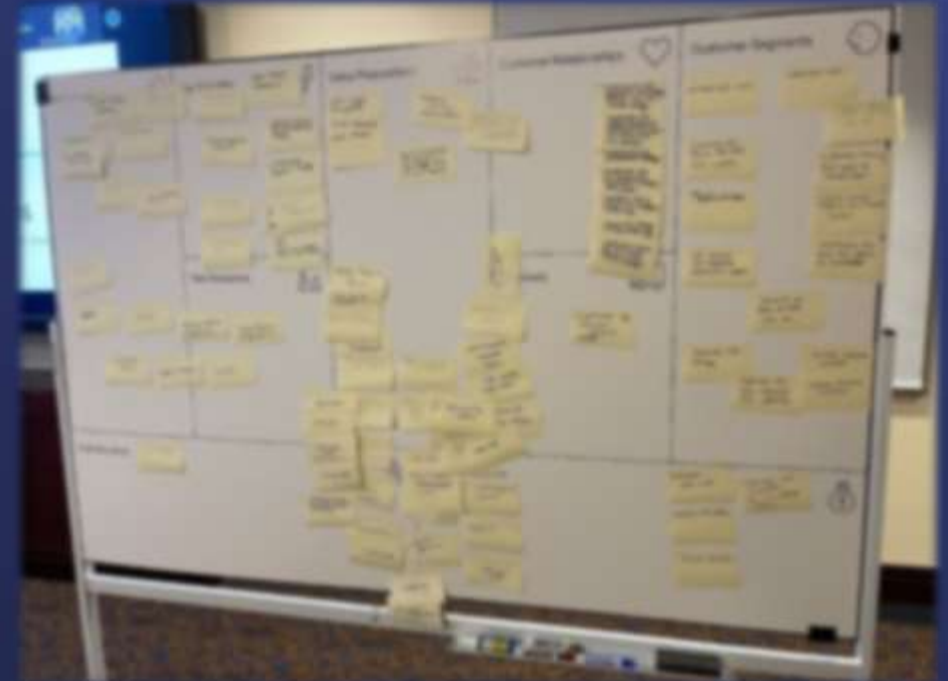
## October 10<sup>th</sup> and 11<sup>th</sup> Retreat (con't)

- Analysis of strengths, weaknesses, opportunities and threats (SWOT)



# November 15<sup>th</sup> Workshop

- Review of SWOT results
- Exercise using “The Business Model Canvas”
- Brainstorm on potential business model refinements



## Next Steps

- Complete work on “The Business Model Canvas” (on-line)
- Consider data needs for analysis of business model refinement proposals
- Next workshop on December 13<sup>th</sup>
- Workshops planned for January and February 2025, followed by 2nd Retreat
- Refinement proposal planned for CAMP4W Task Force in March 2025





# Discussion

