

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.

Bay-Delta Committee

T. Quinn, Chair
L. Ackerman, Vice Chair
D. Alvarez
J. Armstrong
D. Erdman
R. Lefevre
M. Luna
C. Miller
G. Peterson
T. Smith

Subcommittee on Bay-Delta

Meeting with Board of Directors *

October 10, 2023

2:30 p.m.

**Tuesday, October 10, 2023
Meeting Schedule**

**08:30 a.m. L&C
10:30 a.m. FAIRP
12:30 p.m. Break
01:00 p.m. BOD
02:30 p.m. Bay-Delta**

Agendas, live streaming, meeting schedules, and other board materials are available here: <https://mwdh2o.legistar.com/Calendar.aspx>. A listen-only phone line is available at 1-877-853-5257; enter meeting ID: 891 1613 4145. Members of the public may present their comments to the Board on matters within their jurisdiction as listed on the agenda via in-person or teleconference. To participate via teleconference 1-833-548-0276 and enter meeting ID: 815 2066 4276 or click <https://us06web.zoom.us/j/81520664276pwd=a1RTQWh6V3h3ckFhNmduUWpKR1c2Zz09>

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

* 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 Bay-Delta for April 25, 2023 (Copies have been submitted to each Director, any additions, corrections, or omissions)

[21-2715](#)

Attachments: [10102023 Bay-Delta 2A \(04252023\) Minutes](#)

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

3. SUBCOMMITTEE ITEMS

- a. Delta Islands Collaborative Efforts [REVISED SUBJECT [21-2467](#)
10/3/2023]

Panelist:

Brett Milligan, University of California Davis Professor of Human Ecology

Barbara Barrigan-Parrilla, Restore The Delta, Executive Director

Dr. Kristen Dybala, Ph.D., Point Blue, Principal Ecologist

Aaron Will, Ducks Unlimited, Restoration Ecologist

Dr. Don Hankins, Ph.D., Cal State University, Chico State Professor of Geography/Planning, Miwok Tribal Member

Attachments: [10102023 Bay-Delta 3a Presentation](#)

- b. Delta Stewardship Council: Virginia Madueno, Chair and Jessica Pearson, Executive Officer [21-2714](#)

Attachments: [10102023 Bay-Delta 3b Presentation](#)

- c. Overview of the Bay-Delta Memo [21-2713](#)

Attachments: [10102023 Bay-Delta 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 BAY-DELTA

APRIL 25, 2023

Chair Quinn called the meeting to order at 9:03 a.m.

Members present: Directors Ackerman, Alvarez, Armstrong, Erdman, Lefevre, Luna, Miller, Quinn, and Smith.

Members absent: None.

Other Board Members present: Board Chair Ortega, Directors Atwater (teleconference posted location), , Camacho, Dennstedt Faessel, Fellow, Fong-Sakai, Garza, Goldberg, McCoy, McMillan, and Seckel.

Committee Staff present: Hagekhalil, Hawk, Horton, Upadhyay, and Winn.

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

None

END OF CONSENT CALENDAR ITEMS

3. SUBCOMMITTEE ITEMS

a. Subject: Delta Conveyance Authority Representatives Update

Presented by: Directors Miguel Luna and Russell Lefevre

Committee Chair Quinn introduced the speakers.

Director Luna reported on the first two Delta Conveyance Design and Construction (DCA) meetings he attended as Metropolitan's appointed representative on its Board of Directors. He included five key topics (summary of work, community engagement, budget, contracts, and schedule) that were discussed at the second DCA meeting, which took place just one week prior to this meeting.

Director Lefevre reported on the Delta Conveyance Finance Authority Board (DCFA) meeting held on Jan 19. He reported on the action item, which was the election of officers of the DCFA. He also provided highlights on a report from the DCFA's Executive Manager, and he noted that a trial in the Department of

Water Resources' bond validation action will take place in May 2023, and he will report back in June 2023.

The following Director provided comments or asked questions.

1. Miller

Director Luna responded to the Director's question.

- b. Subject: Science Update: Delta Smelt Preservation Project
Presented by: Dr. Shawn Acuña, Bay-Delta Initiatives Senior Resource Specialist

Ms. Nina Hawk, Bay-Delta Initiatives Group Manager introduced the speaker and provided some background on the Delta smelt pilot study.

Dr. Acuña described the Pilot Propagation Study, provided information about why it is being conducted, and why it is important for Metropolitan to be involved in the study along with its study partners. He showed a brief video, titled "The Delta Smelt Deployment Exploring the Expansion of Fish Populations and Culturing Opportunities," and described the method, results, and next steps.

The following Directors provided comments or asked questions.

1. Miller
2. Lefevre
3. Luna
4. Armstrong
5. Ortega
6. Quinn

Staff responded to the Directors questions and comments.

- c. Subject: Update on Delta Island Collaborative Landscape Planning Effort
Presented by: Russell Ryan, Bay-Delta Initiatives Senior Engineer

Ms. Hawk introduced the speaker and provided some information about the topic.

Mr. Ryan provided an overview of the Metropolitan owned Delta Islands, focused on the collaborative landscape planning that evaluates land use, habitat opportunities and climate change resiliency through a California Department of Fish and Wildlife grant, highlighted planning activities schedule, and noted next steps.

The following Directors provided comments or asked questions.

1. Lefevre
2. Miller

Staff responded to the Directors questions and comments.

- d. Subject: Proposed Grant Opportunity for Webb Tract
Presented by: Malinda Stalvey, Bay-Delta Initiatives Senior Environmental
Specialist

Ms. Hawk introduced the Ms. Stalvey and noted the relationship between this presentation and the previous one. She also noted that Ms. Stalvey is the project manager for Metropolitan's Climate Action Plan.

Ms. Stalvey shared information about the location of the Webb Tract, access to it, and past land use. She described the current grant opportunity, grant goals, details, highlights, and next steps.

The following Directors provided comments or asked questions.

1. Smith
2. Miller
3. Ortega
4. Seckel
5. Fong-Sakai
6. Goldberg
7. Luna
8. Fellow
9. Ackerman

Staff responded to the Directors questions and comments.

4. FOLLOW-UP ITEMS

None

5. FUTURE AGENDA ITEMS

Director Luna suggested that Metropolitan have a "Delta Day." This would be an open house for the public to attend with presentations in order to engage ourselves and the public.

6. ADJOURNMENT

Meeting adjourned at 10:55 a.m.

Tracy Quinn
Chair



Subcommittee on Bay-Delta

Delta Island Collaborative Efforts

Item 3a

October 10, 2023

Delta Islands Collaborative Efforts

Overview & Purpose

- Metropolitan's Delta Islands Landscape Collaboration
- Funded through a 2020 California Department of Fish & Wildlife Proposition 1 Watershed Restoration Grant
- Evaluates opportunities for ecosystem enhancements, water supply security, carbon sequestration, agricultural best management practices and community partnerships

Delta Islands Collaborative Efforts

Overview & Purpose



Delta Islands Collaborative Efforts

Policy Considerations

Policy topics for Board consideration, which were mentioned in the collaborative planning effort:

- Do Metropolitan's Delta Islands advance climate action planning?
- Are Metropolitan's Delta Islands essential in securing water supply deliveries?
- Can Metropolitan's Islands influence decisions on Delta water operations?

Delta Islands Collaborative Efforts Panel Members

Brett Milligan

- University of California, Davis – Professor of Human Ecology

Barbara Barrigan-Parrilla

- Restore the Delta – Executive Director

Kristen Dybala, Ph.D.

- Point Blue – Principal Ecologist

Aaron Will

- Ducks Unlimited – Restoration Ecologist

Don Hankins, Ph.D.

- Cal State University, Chico State – Professor Geography/Planning
- Miwok Tribal Member

Panel Process

- Panel Introductory Statements & Initial Questions (5 minutes each)
- Board Director's Discussion & Questions for Panelists



OCT 2023

The Delta Agency with a Statewide Impact

Virginia Madueño, Chair
Jessica R. Pearson, Executive Officer



Delta
Stewardship
Council

A CALIFORNIA STATE AGENCY

About the Council

- The Council is made up of **seven members** advised by an Independent **Science Board** and supported by a staff of ~70. This includes:
 - The renown Delta Science Program, guided by the Delta Lead Scientist
 - A planning and regulatory team



Our mission: The coequal goals

- The Council's role is to **bring together** agency and community **partners** to work together to support two **coequal goals** in a manner that protects and enhances the cultural, natural resource, and agricultural values of the Delta as a place where people live, work, and recreate



The Delta Plan

- Sets forth a **common vision** for the Delta
- A resilient statewide water supply and ecosystem necessitate **collective implementation** of the Plan
- Chapters cover water supply, water quality, Delta ecosystem restoration, importance of reducing reliance on the Delta, and more
- Includes **regulations**, non-regulatory **recommendations**, and **performance measures** to further the coequal goals and measure progress



Delta Adapts

Creating a climate-resilient future

- Phase 1: Vulnerability Assessment

What specific risks does the Delta face?

- Phase 2: Adaptation Plan

How will we as a state face these risks?



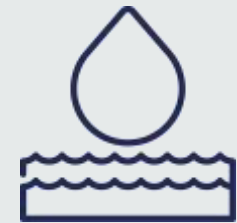
Vulnerability Assessment

Phase 1: Identify assets and systems most at risk from climate change

Flooding



Water exports & quality



Ag production



Extreme heat



Adaptation Strategy for the Delta

Phase 2: Identify a range of actions to improve regional resilience



Advancing ecosystem restoration

Amending Delta Plan Chapter 4:
Protect, Restore, and Enhance the
Delta Ecosystem

**A healthier Delta ecosystem leads
to a more reliable statewide water
supply**



A strategy for investing in Delta levees

Maximizing the protection of people, property, and state interests with an emphasis on transparent decision-making



Levees provide protection

- The Delta includes over 1,100 miles of **levees**
- Historically, there has **never been enough money** available to meet the established needs
- Delta levees **protect water conveyance** pathways 24/7



Other initiatives

- Environmental justice
- Tribal engagement
- Delta residents survey
- Science funding, synthesis, and peer review



Thank you

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Delta Stewardship Council



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Subcommittee on Bay-Delta

Overview of the Bay-Delta Memo

Item 3c

October 10, 2023

Bay-Delta Memo Purpose



- Follow-up to Board request made during the July 25th, 2023 Bay-Delta Workshop for additional cost information
- Memo transmitted to the Board on September 7th, 2023
- Included costs and expenditures related to major capital projects, science activities, and Delta Islands
- Additional Board request made during the One Water and Stewardship Committee on September 11th, 2023, for a walkthrough presentation of the memo's contents

Policy Considerations

Bay-Delta memo intended to serve as a primer for major policy discussions in 2024 including the following:

- As the Climate Adaptation Master Plan for Water (CAMP4W) is developed, how should Metropolitan's participation in Delta Conveyance and Sites Reservoir be integrated?
- How should Metropolitan continue in its leadership role to support Bay-Delta science that informs management decisions?
- In addition to fiscal metrics, what strategic values and innovative opportunities should be considered in the management and advancement of responsible stewardship of Metropolitan's Delta islands?

Agenda

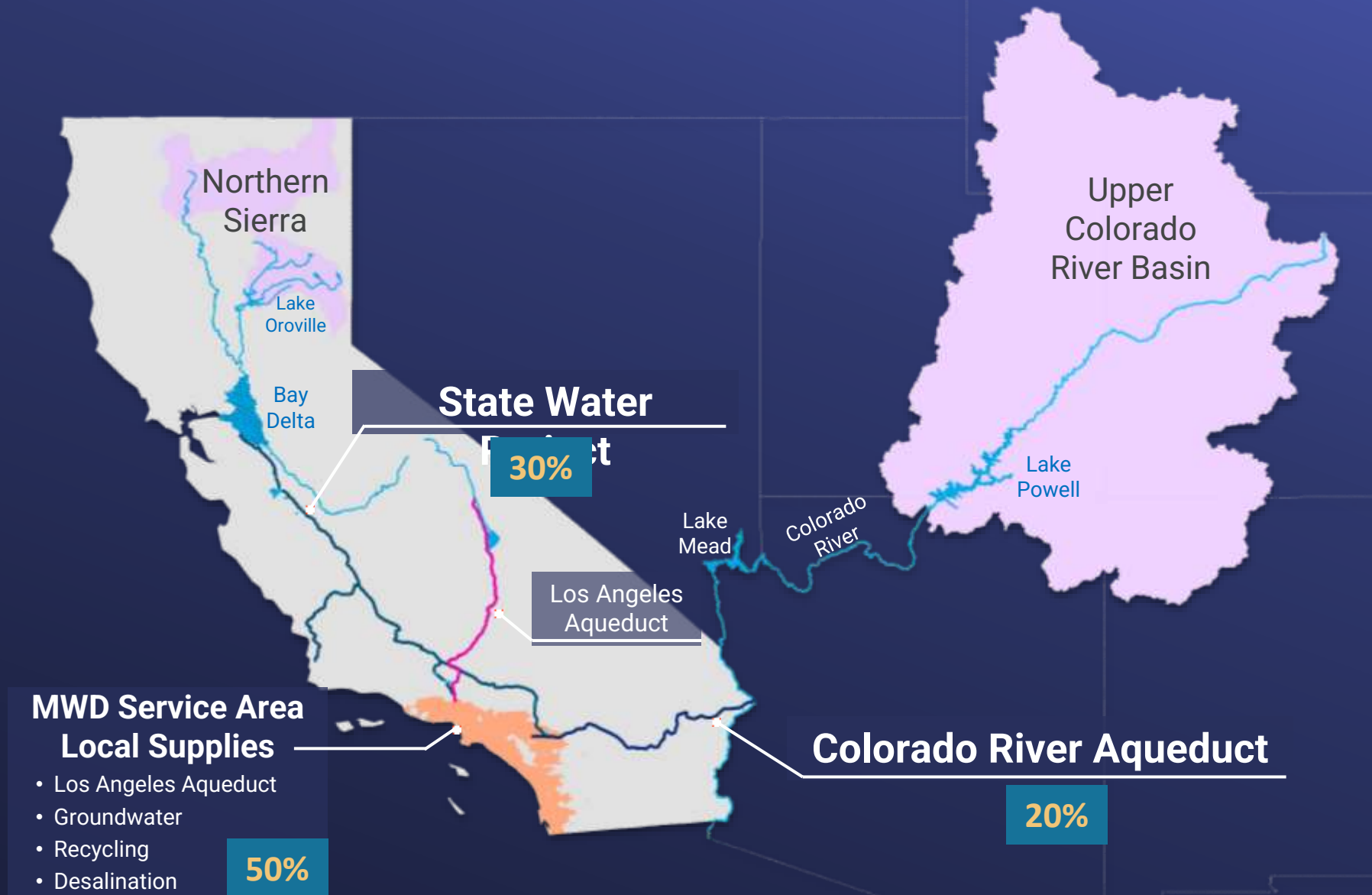
- Importance of the Bay-Delta
- Cost Summaries
 - Delta Conveyance
 - Sites Reservoir
- Bay-Delta Science Activities
- Metropolitan's Delta Islands



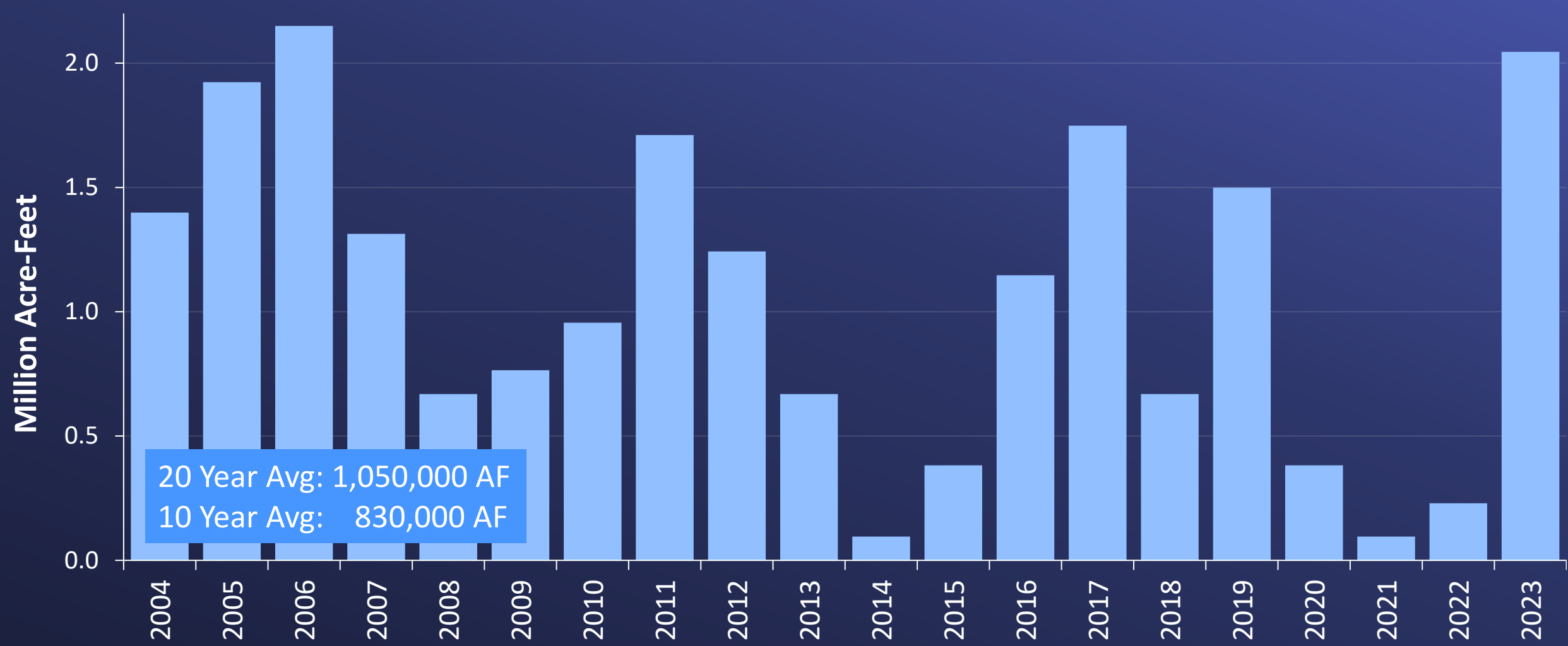
Photo Credit: CalMatters

Importance of the Bay-Delta

Metropolitan Water District's Sources of Supplies



SWP Supplies Available to Metropolitan



Note: Graph depicts the total SWP Table A available to Metropolitan and deliveries of Article 21 and Human Health & Safety supplies during a given calendar year. Graph does not include takes from Metropolitan's storage accounts or water transfers. Calendar Year 2023 is a projection and subject to change.



Cost Summaries

Delta Conveyance Project Overview



**CLIMATE
RESILIENCY**



**SEISMIC
RESILIENCY**



**WATER
SUPPLY
RELIABILITY**



**OPERATIONAL
FLEXIBILITY**

Delta Conveyance Project Cost Summary



Metropolitan Delta Conveyance Related Expenses (Millions of Dollars)

| Cost Type | CALFED Program (1995-2004) | Bay Delta Conservation Plan (2005-2015) | California WaterFix (2015-2019) | Proposed Delta Conveyance Project (2019-Present) | Total |
|--------------------|----------------------------|---|---------------------------------|--|----------------|
| Planning Costs | - | \$66.2 | \$7.5 | \$160.8 | \$234.5 |
| Internal Costs | \$4.0 | \$32.4 | \$19.2 | \$8.8 | \$64.4 |
| Total Costs | \$4.0 | \$98.6 | \$26.7 | \$169.6 | \$298.9 |

Sites Reservoir Overview



**CLIMATE
RESILIENCY**



**WATER SUPPLY
RELIABILITY**



**ENHANCE THE
DELTA ECOSYSTEM**



**IMPROVE
ANADROMOUS
FISH SURVIVAL**

Sites Reservoir Cost Summary



Metropolitan Sites Reservoir Related Expenses (Millions of Dollars)

| Cost Type | 2017 - 2018 Workplan | 2019 - 2020 Workplan | 2021 Workplan | 2022 - 2024 Workplan | Total |
|----------------|-------------------------|-------------------------|------------------|-------------------------|--------|
| Planning Costs | \$1.5 | \$4.2 | \$5.0 | \$20.0 | \$30.7 |
| Internal Costs | \$0.3 | \$0.3 | \$0.3 | \$0.3 | \$1.2 |
| Total Costs | \$1.8 | \$4.5 | \$5.3 | \$20.3 | \$31.9 |

Metropolitan's Bay-Delta Science Efforts

- Water supply reliability & ecosystem restoration
- Supports policy & management actions
- Informs environmental solutions & investments
- Fosters collaborative partnerships statewide



Science Activities Cost Summary



Ongoing and Completed Studies CY 2022 & 2023 (Millions of Dollars)

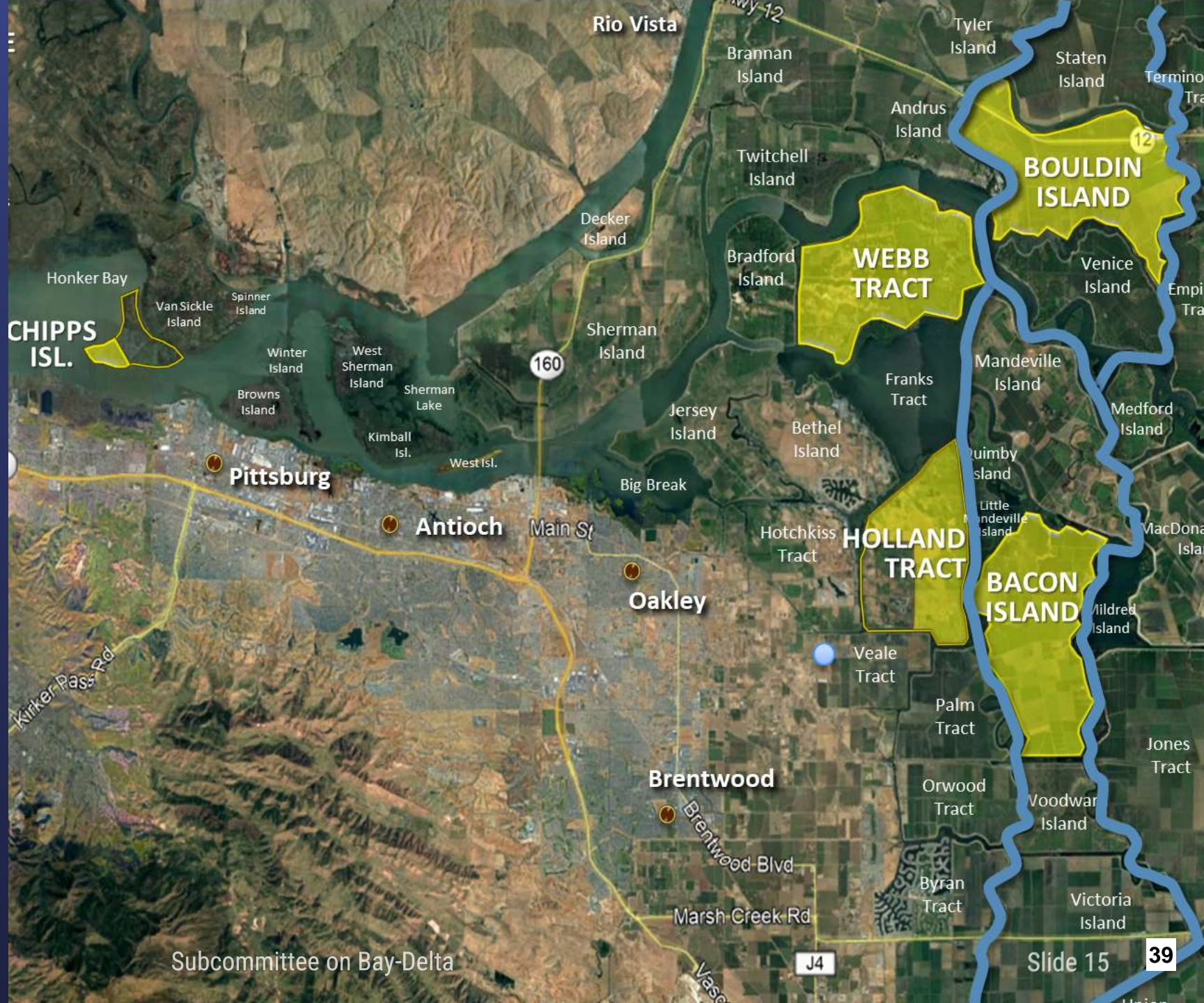
| Topic | MWD Contribution | SWC Contribution | Others Contribution | Total | % MWD Contribution |
|---------------|------------------|------------------|---------------------|---------------|--------------------|
| Delta Smelt | \$1.3 | \$1.1 | \$29.1 | \$31.5 | 4% |
| Salmon | \$1.0 | \$0.5 | \$7.2 | \$8.8 | 12% |
| Food web | \$0.2 | \$0.1 | \$1.5 | \$1.8 | 12% |
| Longfin Smelt | \$0.2 | \$0.2 | \$0.0 | \$0.4 | 46% |
| Modeling | \$0.3 | \$0.0 | \$0.0 | \$0.3 | 100% |
| Fish Surveys | \$0.2 | \$0.0 | \$0.0 | \$0.2 | 100% |
| Other | \$0.1 | \$0.0 | \$0.3 | \$0.4 | 33% |
| Total | \$3.4 | \$2.0 | \$38.2 | \$43.5 | 8% |

Note: Table only displays information related to science activities Metropolitan provided funding towards. There are significant activities and research related to these topics being performed and funded by other institutions that are not captured in this table.

Metropolitan's Delta Islands

Overview

- 2016 purchase
- 5 islands; 20,400 acres
- 2021 Chipps Island sold



Delta Islands Purchase Cost Summary



Metropolitan Delta Island Purchase (Millions of Dollars)

| Delta Property | Purchase \$/acre | Gross Acreage | Purchase Allocation |
|------------------------------|------------------|---------------|----------------------|
| Bouldin Island | \$8,650.15 | 6,053.63 | \$52,364,808 |
| Bacon Island | \$8,650.15 | 5,603.01 | \$48,466,877 |
| Holland Tract | \$8,650.15 | 3,007.00 | \$26,011,001 |
| Webb Tract | \$8,650.15 | 5497.86 | \$47,557,314 |
| Chippis Island | \$2,469.14 | 243.00 | \$600,000 |
| Total | \$8,577.37 | 20,404.50 | \$175,000,000 |
| Chippis Island (sale) | (\$4,000.00) | 243.00 | (\$972,000) |
| | | | \$174,028,000 |

Strategic Value & Fiscal/Risk Analysis

January 2024

Delta Islands Next Steps



Analysis of the revenue, expenses, and risks of existing initiatives & innovative future solutions

