REGULAR MEETING
OF THE BOARD OF DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
AND ANNUAL MEETING OF THE BOARD OF DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
WATER FACILITIES CORPORATION
18700 Ward Street, Board Room, Fountain Valley, California
September 20, 2023, 8:30 a.m.

This meeting will be held in person. As a convenience for the public, the meeting may also be accessed by Zoom Webinar and will be available by either computer or telephone audio as indicated below. Because this is an in-person meeting and the Zoom component is not required, but rather is being offered as a convenience, if there are any technical issues during the meeting, this meeting will continue and will not be suspended.

Computer Audio: You can join the Zoom meeting by clicking on the following link:
https://zoom.us/j/8828665300

Telephone Audio:	**(669) 900 9128 fees may apply**
	(877) 853 5247 Toll-free
Webinar ID:	**882 866 5300#**

AGENDA

MOMENT OF SILENCE

PLEDGE OF ALLEGIANCE

ROLL CALL

PUBLIC COMMENTS/PARTICIPATION

At this time, members of the public will be given an opportunity to address the Board concerning items within the subject matter jurisdiction of the Board. Members of the public may also address the Board about a particular Agenda item at the time it is considered by the Board and before action is taken. If the item is on the Consent Calendar, please inform the Board Secretary before action is taken on the Consent Calendar and the item will be removed for separate consideration.

The Board requests, but does not require, that members of the public who want to address the Board complete a voluntary "Request to be Heard" form available from the Board Secretary prior to the meeting.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Determine need and take action to agendize items(s) which arose subsequent to the posting of the Agenda. (ROLL CALL VOTE: Adoption of this recommendation requires a two-thirds vote of the Board members present, or, if less than two-thirds of the Board members are present, a unanimous vote of those members present.)

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING

Pursuant to Government Code section 54957.5, non-exempt public records that relate to open session agenda items and are distributed to a majority of the Board less than seventy-two (72) hours prior to the meeting will be available for public inspection in the lobby of the District's business office located at 18700 Ward Street, Fountain Valley, California 92708, during regular business hours. When practical, these public records will also be made available on the District's Internet Web site, accessible at http://www.mwdoc.com.

EMPLOYEE SERVICE AWARDS

MWDOC WATER FACILITIES CORPORATION AGENDA ITEMS

WFC-1 FINANCIAL REPORT

a. Annual Filing of Tax Compliance Reports.

Recommendation: Authorize the annual filing of the tax compliance reports as presented.

WFC-2 REORGANIZATION OF MWDOC WFC BOARD OFFICERS

Recommendation: Consider reorganizing the MWDOC WFC Board officers

ADJOURNMENT -- END MWDOC WFC AGENDA

MWDOC AGENDA

NEXT RESOLUTION NO. 2143

CONSENT CALENDAR (Items 1 to 7)
(All matters under the Consent Calendar will be approved by one motion unless a Board member requests separate action on a specific item)

1. MINUTES

a. August 2, 2023 Workshop Board Meeting
b. August 16, 2023 Regular Board Meeting

Recommendation: Approve as presented.

2. COMMITTEE MEETING REPORTS

a. Planning & Operations Committee Meeting (cancelled)
b. Administration & Finance Committee Meeting: August 9, 2023
c. Executive Committee Meeting: August 17, 2023

Recommendation: Receive and file as presented.

3. TREASURER'S REPORTS

a. MWDOC Revenue/Cash Receipt Register as of August 31, 2023
b. Disbursement Registers (August/September)

Recommendation: Ratify and approve as presented.

c. Summary of Cash and Investment and Portfolio Master Summary Report (Cash and Investment report) as of July 31, 2023
d. PARS Monthly Statement (OPEB Trust)

Recommendation: Receive and file as presented.

4. FINANCIAL REPORT

a. Draft Combined Financial Statements and Budget Comparative for the Period Ending July 31, 2023

Recommendation: Receive and file as presented.

5. AUTHORIZE WEROC MOBILE EOC

Recommendation: Approve use of MWDOC reserve funding not to exceed $400,000 to purchase a mobile EOC/Command Vehicle (Option 1).

6. ASSOCIATION OF CALIFORNIA WATER AGENCIES (ACWA) COMMITTEE CONSIDERATION FOR 2024-25

Recommendation: Authorize the requests to serve on various ACWA Committees for the 2024-25 term, and direct staff to submit the completed Committee Consideration Forms by the September 30, 2023 deadline.

7. PROFESSIONAL SERVICES CONTRACT AWARD FOR LEAD & COPPER RULE REVISIONS (LCRR) SERVICE LINE INVENTORY CHOICE PROGRAM

Recommendation: Authorize the Interim General Manager to enter into a professional services agreement with Hazen and Sawyer (Hazen) to assist in the development of participating agencies' Lead and Copper Rule Revisions (LCRR) Service Line Inventories. Depending on the number of Orange County agencies that elect to participate, the final contract amount will include all of the participating agencies' costs. This would include any contingency items that the participating agencies request and/or that the consultant deem are needed to meet the requirements of the LCRR regulations. These contingency items can range from additional assistance in the collection, review, and analysis of record documents to the consultant providing field personnel to conduct field investigations. To date, MWDOC has received commitment from 13 agencies to participate in the Choice Program (pending their governing body's approval) with 2 additional agencies still under consideration. Attachment A to the write up includes the list of agencies who have indicated participation in this joint effort with MWDOC. If all 15 agencies participate, the total contract, with estimated contingency items, can range from $2,094,000 to $2,948,000.

End Consent Calendar

INFORMATION CALENDAR (All matters under the Information Calendar will be Received/Filed as presented following any discussion that may occur)

8. GENERAL MANAGER'S REPORT, SEPTEMBER 2023 (ORAL AND WRITTEN)

a. Initial Member Agency Managers Feedback regarding Consolidation Issues

Recommendation: Receive and file report(s) as presented.

9. SOLE SOURCE AGREEMENT WITH ESRI, INC.

Recommendation: Receive and file the Sole Source information.

10. MWDOC GENERAL INFORMATION ITEMS

a. Board of Directors - Reports re: Conferences and Meetings
b. Requests for Future Agenda Topics

Recommendation: Receive and file as presented.

ADJOURNMENT

Note: Accommodations for the Disabled. Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by contacting Maribeth Goldsby, District Secretary, at (714) 963-3058, or writing to Municipal Water District of Orange County at P.O. Box 20895, Fountain Valley, CA 92728. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

Item No. WFC-1

WFC ACTION ITEM
September 20, 2023

TO: **Board of Directors, MWDOC Water Facilities Corporation**

FROM: Harvey De La Torre, Interim General Manager Staff Contact: Steven Hung

SUBJECT: **2023 Annual Filing of Tax Compliance Reports for the MWDOC Water Facilities Corporation**

STAFF RECOMMENDATION

Staff recommends that the MWDOC WFC Board of Directors authorize the annual filing of the Water Facilities Corporation tax compliance reports as presented.

COMMITTEE RECOMMENDATION

Committee referred this item to the Board.

SUMMARY

To maintain the Water Facilities Corporation ("Corporation") as an active entity, the following tax compliance reports will be filed on behalf of the Corporation for FY 2022-23, upon review of the Administration & Finance Committee, and concurrence by the Corporation Board of Directors:

- ePostcard of Organization Exempt from Income Tax (IRS Form 990-N). This is allowed since the corporations gross receipts are less than $50,000.
- ePostcard of California Exempt Organization Annual Information Return (CA Form 199-N). This is allowed since the corporations gross receipts are less than $50,000.
- Annual Registration Renewal Fee Report to Attorney General of California (CA Form RRF-1)
- The Corporation Board of Directors approved filing these reports for FY 2021-22 at last year's September board meeting

Attachments
- IRS 990-N ePostcard
- CA 199-N ePostcard
- CA Form RRF-1
- CT-TR1 Form

Budgeted (Y/N): N/A	**Budgeted Amount:** N/A	Core __	Choice __
Action Item Amount: N/A	**Line item:**		
Fiscal Impact (explain if unbudgeted): N/A			

Form **990-N**

Electronic Notice (e-Postcard)

Department of the Treasury
Internal Revenue Service

for Tax-Exempt Organization not Required to File Form 990 or 990-EZ

OMB No. 1545-2085

2022

Open to Public Inspection

A For the **2022** Calendar year, or tax year beginning **2022-07-01** and ending **2023-06-30**

B Check if available
- ☐ **Terminated for Business**
- ☑ **Gross receipts are normally $50,000 or less**

C Name of Organization: **MUNICIPAL WATER DISTRICT OF ORANGE COUNTY WALTER FACILITIES CORP**
18700 Ward Street, Fountain Valley, CA, US, 92708

D Employee Identification Number **95-3500739**

E Website:

F Name of Principal Officer: **Steven Hung**
18700 Ward Street, Fountain Valley, CA, US, 92708

Information Copy. Do not send to IRS.

Privacy Act and Paperwork Reduction Act Notice: We ask for the information on this form to carry out the Internal Revenue laws of the United States. You are required to give us the information. We need it to ensure that you are complying with these laws.

The organization is not required to provide information requested on a form that is subject to the Paperwork Reduction Act unless the form displays a valid OMB control number. Books or records relating to a form or its instructions must be retained as long as their contents may become material in the administration of any Internal Revenue law. The rules governing the confidentiality of the Form 990-N is covered in code section 6104.

The time needed to complete and file this form and related schedules will vary depending on the individual circumstances. The estimated average times is 15 minutes.

Note: This image is provided for your records only. Do Not mail this page to the IRS. The IRS will not accept this filing via paper. You must file your Form 990-N (e-Postcard) electronically.

199N e-Postcard

Confirmation

Privacy Policy

Print this page for your records. The Confirmation Number below is proof that you successfully filed your 199N e-Postcard.

We received your 199N e-Postcard on 8/22/2023 11:05:15 AM.

Confirmation Number: 084438623411

Entity ID:
0844386
Entity Name:
MUNICIPAL
WATER
DISTRICT OF
ORANGE
COUNTY
WATER
FACILITIES
CORPORATIO
N

Account Period Information

Account
Period

Beginning:
7/1/2022
Account Period Ending:
6/30/2023

This is not your entity's first year in business.

Your entity has not terminated or gone out of business.

Your entity has not changed the account period.

Gross Receipts: $0

This is not an amended return.

An IRS Form 1023/1024 is not pending.

Entity Information

FEIN:
953500739
Doing Business As:
Website Address:

Entity's Mailing Address

PO Box 20895
Accounting
Fountain
Valley CA
92728

Principal Officer's Information

Hilary
Chumpitazi
PO Box 20895
Accounting
Fountain
Valley CA
92728

Contact Information

Name:
Steven Hung
Phone:
714-593-5030

After we process your 199N e-Postcard, you may receive a bill if the three year gross receipt average is greater than the amount allowed for filing a 199N e-Postcard.

Print Log Out

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MAIL TO:
Registry of Charitable Trusts
P.O. Box 903447
Sacramento, CA 94203-4470

STREET ADDRESS:
1300 I Street
Sacramento, CA 95814
(916) 210-6400

WEBSITE ADDRESS:
www.oag.ca.gov/charities

ANNUAL REGISTRATION RENEWAL FEE REPORT TO ATTORNEY GENERAL OF CALIFORNIA

Sections 12586 and 12587, California Government Code
11 Cal. Code Regs. sections 301-306, 309, 311, and 312

Failure to submit this report annually no later than four months and fifteen days after the end of the organization's accounting period may result in the loss of tax exemption and the assessment of a minimum tax of $800, plus interest, and/or fines or filing penalties. Revenue & Taxation Code section 23703; Government Code section 12586.1. IRS extensions will be honored.

(For Registry Use Only)

Municipal Water District of Orange County-Water Facilities Corporation
Name of Organization

List all DBAs and names the organization uses or has used

18700 Ward St
Address (Number and Street)

Fountain Valley, CA 92708
City or Town, State, and ZIP Code

714.593.5030
Telephone Number

shung@mwdoc.com
E-mail Address

Check if:
- ☐ Change of address
- ☐ Amended report

State Charity Registration Number 34561

Corporation or Organization No. D-0844386

Federal Employer ID No. 95-3500739

ANNUAL REGISTRATION RENEWAL FEE SCHEDULE (11 Cal. Code Regs. sections 301-307, 311, and 312)
Make Check Payable to Department of Justice

Total Revenue	Fee	Total Revenue	Fee	Total Revenue	Fee
Less than $50,000	$25	Between $250,001 and $1 million	$100	Between $20,000,001 and $100 million	$800
Between $50,000 and $100,000	$50	Between $1,000,001 and $5 million	$200	Between $100,000,001 and $500 million	$1,000
Between $100,001 and $250,000	$75	Between $5,000,001 and $20 million	$400	Greater than $500 million	$1,200

PART A - ACTIVITIES

For your most recent full accounting period (beginning 07 / 01 / 2022 **ending** 06 / 30 / 2023 **) list:**

Total Revenue $ (including noncash contributions) 0.00

Noncash Contributions $ 0.00

Total Assets $ 0.00

Program Expenses $ 0.00

Total Expenses $ 0.00

PART B - STATEMENTS REGARDING ORGANIZATION DURING THE PERIOD OF THIS REPORT

Note: All questions must be answered. If you answer "yes" to any of the questions below, you must attach a separate page providing an explanation and details for each "yes" response. Please review RRF-1 instructions for information required.

	Yes	No
1. During this reporting period, were there any contracts, loans, leases or other financial transactions between the organization and any officer, director or trustee thereof, either directly or with an entity in which any such officer, director or trustee had any financial interest?		
2. During this reporting period, was there any theft, embezzlement, diversion or misuse of the organization's charitable property or funds?		
3. During this reporting period, were any organization funds used to pay any penalty, fine or judgment?		
4. During this reporting period, were the services of a commercial fundraiser, fundraising counsel for charitable purposes, or commercial coventurer used?		
5. During this reporting period, did the organization receive any governmental funding?		
6. During this reporting period, did the organization hold a raffle for charitable purposes?		
7. Does the organization conduct a vehicle donation program?		
8. Did the organization conduct an independent audit and prepare audited financial statements in accordance with generally accepted accounting principles for this reporting period?		
9. At the end of this reporting period, did the organization hold restricted net assets, while reporting negative unrestricted net assets?		

I declare under penalty of perjury that I have examined this report, including accompanying documents, and to the best of my knowledge and belief, the content is true, correct and complete, and I am authorized to sign.

Signature of Authorized Agent	Printed Name	Title	Date
Steven Hung	Steven Hung	Financial Analyst	8.22.2023

MAIL TO:
Registry of Charitable Trusts
P.O. Box 903447
Sacramento, CA 94203-4470

STREET ADDRESS:
1300 I Street
Sacramento, CA 95814
(916) 210-6400

WEBSITE ADDRESS:
www.oag.ca.gov/charities

ANNUAL TREASURER'S REPORT
ATTORNEY GENERAL OF CALIFORNIA

Section 12586, California Government Code
11 Cal. Code Regs., Section 301

(FORM CT-TR-1)

(For Registry Use Only)

Municipal Water District of Orange County-Water Facilities Corporation
Name of Organization

18700 Ward Street
Address (Number and Street)

Fountain Valley, CA 92708
City or Town, State and ZIP Code

State Charity Registration Number 34561

Corporation or Organization No. D-844386

Federal Employer I.D. No. 95-3500739

For annual accounting period (beginning 07 / 01 / 2022 **ending** 06 / 30 / 2023 **)**

BALANCE SHEET

ASSETS

Cash	$	0.00
Savings	$	0.00
Investment	$	0.00
Land/Buildings	$	0.00
Other Assets	$	0.00
TOTAL ASSETS	$	0.00

LIABILITIES

Accounts Payable	$	0.00
Salary Payable	$	0.00
Other Liabilities	$	0.00
TOTAL LIABILITIES	$	0.00

FUND BALANCE

Total Assets less Total Liabilities	$	0.00

REVENUE STATEMENT

REVENUE

Cash Contributions	$	0.00
Noncash Contributions	$	0.00
Program Revenue	$	0.00
Investments	$	0.00
Special Events	$	0.00
Other Revenue	$	0.00
TOTAL REVENUE	$	0.00

NET REVENUE

Total Revenue less Total Expenses	$	0.00

EXPENSES

Compensation of Officers/Directors	$	0.00
Compensation of Staff	$	0.00
Fundraising Expenses	$	0.00
Rent	$	0.00
Utilities	$	0.00
Supplies/Postage	$	0.00
Insurance	$	0.00
Other Expenses	$	0.00
TOTAL EXPENSES	$	0.00

I hereby declare under penalty of perjury that I have examined this report, including accompanying documents, and, to the best of my knowledge and belief, the content is true, correct and complete and I am authorized to sign.

Signature of Authorized Agent	Printed Name	Title	Date
Steven Hung	Steven Hung	Financial Analyst	8.22.2023

Item No. WFC-2

WFC ACTION ITEM
September 20, 2023

TO: **Board of Directors, MWDOC Water Facilities Corporation**

FROM: **Harvey De La Torre, Interim General Manager** Staff Contact: Maribeth Goldsby

SUBJECT: **Annual Reorganization of Board Officers for the MWDOC Water Facilities Corporation**

STAFF RECOMMENDATION

Staff recommends that the MWDOC WFC Board of Directors appoint a President and Vice President of the MWDOC WFC. At the Executive Committee meeting, Director Dick suggested the Board consider appointing Director Al Nederhood as President of the MWDOC WFC Board, and Director Randy Crane as MWDOC WFC Vice President.

MWDOC ADMINISTRATION & FINANCE COMMITTEE RECOMMENDATION

Committee referred this to the Board.

SUMMARY

In December 2010, the Board of Directors adopted the Amended and Restated By-Laws for the Water Facilities Corporation ("WFC"). An annual reorganization of Corporation Board Officers shall be conducted in accordance with Article IV., Sections 4.02 and 4.03, as excerpted below.

Section 4.02. Appointment. The officers shall be chosen at the annual meeting each year by the Board of Directors and each shall hold their office until they shall resign, be removed, or otherwise disqualified to serve, or a successor shall be qualified and appointed.

Section 4.03. Term of Office. Unless otherwise determined at the discretion of the Board of Directors, the term of office of the President and Vice President of the Corporation shall be for one year. The term of office of the General Manager, Secretary and Treasurer of the Corporation, respectively, shall coincide with each individual's term of employment with the District.

Currently Director Bob McVicker serves as President and Director Karl Seckel serves as Vice President of the MWDOC Water Facilities Corporation.

Budgeted (Y/N): N/A	**Budgeted Amount:** N/A	Core __	Choice __
Action Item Amount: N/A	**Line item:**		
Fiscal Impact (explain if unbudgeted): N/A			

MINUTES OF THE WORKSHOP BOARD MEETING
OF THE BOARD OF DIRECTORS OF
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY (MWDOC)
WITH THE MWDOC MET DIRECTORS
August 2, 2023

At 8:30 a.m., President Yoo Schneider called to order the Workshop Meeting of the Municipal Water District of Orange County in Conference Room 101 at the District facilities located in Fountain Valley, as well as including attendance via the Zoom Webinar application. Vice President McVicker led the Pledge of Allegiance and Secretary Goldsby called the roll.

MWDOC DIRECTORS
Al Nederhood
Larry Dick*
Karl W. Seckel*
Bob McVicker
Randall Crane
Jeffery M. Thomas
Megan Yoo Schneider

STAFF
Harvey De La Torre, Interim General Mgr.
Joe Byrne, Legal Counsel
Maribeth Goldsby, District Secretary
Melissa Baum-Haley, Dir. of MET Issues/Policy
Alex Heide, Water Resources Analyst (absent)
Charles Busslinger, Dir. of Engineering/Dist. Eng.
Heather Baez, Director of Government Affairs
Hilary Chumpitazi, Director of Finance/IT
Joe Berg, Director of Water Use Efficiency
Vicki Osborn, Director of Emergency Management
Sarina Sriboonlue, Principal Engineer

*Also MWDOC-MET Directors

OTHER MWDOC-MET DIRECTORS
Linda Ackerman (absent)
Dennis Erdman (absent)

OTHERS PRESENT

Brandon Goshi	Metropolitan Water District of So. Calif.
Noosha Razavian	Metropolitan Water District of So. Calif.
Sara Tucker	NRR
Garrett Durst	NRR
Syrus Devers	Syrus Devers Advocacy
Dick Ackerman	Ackerman Consulting
Ed Means (absent)	Means Consulting
Paul Jones	Dopudja & Wells Consulting
Peter Whittingham (absent)	Whittingham Public Affairs Advisors
Dave Youngblood	East Orange County Water District
Kathryn Freshley	El Toro Water District
Mike Gaskins	El Toro Water District
Kay Havens	El Toro Water District
Mark Monin	El Toro Water District
Vu Chu	El Toro Water District
Dennis Cafferty	El Toro Water District
Mike Dunbar	Emerald Bay Service District
Ken Vecchiarelli	Golden State Water Company

Peer Swan	Irvine Ranch Water District
Paul Weghorst	Irvine Ranch Water District
Christine Compton	Irvine Ranch Water District
Keith Van Der Maaten	Laguna Beach County Water District
Jim Atkinson	Mesa Water
Paul Shoenberger	Mesa Water
Stacy Taylor	Mesa Water
Dick Fiore	Moulton Niguel Water District
Don Froelich	Moulton Niguel Water District
Laura Rocha	Moulton Niguel Water District
Mike Markus	Orange County Water District
Alicia Dunkin	Orange County Water District
Dan Ferons	Santa Margarita Water District
Jim Leach	Santa Margarita Water District
Chip Monaco	Santa Margarita Water District
Greg Mills	Serrano Water District
Brad Reese	Serrano Water District
Bill Green	South Coast Water District
Fernando Paludi	Trabuco Canyon Water District
Brett Barbre	Yorba Linda Water District
Tom Lindsey	Yorba Linda Water District
Wayne Miller	Yorba Linda Water District
Lisa Ohlund	Ohlund Management & Technical Services
Emily Novak	San Diego County Water Authority
Kristy Khachigian	KK Consulting
Doug Obegi	NRDC
Richard Bell	

PUBLIC PARTICIPATION/PUBLIC COMMENTS

President Yoo Schneider inquired whether any members of the public wished to comment on agenda items.

No public comments were received.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED - Determine need and take action to agendize item(s), which arose subsequent to the posting of the Agenda. (ROLL CALL VOTE: Adoption of this recommendation requires a two-thirds vote of the Board members present or, if less than two-thirds of the Board members are present, a unanimous vote.)

No items were presented.

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING

President Yoo Schneider inquired as to whether there were any items distributed to the Board less than 72 hours prior to the meeting.

No items were distributed to the Board less than 72 hours prior to the meeting.

PRESENTATION / DISCUSSION ITEMS

PRESENTATION BY METROPOLITAN STAFF ON THE UTILIZATION OF THE NEEDS ASSESSMENT PLANNING TOOL IN CAMP4W

Mr. Brandon Goshi (MET) outlined key planning questions which came up during the CAMP4W discussions, which included: (1) identifying the range of "Gaps" development in the Needs Assessment; (2) identifying options or portfolios to fill the "Gaps"; (2) analyzing the cost of the options/portfolios; and (4) analyzing the rate impacts under different business models.

Mr. Goshi also provided an overview of the IRP Needs Assessment process and findings (including the scenario planning process), as well as outlining assumptions and shortages identified within each of the four planning scenarios, and key planning questions (or next steps) in the CAMP4W process.

Considerable discussion ensued with specific emphasis on how high demand might affect the various scenarios; the need to develop a better plan for capturing surplus water; system capacity limitations; how future investments would get incorporated into the business model; the reasons MET might lean toward Scenario D (the worst-case scenario); climate change effects on supply; potential regulatory constraints with pumping; potential contaminants (e.g., PFAS); the impacts of the AVEK Program on storage; the importance of a reliable water supply (and the impacts of not being reliable); potential rate increases with fewer water purchases; the idea of planning for Scenario C (then adaptively managing for Scenario D); and MET's financial condition and what the solution will cost.

The Board received and filed the report as presented.

LEGISLATIVE ACTIVITIES

a. Federal Legislative Report (NRR)

Mr. Garrett Durst (NRR) reviewed NRR's written report in the packet, highlighting the appropriations process, the STREAM Act, the Delta Conveyance Project, and S. 2514, the Colorado River Basin Salinity Control Act (which was introduced by the western Senators).

The Board received and filed the report.

b. State Legislative Report

Mr. Syrus Devers, of SDA, reviewed his report, noting nothing additional to report. Responding to an inquiry by Director Seckel, he advised that although he was no longer an employee of Best Best & Krieger (BBK), he was now working as an independent contractor through BBK, noting there would be no change in billing, etc.

Following discussion, the Board received and filed the report.

c. Legal and Regulatory Report (Ackerman)

Mr. Dick Ackerman referenced his report, highlighting a recent article in the *Los Angeles Times* (blaming water loss in the Colorado River on Climate Change).

The Board received and filed the report.

d. County Legislative Report (Whittingham)

Interim General Manager De La Torre referenced Mr. Whittingham's written report, and advised that although Mr. Whittingham was on vacation, staff was available to answer questions regarding his report.

e. MWDOC Legislative Matrix

The Board received and filed the report.

f. Metropolitan Legislative Matrix

The Board received and filed the report.

INFORMATION ITEMS

MWD ITEMS CRITICAL TO ORANGE COUNTY

a. MET Finance and Rate Issues
b. MET Water Supply Conditions Update
c. Water Quality Update
d. Colorado River Issues
e. Delta Conveyance Activities and State Water Project Issues

The Board received and filed the report as presented.

METROPOLITAN (MET) BOARD AND COMMITTEE AGENDA DISCUSSION ITEMS

a. Summary reports regarding the July MET Board Meeting
b. Review items of significance for the upcoming MET Board and Committee Agendas

The report was received and filed.

ADJOURNMENT

There being no further business, the meeting adjourned at 10:04 a.m.

_____
Maribeth Goldsby
Board Secretary

MINUTES OF THE REGULAR MEETING
OF THE BOARD OF DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
August 16, 2023

At 8:30 a.m., President Yoo Schneider called to order the Regular Meeting of the Municipal Water District of Orange County, in the Board Room at the District facilities located in Fountain Valley, as well as including attendance via the Zoom Webinar application. Following a moment of silence, Secretary Goldsby led the Pledge of Allegiance and called the roll.

MWDOC DIRECTORS	**STAFF**
Al Nederhood	
Larry Dick	Harvey De La Torre, Interim General Manager
Bob McVicker	Joe Byrne, Legal Counsel
Karl Seckel	Maribeth Goldsby, Board Secretary
Randall Crane	Melissa Baum-Haley, Director of MET Issues/Policy
Jeffery M. Thomas	Damon Micalizzi, Director of Public Affairs
Megan Yoo Schneider	Vicki Osborn, Director of Emergency Management
	Alex Heide, Sr. Water Resources Analyst
	Joe Berg, Director of Water Use Efficiency
	Charles Busslinger, Dir. of Engineering/Dist. Eng.
	Hilary Chumpitazi, Director of Finance/IT
	Heather Baez, Director of Governmental Affairs

ALSO PRESENT	
Linda Ackerman	MWDOC/MET Director
Dennis Erdman	MWDOC/MET Director
Dave Youngblood	East Orange County Water District
Kathryn Freshley	El Toro Water District
Kay Havens	El Toro Water District
Mark Monin	El Toro Water District
Jose Vergara	El Toro Water District
Dennis Cafferty	El Toro Water District
Sherri Seitz	El Toro Water District
Vu Chu	El Toro Water District
Doug Reinhart	Irvine Ranch Water District
Peer Swan	Irvine Ranch Water District
Paul Weghorst	Irvine Ranch Water District
Jim Atkinson	Mesa Water
Jim Fisler	Mesa Water
Paul Shoenberger	Mesa Water
Stacy Taylor	Mesa Water
Kelly Rowe	Orange County Water District
Mike Markus	Orange County Water District
John Kennedy	Orange County Water District
Alicia Dunkin	Orange County Water District
Chuck Gibson	Santa Margarita Water District
Saundra Jacobs	Santa Margarita Water District
Dan Ferons	Santa Margarita Water District
Jim Leach	Santa Margarita Water District
Chip Monaco	Santa Margarita Water District

Erica Castillo	Santa Margarita Water District
Jennifer Lopez	South Coast Water District
Fernando Paludi	Trabuco Canyon Water District
Tom Lindsey	Yorba Linda Water District
Dick Ackerman	Ackerman Consulting
Lisa Ohlund	Ohlund Management & Technical Services
Kristy Khachigian	KK Consulting
John Lewis	

PUBLIC PARTICIPATION/PUBLIC COMMENT

President Yoo Schneider announced that members of the public wishing to comment on agenda items could do so after the item has been discussed by the Board and requested members of the public identify themselves when called on. President Yoo Schneider asked whether any member of the public had any comments on items that are not on the agenda.

OC LAFCO Commissioner (and Mesa Water Director) Jim Fisler updated the Board on OC LAFCO activities, including the OC LAFCO communication tools (e.g., newsletters and the on-line Pulse publication). He noted that OC LAFCO recently updated its website which functions as a resource tool for various information.

A brief discussion ensued regarding OC LAFCO's dues structure (no changes to the current structure) and the opportunities missed by OC LAFCO to be more helpful with the MSR Focused Study process.

SMWD Director Saundra Jacobs referenced the letter SMWD received from OC LAFCO regarding the MSR Focused Study, noting there was some confusion as it asked for input to the Study, but didn't include opportunity for feedback. It was noted that the issues surrounding the Study would be discussed at a future date.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

No items were received.

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING

President Yoo Schneider inquired as to whether there were any items distributed to the Board less than 72 hours prior to the meeting.

Secretary Goldsby noted that the District's response to the OC Grand Jury Report (Item 6-1) was distributed to the Board and made available to the public.

CONSENT CALENDAR

President Yoo Schneider stated all matters under the Consent Calendar would be approved by one MOTION unless a Director wished to consider an item separately.

Director Nederhood pulled Item No. 2d (MWDOC/OCWD Joint Planning Committee meeting minutes/report) from the Consent Calendar for further discussion.

Upon MOTION by Director Thomas, seconded by Director McVicker, and carried (7-0) the Board approved the balance of Consent Calendar items, by the following roll call vote:

AYES:	Directors Nederhood, Dick, McVicker, Seckel, Crane, Thomas and Yoo Schneider
NOES :	None
ABSENT:	None
ABSTAIN:	None

MINUTES

The following minutes were approved.

July 5, 2023 Workshop Board Meeting
July 19, 2023 Regular Board Meeting

COMMITTEE MEETING REPORTS

The following Committee Meeting reports were received and filed as presented.

Planning & Operations Committee Meeting:	July 3, 2023
Administration & Finance Committee Meeting:	July 12, 2023
Executive Committee Meeting:	July 20, 2023

TREASURER'S REPORTS

The following items were ratified and approved as presented.

MWDOC Revenue/Cash Receipt Register as of July 31, 2023
Disbursement Registers (July/August)

The following items were received and filed as presented.

Summary of Cash and Investment and Portfolio Master Summary Report (Cash and Investment Report) as of June 30, 2023

PARS Monthly Statement (OPEB Trust)

FINANCIAL REPORT

The following items were received and filed as presented.

- Draft Combined Financial Statements and Budget Comparative for the Period Ending June 30, 2023
- Quarterly Budget Review (deferred to FY 2022-23 Audited Annual Financials)

REVIEW CANDIDATES FOR THE ASSOCIATION OF CALIFORNIA WATER AGENCIES' (ACWA) ELECTION OF PRESIDENT, VICE PRESIDENT AND REGION 10 BOARD OF DIRECTORS

The Board restated its prior vote to designate President Yoo Schneider, or her designee to cast the District's ballot within her discretion.

- END CONSENT CALENDAR –

ITEMS PULLED FROM THE CONSENT CALENDAR FOR FURTHER DISCUSSION

Director Nederhood commented on the Treasurer's Reports, highlighting that pursuant to the recently adopted (and amended) Reserve Policy, the member agencies were issued credits on their accounts totaling approximately $500,000. He commended the Board, staff, and agencies for the collaborative approach to revising the District's Reserve Policy.

MWDOC/OCWD JOINT PLANNING COMMITTEE MEETING REPORT FROM JULY 26, 2023

President Yoo Schneider advised that this item was inadvertently pulled from the Consent Calendar and suggested the Board vote on the item.

Upon MOTION by Director Thomas, seconded by Director Crane, and carried (7-0), the Board received and filed the meeting report from the MWDOC/OCWD Joint Planning Committee meeting (July 26, 2023), by the following roll call vote:

AYES:	Directors Nederhood, Dick, McVicker, Seckel, Crane, Thomas and Yoo Schneider
NOES :	None
ABSENT:	None
ABSTAIN:	None

ACTION CALENDAR

MWDOC'S RESPONSE LETTER TO ORANGE COUNTY GRAND JURY REPORT - *"HISTORIC RAIN, YET DROUGHT REMAINS"*

Dr. Melissa Baum-Haley, Director of MET Issues and Policy, provided an overview of MWDOC's response to the OC Grand Jury Report "Historic Rain, Yet Drought Remains" pursuant to comments received by the Board at the Administration & Finance Committee meeting.

Director Seckel asked that Findings Response 1 (F1- Future Water Supplies are Impacted By Climate Change and Current Supplies Will Not Meet Future Demands) be amended to reflect that MWDOC partially disagrees with the findings, and to include MET as part of the process in ensuring future demands are satisfied and additional supply investments are being developed.

The Board members commended staff for their preparation of an excellent response on behalf of MWDOC.

Upon MOTION by Director Thomas, seconded by Director Seckel, and carried (7-0), the Board approved (as revised above) MWDOC's response letter on the Orange County Grand Jury's findings and recommendations regarding its report entitled "Historic Rain, Yet Drought Remains" and have staff submit such a letter to the Presiding Judge of the Superior Court before September 5, 2023, by the following roll call vote:

AYES:	Directors Nederhood, Dick, McVicker, Seckel, Crane, Thomas and Yoo Schneider
NOES :	None
ABSENT:	None
ABSTAIN:	None

INFORMATION CALENDAR

GENERAL MANAGER'S REPORT, AUGUST 2023

Interim General Manager Harvey De La Torre advised that the full General Manager's report was included in the Board packet.

Mr. De La Torre reported that MET is in the process of overhauling its website to improve and expand its section on transparency, noting MET is using MWDOC's transparency section within our website as a model to follow. He commended staff for their efforts with not only the website, but efforts relating to the Transparency and District of Distinction awards received from the California Special Districts Association.

Director Crane congratulated Director Dick on his 20th anniversary as a MET Director.

The Board received and filed the report as presented.

MWDOC GENERAL INFORMATION ITEMS

a. BOARD OF DIRECTORS

The Board members each reported on their attendance at the regular (and special) MWDOC Board and Committee meetings. In addition to these meetings, the following reports were made on conferences and meetings attended on behalf of the District.

Director Nederhood advised that he attended all of the regularly scheduled MWDOC meetings (Planning & Operations, Administration & Finance, MWDOC/OCWD Joint Planning, and Executive Committee meetings, as well as the Workshop and Regular, and Special Board meetings), the WACO and WACO Planning meetings, a virtual Town Hall featuring the ACWA officer candidates, the OCWD Board meeting, the July MET Committees (2), and the July MET Board meeting.

Director Dick stated that he attended all of the regularly scheduled MWDOC meetings, (Planning & Operations, Administration & Finance, MWDOC/OCWD Joint Planning, and Executive Committee meetings, as well as the Workshop and Regular and Special Board meetings), the regularly scheduled MET Board and Committee meetings, the Southern California Water

Committee meeting, the ISDOC Executive Committee, the WACO and WACO planning meetings, the Ad Hoc Committee regarding the Grand Jury Report, a meeting with Mohsen Mortada (MET) regarding MET's desert housing and the Solar Cup, a meeting with Supervisor Wagner, and a meeting with Director of Public Affairs Damon Micalizzi regarding venue options for policy dinners. He also advised that he would be hosting (along with Director Seckel) an inspection trip (Orange County) for Grand Jury members.

Director McVicker reported that he attended all of the regularly scheduled MWDOC meetings (Planning & Operations, Administration & Finance, MWDOC/OCWD Joint Planning, and Executive Committee meetings, as well as the Workshop meeting and Regular and Special Board meetings), the ISDOC Executive Committee meeting, the Ad Hoc Committee regarding the GM Recruitment, the WACO meeting, the OCBC Infrastructure Committee meeting, and the MET Board and Committee meetings.

Director Seckel advised that he attended the regularly scheduled MWDOC meetings (Planning & Operations, Administration & Finance, MWDOC/OCWD Joint Planning, and Executive Committee meetings, as well as the Workshop and Regular and Special Board meetings), the regularly scheduled MET Board and Committee meetings, the WACO planning meeting, the OC Water Summit planning meeting(s), the MET Caucus, a presentation to the City of Huntington Beach regarding MET's One Water Award, a meeting with representatives from MNWD, and the YLWD Board meeting wherein he made a presentation on Colorado River issues. He noted that he has been meeting with the various MET delegations, and most recently Cynthia Kurz of Pasadena. Director Seckel encouraged all in attendance to download MET's 2023 Draft Long-Range Finance Plan Needs Assessment, and he acknowledged the upcoming retirement of ETWD Director Jose Vergara.

Director Crane reported that he attended the regularly scheduled MWDOC meetings (Planning & Operations, Administration & Finance, MWDOC/OCWD Joint Planning, and Executive Committee meetings, as well as the Workshop meeting and Regular and Special Board meetings), the Ad Hoc Committee regarding the Grand Jury Report, the OC Water Summit planning meeting(s), the ISDOC meeting, the WACO meeting, the MET meetings, and a roundtable discussion regarding environmental and conservancy issues, organized by Senator Dave Min.

Director Thomas noted that he attended most of the regularly scheduled MWDOC meetings, (the Planning & Operations, MWDOC/OCWD Joint Planning, and Executive Committee meetings, as well as the Workshop and Regular and Special Board meetings), the OC Water Summit planning meeting(s), the WACO meeting, the Ad Hoc Committee regarding the GM Recruitment, and a meeting with Doug Davert regarding various issues.

Director Yoo Schneider advised that she attended most of the regularly scheduled MWDOC meetings (Planning & Operations, Administration & Finance, and Executive Committee meetings, as well as the Workshop and Regular and Special Board meetings), the CCEEB conference, a meeting with MWDOC staff, the Ad Hoc Committee regarding the GM Recruitment, the WEF Diversity, Equity & Inclusion Board/Committee meeting, the SCWD Board meeting, a meeting with Laguna Beach Councilmember Rounaghi, the Festival of the Butterflies event, the SMWD Water Quality and Treatment Committee, and a public meeting of the Canyon Democrats.

a. REQUESTS FOR FUTURE AGENDA TOPICS

Director Seckel requested a presentation regarding MET's 2023 Draft Long-Range Finance Plan Needs Assessment be agendized in the near future.

ADJOURNMENT

There being no further business to come before the Board, President Yoo Schneider adjourned the meeting at 9:36 a.m.

Respectfully submitted,

_____
Maribeth Goldsby, Secretary

Item No. 2a

Street Address:
18700 Ward Street
Fountain Valley, California 92708

Mailing Address:
P.O. Box 20895
Fountain Valley, CA 92728-0895

(714) 963-3058
Fax: (714) 964-9389
www.mwdoc.com

Megan Yoo Schneider, P.E.
President

Bob McVicker, P.E., D.WRE
Vice President

Randall Crane, Ph.D.
Director

Larry D. Dick
Director

Al Nederhood
Director

Karl W. Seckel, P.E.
Director

Jeffery M. Thomas
Director

Harvey De La Torre
Interim General Manager

MEMBER AGENCIES

City of Brea
City of Buena Park
East Orange County Water District
El Toro Water District
Emerald Bay Service District
City of Fountain Valley
City of Garden Grove
Golden State Water Co.
City of Huntington Beach
Irvine Ranch Water District
Laguna Beach County Water District
City of La Habra
City of La Palma
Mesa Water District
Moulton Niguel Water District
City of Newport Beach
City of Orange
Orange County Water District
City of San Clemente
Santa Margarita Water District
City of Seal Beach
Serrano Water District
South Coast Water District
Trabuco Canyon Water District
City of Tustin
City of Westminster
Yorba Linda Water District

NOTICE OF CANCELLATION

PLANNING & OPERATIONS COMMITTEE MEETING

OF THE BOARD OF DIRECTORS
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

Notice is hereby given that due to a lack of quorum, the Planning & Operations Committee meeting of the Board of Directors of the Municipal Water District of Orange County (MWDOC) to be held on August 7, 2023 at 8:30 a.m. both-person at the District offices and via the Zoom webinar application, **is hereby canceled without transaction of business.**

Maribeth Goldsby, District Secretary
Municipal Water District of Orange County

August 3, 2023

DATE POSTED

MINUTES OF THE MEETING OF THE BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
Jointly with the
ADMINISTRATION & FINANCE COMMITTEE
August 9, 2023 – 8:30 a.m. to 10:02 a.m.

Director Dick called the meeting to order at 8:30 a.m. The meeting was held in-person at the District offices as well as including attendance via the Zoom Webinar application.

A&F Committee

Director Larry Dick, Chair
Director Jeff Thomas
Director Randy Crane

Staff:

Harvey De La Torre, Maribeth Goldsby, Michelle DeCasas, David Anderson, Joe Berg, Pari Francisco, Alex Heide, Katie Davanaugh, Charles Busslinger, Heather Baez, Cathy Harris, Hilary Chumpitazi, Damon Micalizzi, Vicki Osborn, Melissa Baum-Haley, Sarina Sriboonlue

Also Present:

Director Al Nederhood (via Zoom)
Director Bob McVicker
Director Megan Yoo Schneider
Director Karl Seckel
MWDOC Met Director Linda Ackerman

Brad Reese, Serrano Water District
Brett Barbre, Yorba Linda Water District
Chip Monaco, Santa Margarita Water District
Chuck Gibson, Santa Margarita Water District
Dennis Cafferty, El Toro Water District
Doug Reinhardt, Irvine Ranch Water District
Don Froelich, Moulton Niguel Water District
Diane Rifkin, Moulton Niguel Water District
Greg Mills, Serrano Water District
Jennifer Lopez, South Coast Water District
Jim Atkinson, Mesa Water
Jim Leach, Santa Margarita Water District
Jose Vergara, El Toro Water District
Kay Havens, El Toro Water District
Kristy Khachigian, KK Consulting
Keith Van der Maaten, Laguna Beach Co. Water
Marwan Khalifa, Mesa Water
Michael Perea, Trabuco Canyon Water District
Stacy Taylor, Mesa Water
Vu Chu, El Toro Water District
Emily Novak, San Diego Co. Water Authority
Paul Weghorst, Irvine Ranch Water District
Sherri Seitz, El Toro Water District

TELECONFERENCE SITE

Chair Dick advised that Director Nederhood was participating via teleconference location (all agenda requirements pursuant to the Ralph M. Brown Act requirements were complied with).

ROLL CALL

Secretary Goldsby conducted a roll call attendance of the Committee members with Directors Dick, Crane and Thomas acknowledging attendance for the Administration and Finance Committee; and Directors McVicker, Nederhood, Seckel and Yoo Schneider also present.

PUBLIC COMMENTS

No comments were received.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

No items were presented.

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING

The following item was distributed to the Board and made available to the public: Item 3 – draft response letter to the Orange County Grand Jury.

PROPOSED BOARD CONSENT CALENDAR ITEMS

TREASURER'S REPORT

a. Revenue/Cash Receipt Report – July 2023
b. Disbursement Approval Report for the month of August 2023
c. Disbursement Ratification Report for the month of July 2023
d. GM Approved Disbursement Report for the month of July 2023
e. Consolidated Summary of Cash and Investment – June 2023
f. OPEB and Pension Trust Fund statements

The Committee reviewed the Treasurer's Report. Upon MOTION by Director Thomas seconded by Director Crane and carried (3-0), the Committee recommended approval of the Treasurer's Report at the August 16, 2023 Board meeting. The vote was taken via roll call with Directors Dick, Crane and Thomas all voting in favor.

Director Nederhood called attention to the reserve fund credits issued to member agencies, as listed on the Treasure's Report.

FINANCIAL REPORT

a. Draft Combined Financial Statements and Budget Comparative for the Period Ending June 30, 2023

b. Quarterly Budget Review (deferred to FY 2022-23 Audited Annual Financials)

The Committee reviewed the Financial Report. Upon MOTION by Director Thomas, seconded by Director Crane and carried (3-0), the Committee recommended approval of the Financial Report at the August 16, 2023 Board meeting. The vote was taken via roll call with Directors Dick, Crane and Thomas all voting in favor.

ACTION ITEM

MWDOC'S RESPONSE LETTER TO ORANGE COUNTY GRAND JURY REPORT - "HISTORIC RAIN, YET DROUGHT REMAINS"

Interim General Manager, Harvey De La Torre, reported that he worked with staff to develop a draft response letter to the OC Grand Jury, as provided in the staff report.

Heather Baez, Director of Governmental Affairs, provided an overview of the OC Grand Jury's role and responsibilities, the selection process and a review of the duties. Under the California State Constitution, each county is required to empanel at least one Grand Jury each year. Jurors are screened, interviewed, and background checked from a pool of Orange County residents who have applied for the role and serve for a one-year term. Grand Jurors conduct and prepare their own reports.

Director Crane requested that a response be included in the letter to the OC Grand Jury on climate mitigation efforts that MWDOC is actively working on with the Metropolitan Water District within the Orange County service area.

Director Seckel provided input on the draft response letter, expressing that Orange County is not exclusively working on climate change mitigation efforts as this is a collective effort for the southern California region as a whole. Additionally, coordination efforts extend throughout the entire state. He also suggested that the OC Grand Jury be provided with an annual review letter so that they can be properly informed on current events and efforts. He also extended an invitation for the OC Grand Jury to participate in some of MWDOC's/Metropolitan water tours and related efforts. Director Thomas concurred.

Director Nederhood expressed dissatisfaction with the OC Grand Jury report and process but did support staff's responses and found them to be highly appropriate.

President Yoo Schneider stated she would like more time to consider and develop appropriate responses before she signs the letter so that they align with the Board's strategic priorities and provide additional detailed data and information.

Dr. Melissa Baum Haley reviewed the legal guidelines as to what is allowed vs. required in the District's responses to the OC Grand Jury. She also summarized the Committee's discussion of revised responses for inclusion in a subsequent draft letter for review and approval at the August 16, 2023 Board meeting.

- Clarify south Orange County's reliance on imported water and what is meant by substantial strides in local supply production
- Provide a graphic on who the "8 south Orange County water agencies" are; and integration with Metropolitan
- CAMP4W process should be included in response; "we are not an island" and highlight that there should be an integrated approach in efforts
- Financial implications
- Include written MWDOC strategic priorities more clearly
- Future efforts to better inform future OC Grand Juries
- Better define the appropriate response to Recommendation #4 from the OC Grand Jury

Director Crane departed the meeting (9:15 a.m.) President Yoo Schneider sat on the Committee in his absence.

This item was referred to the August 16, 2023 Board meeting for further review and action.

REVIEW CANDIDATES FOR THE ASSOCIATION OF CALIFORNIA WATER AGENCIES' (ACWA) ELECTION OF PRESIDENT, VICE PRESIDENT AND REGION 10 BOARD OF DIRECTORS

The Committee reviewed the staff report on the Candidates for the Association of California Water Agencies (ACWA) Election of President, Vice President and Region 10 Board of Directors. Upon MOTION by Director Thomas, seconded by Director Yoo Schneider and carried (3-0), the Committee recommended the Board President vote on behalf of the District, using her best discretion. This item will be presented to the Board on August 16, 2023. The vote was taken via roll call with Directors Dick, Yoo Schneider and Thomas all voting in favor.

Responding to a question from the Committee, it was noted that Georgetown Divide Utility District is located in northeastern California.

DISCUSSION ITEM

WEROC MOBILE EOC UPDATE

Vicki Osborn, Director of Emergency Management, provided a presentation on Emergency Response efforts including coordination and support needs. Her presentation included a summary of a recent drill held at District offices and she noted the importance of having a separate off-site facility. A full assessment has been conducted to develop a mobile Command station option. Ms. Osborn reviewed her efforts in gathering information and conducting research to obtain quotes for the mobile unit which were included in her staff report, as well as key benefits and capabilities of the unit. It was noted that the mobile unit will not be stored at District office, but rather at an offsite central location so that it can be utilized as a resource for all member agencies. The mobile unit will be an enhanced benefit to the emergency services that MWDOC already provides to member agencies and others within Orange County.

The Committee also reviewed the cost proposal of the Sprinter Mobile Command Center that was included in the staff report.

Interim General Manager De La Torre expressed thanks to Ms. Osborn for her tremendous efforts and outreach in continuing to provide excellent services to the District and water community.

The Committee requested that Ms. Osborn return with a refined staff report (in September) to include engine size and greater cost detail (for consideration and action by the Board).

INFORMATION ITEMS

WATER POLICY DINNER RECAP

Staff was directed to evaluate the cost charged for this event, given that the price for attendance has not increased in a number of years (factoring in inflation, parking and other cost factors).

OC WATER SUMMIT UPDATE

Director Thomas remarked on the cost of all events including the OC Water Summit, noting that audio/visual prices have increased significantly. Staff will consider expenses for all events to determine if a cost increase for attendance is appropriate. The report was received and filed.

SEMI-ANNUAL OVERTIME REPORT

The report was received and filed.

DIRECTORS ACTIVITIES REPORT

The report was received and filed.

DEPARTMENT ACTIVITIES REPORTS

a. Administration
b. Finance and Information Technology

The report was received and filed.

MONTHLY WATER USAGE DATA AND WATER SUPPLY INFORMATION

The report was reviewed and received and filed.

OTHER ITEMS

REVIEW ISSUES REGARDING DISTRICT ORGANIZATION, PERSONNEL MATTERS, EMPLOYEE BENEFITS FINANCE AND INSURANCE

President Yoo Schneider suggested that a conversation be held by staff and Board on the OC Water Summit, policy dinners, and various other events that the District sponsors to determine which are most beneficial to those that participate and attend.

ADJOURNMENT

There being no further business brought before the Administration & Finance Committee, the meeting was adjourned at 10:02 a.m.

MINUTES OF THE MEETING OF THE
BOARD OF DIRECTORS OF THE
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
jointly with the
EXECUTIVE COMMITTEE
August 17, 2023, 8:30 a.m. to 9:25 a.m.
Conference Room 101

Committee:
Director Yoo Schneider, President
Director McVicker, Vice President
Director Dick, Immediate Past President

Staff:
H. De La Torre, M. Goldsby,
D. Micalizzi, M. Baum-Haley

Also Present:
Director Nederhood
Director Seckel
Director Crane
Director Thomas (absent)
Linda Ackerman, MWDOC/MET Dir.
Dennis Erdman, MWDOC/MET Dir.

Don Froelich, MNWD
Sherry Wanninger, MNWD
Mike Markus, OCWD
Jim Leach, SMWD
Dick Ackerman, Ackerman Consulting
Peter Whittingham, WPA
Kristy Khachigian, KK Consulting

As President Yoo Schneider was arriving late, Vice President McVicker called the meeting to order at 8:30 a.m. The meeting was held in-person at the District offices as well as including attendance via the Zoom Webinar application. Secretary Goldsby called the roll, with Committee members McVicker and Dick. Directors Nederhood, Seckel, and Crane were also present. President Yoo Schneider arrived at 8:45 a.m.

PUBLIC PARTICIPATION

No items were presented.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

No items were presented.

ITEMS DISTRIBUTED TO THE BOARD LESS THAN 72 HOURS PRIOR TO MEETING

Secretary Goldsby advised that the draft agendas for the upcoming month were distributed to the Board and made available to the public.

EXECUTIVE COMMITTEE REVIEW OF FUTURE AGENDAS

The Committee reviewed and discussed the draft agendas for each of the meetings and made revisions/additions as listed below.

a. Planning & Operations Committee

No new items were added to the agenda.

b. Workshop Board Meeting

No new items were added to the agenda, however it was requested that a link to MET's 2023 Draft Long-Range Financial Plan Needs Assessment be distributed to MWDOC's member agencies (letting them know this item would be discussed at the September 6th meeting.

c. Administration & Finance Committee

Interim General Manager Harvey De La Torre advised that the presentation by PARS regarding the OPEB trust and pension rate stabilization program was deferred to October to accommodate the consultant's schedule.

Director Dick referenced the annual MWDOC Water Facilities Corporation (WFC) meeting, suggesting that Directors Crane and Nederhood be appointed as officers of WFC.

Discussion was held regarding the history of the WFC, and Director Seckel asked that staff forward information (prospectus and a PowerPoint presentation (2005) outlining the key dates and history of WFC) to the Board.

DISCUSSION REGARDING UPCOMING ACTIVITIES OF SIGNIFICANCE

Interim General Manager Harvey De La Torre advised that per the Board's direction, staff arranged a tour of Orange County facilities (MET's Diemer Water Treatment Plant, ETWD, and SCWD's Doheny Project site) for the 2023-24 OC Grand Jury members; the tour will be held August 29, 2023.

Director of Public Affairs Damon Micalizzi outlined the draft itinerary for the tour, noting that MET Directors Dick and Seckel would host; it was determined that Director Crane would attend in President Yoo Schneider's place as she was not able to attend.

Considerable discussion ensued regarding the content of the tour and the opportunity to educate the OC Grand Jury on OC water issues/projects.

Director Crane suggested that in the future, the Board may wish to establish a "Community Education Day" (for other groups as well as future OC Grand Jury members) similar to the events outlined in the tour. President Yoo Schneider commented that she has been working with Mr. De La Torre on creating an Ambassador Program similarly targeting key community stakeholders. Director Dick highlighted the need to create a specific budget line-item for these types of programs.

Director Nederhood referenced the District's Outreach Program, and asked that links to the Department of Motor Vehicles (DMV) advertisements be sent to the Board for viewing.

MEMBER AGENCY RELATIONS

Mr. De La Torre reported that retiring Director Jose Vergara would be recognized at ETWD's Board meeting on August 24th at 7:30 a.m.

He also advised that (1) the District received the questionnaire from the consultant regarding the LAFCO MSR Focused Study and that staff is in the process of gathering the necessary information to respond to the questionnaire; and (2) MWDOC and OCWD would participate in a roundtable discussion with SMWD on August 18, 2023.

With respect to the LAFCO MSR Focused Study, it was reported that the Ad Hoc Committee regarding the OC Grand Jury report suggested the Board consider authorizing an independent study regarding the issues outlined in the report (consolidation, etc.), with Mr. De La Torre advising that this issue would be introduced to the member agency managers for feedback.

Considerable discussion ensued regarding the flaws in the OC Grand Jury report, and that an independent study would focus on improving coordination of wholesale water in Orange County by addressing all of the outstanding issues (efficiency and effectiveness).

GENERAL MANAGER'S REPORTS

Mr. De La Torre then advised that he is working with management staff on developing an implementation plan for the Board's strategic priorities.

Mr. De La Torre also reported that MNWD has offered to house WEROC as a temporary EOC and that a draft letter of intent is being developed to outline terms; this item will be presented to the Board in October.

REVIEW AND DISCUSS DISTRICT AND BOARD ACTIVITIES

Mr. De La Torre advised that MET adopted modifications to its "Cyclic Offset Program" which benefits groundwater agencies and would allow OCWD to store water; it was noted that MWDOC extended an invitation for OCWD to participate in all of the MET hosted meetings to discuss groundwater issues.

ADJOURNMENT

There being no further business to be brought before the Committee, the meeting adjourned at 9:37 a.m.

Municipal Water District of Orange County
REVENUE / CASH RECEIPT REPORT
August 2023

WATER REVENUES

Date	From	Description	Amount
8/07/2023	City of Buena Park	June 2023 Water deliveries	130,165.61
8/07/2023	City of La Palma	June 2023 Water deliveries	672.34
8/07/2023	Santa Margarita Water District (ID9)	June 2023 Water deliveries	756,221.99
8/07/2023	Santa Margarita Water District	June 2023 Water deliveries	1,898,009.67
8/07/2023	Trabuco Canyon Water District	June 2023 Water deliveries	21,178.13
8/10/2023	City of Garden Grove	June 2023 Water deliveries	60,930.36
8/11/2023	Irvine Ranch Water District	June 2023 Water deliveries	410,981.29
8/14/2023	East Orange Co Water District	June 2023 Water deliveries	607,305.24
8/14/2023	City of Orange	June 2023 Water deliveries	251,739.20
8/15/2023	Golden State Water Company	June 2023 Water deliveries	805,519.16
8/15/2023	Laguna Beach County Water District	June 2023 Water deliveries	335,820.43
8/15/2023	Moulton Niguel Water District	June 2023 Water deliveries	1,884,180.25
8/15/2023	Orange County Water District	June 2023 Water deliveries	295,065.15
8/15/2023	Yorba Linda Water District	June 2023 Water deliveries	284,533.44
8/21/2023	Mesa Water District	June 2023 Water deliveries	104.62
8/23/2023	City of Westminster	July 2023 Water deliveries	11,513.50
8/25/2023	City of Huntington Beach	July 2023 Water deliveries	602,106.86
8/28/2023	City of Fountain Valley	July 2023 Water deliveries	3,325.69
8/28/2023	City of La Habra	July 2023 Water deliveries	23,243.59
8/28/2023	City of Newport Beach	July 2023 Water deliveries	43,313.18
8/31/2023	Laguna Beach County Water District	July 2023 Water deliveries	407,791.72
		TOTAL WATER REVENUES	**$ 8,833,721.42**

Municipal Water District of Orange County
REVENUE/ CASH RECEIPT REPORT
August2023

MISCELLANEOUS REVENUES

Date	From	Description	Amount
8/31/2023	Riverside Unified School District	10/13/2023 OC Water Summit registrations	450.00
8/07/2023	Kart Seckel	August 2023 Retiree Health Insurance	164.29
8/07/2023	Patricia Meszaros	August 2023 Retiree Health insurance	30.77
8/24/2023	Stan Sprague	September 2023 Retiree Health insurance	164.29
8/31/2023	Keith Lyon	September 2023 Retiree Health insurance	184.29
8/31/2023	Patricia Meszaros	SeP-Oct 2023 Retiree Health insurance	59.26
8/02/2023	WePay	Scouts BSA Clinic	309.15
8/21/2023	US Bank Custodial Account	Capital One, Chase Bank, Goldman Sachs and Societe Generale Interest payment	9,227.39
8/28/2023	US Bank Custodial Account	Bank of America and FHLB Interest payment	1,593.75
8/31/2023	US Bank	Monthly Interest	113.52
8/07/2023	ACWA-JPIA	2023 Wellness grant	1,520.00
8/18/2023	Irvine Ranch Water District	June 2023 Smartimer rebate program	19.00
8/02/2023	City of La Habra	June 2023 Turf Removal rebate program	111.00
8/04/2023	2 Checks	June 2023 Turf Removal rebate program	222.00
8/07/2023	City of Buena Park	June 2023 Turf Removal rebate program	333.00
8/10/2023	City of Westminster	June 2023 Turf Removal rebate program	222.00
8/09/2023	City of Newport Beach	May 2023 Turf Removal and Spray to Drip rebate program	333.00
8/18/2023	Irvine Ranch Water District	June 2023 Turf Removal and Spray to Drip rebate program	40,600.92
8/07/2023	Moulton Niguel Water District	June 2023 Smartimer and High Efficiency Clothes Washers rebate program	9,379.00
8/24/2023	El Toro Water District	June 2023 High Efficiency Clothes Washers and Toilets rebate program	405.00
8/21/2023	Department of Water Resources	Prop 1 grant Upfront funding	12,525.39
8/14/2023	Metropolitan Water District	5/2021-7/2022 Future Supply Actions program	36,337.69
8/02/2023	City of Anaheim	Water Loss Control Shared Services FY 2022-23	94,626.00
8/25/2023	City of Fullerton	Water Loss Control Shared Services FY 2023-24	24,990.00
8/04/2023	City of Garden Grove	Water Loss Control Shared Services FY 2023-24	20,464.00
8/04/2023	City of La Habra	Water Loss Control Shared Services FY 2023-24	6,652.00
8/09/2023	City of Newport Beach	Water Loss Control Shared Services FY 2023-24	3,900.00
8/21/2023	City of Santa Ana	Water Loss Control Shared Services FY 2023-24	45,990.00
8/16/2023	South Coast Water District	Water Loss Control Shared Services FY 2023-24	16,082.00
6/07/2023	Yorba Linda Water District	Water Loss Control Shared Services FY 2023-24	14,300.00
6/16/2023	El Toro Water District	Water Loss Control Technical Assistance CY 2023 - E Source	10,120.00
6/07/2023	City of Buena Park	Water Loss Control Technical Assistance CY 2023 - E Source	36,160.00
6/09/2023	City of Newport Beach	Water Loss Control Technical Assistance CY 2023 - E Source	15,420.00
6/07/2023	Trabuco Canyon Water District	Water Loss Control Technical Assistance CY 2023 - E Source	23,864.67
6/07/2023	Yorba Linda Water District	Water Loss Control Technical Assistance CY 2023 - E Source	10,120.00
6/21/2023	Golden State Water Company	FY 2023-24 Choice Programs Billing invoice	12,523.14
6/23/2023	City of Westminster	FY 2023-24 Choice Programs Billing invoice	26,974.52
6/24/2023	East Orange Co Water District	FY 2023-24 Choice Programs Billing invoice	2,501.99
6/24/2023	Mesa Water District	FY 2023-24 Choice Programs Billing invoice	40,616.38
6/25/2023	City of Brea	FY 2023-24 Choice Programs Billing invoice	21,386.50
6/28/2023	City of La Habra	FY 2023-24 Choice Programs Billing Invoice	13,000.59
6/31/2023	Laguna Beach County Water District	FY 2023-24 Choice Programs Billing invoice	7,221.21
8/04/2023	City of Garden Grove	FY 2023-24 Annual Retail Service Connection Charge with Reserve fund credit	462,372.30
8/04/2023	City of San Clemente	FY 2023-24 Annual Retail Service Connection Charge with Reserve fund credit	237,594.67
8/07/2023	City of La Palma	FY 2023-24 Annual Retail Service Connection Charge with Reserve fund credit	59,034.01
6/07/2023	Santa Margarita Water District (109)	FY 2023-24 Annual Retail Service Connection Charge with Reserve fund credit	145,714.47
8/07/2023	Santa Margarita Water District	FY 2023-24 Annual Retail Service Connection Charge with Reserve fund credit	742,550.87
6/07/2023	Trabuco Canyon Water District	FY 2023-24 Annual Retail Service Connection Charge with Reserve fund credit	55,319.91
6/10/2023	City of La Habra	FY 2023-24 Annual Retail Service Connection Charge with Reserve fund credit	175,494.84
8/07/2023	City of Santa Ana	Jan-Jun 2023 School Billing	58,303.81
8/10/2023	City of Anaheim	Jan-Jun 2023 School Billing	10,712.00
8/07/2023	Eastern Municipal Water District	WEEA Sponsorship FY 2023-24	5,000.00
8/04/2023	South Coast Water District	20% Usage Fee for the OC Regional Distribution System Hydraulic Model for the Doheny Desalination Plant	8,776.00
8/24/2023	City of Anaheim	WEROC Funding for FY 2023-24	22,024.80
8/10/2023	SOCWA	WEROC Funding for FY 2023-24	22,024.80

TOTAL MISCELLANEOUS REVENUES $ 2,574,402.39
TOTAL REVENUES $11,408,123.81

Harvey De La Torre, Interim General Manager

Hilary Chumpitazi, Treasurer

Municipal Water District of Orange County
Disbursement Approval Report
For the month of September 2023

Vendor/ Invoice	Description	Amount to Pay
Core Disbursements:		
Accent Computer Solutions LLC		
158601	Deposit for Watchguard firewall	2,800.00
Total		**2,800.00**
ACCO Engineered Systems		
20448383	Repair possible leak and clean vents in server room	780.00
20452812	09/01/23-11/30/23 HVAC preventative maintenance	1,882.00
Total		**2,662.00**
Ackerman Consulting-Richard C Ackerman		
1382	August 2023 Legal and regulatory specialized consulting services	3,500.00
Total		**3,500.00**
Alta FoodCraft		
12328945	August 2023 Coffee and tea supplies	117.49
Total		**117.49**
Brown and Caldwell		
12490605	July 2023 Hydraulic model work services for Moulton Niguel Water District	2,901.88
Total		**2,901.88**
Bryton Printing Inc		
17372	Scouts BSA Printing Workbooks for the 2023-2024 season	1,162.87
Total		**1,162.87**
CDM Smith		
90184545	July 2023 Services for water resource planning	8,871.50
90186037	August 2023 Services for water resource planning	969.00
Total		**9,840.50**
CDW Government		
LP06761	Crowdstrike Falcon Malware/Ransomeware protection Annual Service	44,772.09
Total		**44,772.09**
Demsey Filliger & Associates LLC		
202308092053	GASB 75 Supplemental Schedule reports for retiree health insurance program as of June 30, 2023	750.00
Total		**750.00**

Municipal Water District of Orange County
Disbursement Approval Report
For the month of September 2023

Vendor/ Invoice	Description	Amount to Pay
Dopudja & Wells Consulting Inc		
1286	July 2023 Senior Advisory Consulting Services for State and Federal Legislative and Policy Matters	7,872.50
1293	August 2023 Senior Advisory Consulting Services for State and Federal Legislative and Policy Matters	6,867.50
Total		**14,740.00**
E Source Companies LLC		
11104	July 2023 Technical Assistance Program services for Water Loss Control	6,660.00
Total		**6,660.00**
ECS Imaging Inc		
18095	Annual Laserfiche Software Licenses and Support Renewal	6,403.00
Total		**6,403.00**
GovConnection Inc		
25539713	Annual Adobe Acrobat, Creative Cloud and Enterprise software renewals	9,712.74
74447862	ArcServe Cloud backup services for servers and data annual renewal	4,427.70
Total		**14,140.44**
Green Thumb (Indoor Plant Care) LLC-Dedo Verde Interior		
20230866	September 2023 Indoor plant service	305.50
Total		**305.50**
Hashtag Pinpoint Corporation		
1770	August 2023 Social Media consultation and services	7,913.00
Total		**7,913.00**
KnowBe4 Inc		
INV272268	Security awareness training software two year subscription renewal	1,547.52
Total		**1,547.52**
Lawnscape Systems Inc		
440067	August 2023 Landscape Maintenance for Atrium	495.00
Total		**495.00**
Natural Resource Results LLC		
4527	August 2003 Federal Advocacy Agreement services	8,000.00
Total		**8,000.00**
NDS		
822530	08/04/23 Board packet delivery service	134.72
822583	08/11/23 Board packet delivery service	134.72
Total		**269.44**

Municipal Water District of Orange County
Disbursement Approval Report
For the month of September 2023

Vendor/ Invoice	Description	Amount to Pay
ODP Business Solutions LLC		
320608944001	08/03/23 Office supplies	78.85
326289626001	08/10/23 Office supplies	59.01
Total		**137.86**
Office Solutions		
I-02148225	08/10/23 Office supplies	83.01
I-02148228	08/10/23 Office supplies	27.26
I-02148411	08/11/23 Business cards for staff	51.93
I-02148622	08/11/23 Office supplies	17.51
I-02151731	08/23/23 Business cards for staff	51.93
Total		**231.64**
Orange County Water District		
25648	July 2023 Postage, shared office & maintenance expense	5,334.13
Total		**5,334.13**
PeopleSpace		
INV79228A	Furniture for MWDOC office	1,510.56
Total		**1,510.56**
Production Access Group Inc		
3778	Audio recording system in conference room for board meetings	959.40
Total		**959.40**
Roth Staffing Companies LP		
16055236	08/13/23 Week ending Temporary Employee Services in Finance	2,224.44
16058048	08/20/23 Week ending Temporary Employee Services in Finance	2,471.60
16060804	08/27/23 Week ending Temporary Employee Services in Finance	2,471.60
Total		**7,167.64**
Soto Resources-Joey C Soto		
GA-JUL-77	July 2023 Grant Research and Acquisition Services	3,250.00
GA-AUG-78	August 2023 Grant Research and Acquisition Services	4,578.75
Total		**7,828.75**
State of California, Registry of Charitable Trusts		
082223	Annual Registration Renewal Fee	25.00
Total		**25.00**
Pauline D Wennerstrom		
93023	July-September 2023 Retiree medical premium	494.70
Total		**494.70**

Municipal Water District of Orange County
Disbursement Approval Report
For the month of September 2023

Vendor/ Invoice	Description	Amount to Pay
Whittingham Public Affairs Advisors		
2111	September 2023 guidance services on local & regional issues	7,500.00
Total		**7,500.00**
Total Core Expenditures		**160,170.41**

Choice Expenditures:

Bryton Printing		
17387	Water Use Efficiency Fall 2023 bill inserts for member agencies	3,948.02
Total		**3,948.02**
GardenSoft Corp		
5874	Water wise gardening website upgrades and improvements to 50%	2,000.00
Total		**2,000.00**
Mission RCD		
3390	August 2023 Field inspection and verification for Water Use Efficiency rebate programs	7,336.41
Total		**7,336.41**
Office Solutions		
I-02148218	08/10/23 Supplies for Water Loss Control Shared Services	56.93
Total		**56.93**
Orange County Water District		
25648	July 2023 Postage for Water Use Efficiency rebate programs	66.60
Total		**66.60**
Westerly Meter Service Co.		
17393	August 2023 Meter Accuracy Testing, Fountain Valley	930.00
Total		**930.00**
Total Choice Expenditures		**14,337.96**

Other Funds Expenditures:

E Source Companies LLC		
11104	July 2023 Technical Assistance Program services for Water Loss Control	9,170.00
Total		**9,170.00**

Municipal Water District of Orange County
Disbursement Approval Report
For the month of September 2023

Vendor/ Invoice	Description	Amount to Pay
Mission RCD		
3390	August 2023 Field inspection and verification for Water Use Efficiency rebate programs	7,613.36
Total		**7,613.36**
Motorola Solutions Inc		
8281699232	August 2023 WEROC 800MHz Radios and accessories	246.91
Total		**246.91**
The Plant Nerd		
8120	August 2023 Landscape Design and Landscape Maintenance Assistance Program	10,460.00
Total		**10,460.00**
Santa Margarita Plumbing & Air		
16167-34661	July 2023 Services for Pressure Regulating Valve program	1,275.96
Total		**1,275.96**
Soto Resources-Joey C Soto		
SA-AUG-79	August 2023 9112 Grant Administration Services for Prop 1 North	742.50
Total		**742.50**
TerraWorks Studio		
MW0024	August 2023 Landscape Design and Landscape Maintenance Assistance Program	2,700.00
Total		**2,700.00**
Total Other Funds Expenditures		**32,208.73**
Total Expenditures		**206,717.10**

Municipal Water District of Orange County
Disbursement Ratification Report
For the Month of August 2023

Name/ Date	Check/ EFT	Invoice	Description	Amount
Core Disbursements:				
Heather Baez				
8/15/2023	EFT	71123	July 2023 Business expense	150.78
Total				**150.78**
Corodata Records Management Inc				
8/15/2023	EFT	RS4931490	July 2023 Records Storage Fee	65.14
Total				**65.14**
Harvey De La Torre				
8/31/2023	EFT	71523	July 2023 Business expense	30.65
Total				**30.65**
Larry Dick				
8/31/2023	EFT	72623	July 2023 Business expense	94.32
Total				**94.32**
Lina Gunawan				
8/31/2023	EFT	61923	June 2023 Business expense	20.00
Total				**20.00**
Claire Johnson				
8/31/2023	EFT	73123	July 2023 Business expense	28.30
Total				**28.30**
Robert McVicker				
8/31/2023	EFT	72623	July 2023 Business expense	23.58
Total				**23.58**
Moulton Niguel Water District				
8/31/2023	142618	5180088	05/2021-07/2022 Future Supply Actions program	28,753.26
Total				**28,753.26**
Al Nederhood				
8/31/2023	EFT	72623	July 2023 Business expense	222.81
Total				**222.81**
Petty Cash				
8/15/2023	142528	62823	May-June 2023 Petty cash reimbursement	199.57
Total				**199.57**
Ricoh USA Inc				
8/31/2023	EFT	5067795815	05/01/23-07/31/23 Ricoh copier maintenance	1,688.88
Total				**1,688.88**

Municipal Water District of Orange County
Disbursement Ratification Report
For the Month of August 2023

Name/ Date	Check/ EFT	Invoice	Description	Amount
Karl Seckel				
8/31/2023	EFT	72623	July 2023 Business expense	62.23
Total				**62.23**
Nathan Shepherd				
8/31/2023	EFT	73123	July 2023 Business expense	30.91
Total				**30.91**
Spectrum Business				
8/21/2023	142531	343564081023	August 2023 Telephone expense for one fax line	39.99
8/07/2023	142515	375210073023	August 2023 Telephone and internet expense	1,721.33
Total				**1,761.32**
Jeffery Thomas				
8/31/2023	EFT	72823	July 2023 Business expense	119.21
Total				**119.21**
US Bank				
8/21/2023	142532	2978/4192/8910-JUL23	06/23/23-07/24/23 Cal Card Charges	11,437.72
Total				**11,437.72**
Verizon Wireless				
8/07/2023	142516	9940372235	July 2023 4G Mobile broadband unlimited service	114.03
Total				**114.03**
Total Core Disbursements				**44,802.71**

Choice Disbursements:

Tina Dubuque				
8/31/2023	EFT	72823	July 2023 Business expense	425.00
Total				**425.00**
Hugo Escamilla				
8/31/2023	EFT	71323	July 2023 Business expense	201.17
Total				**201.17**
Petty Cash				
8/15/2023	142528	62823	May-June 2023 Petty cash reimbursement	20.00
Total				**20.00**
US Bank				
8/21/2023	142532	8910-JUL23	06/23/23-07/24/23 Cal Card Charges	2,382.83
Total				**2,382.83**

Municipal Water District of Orange County
Disbursement Ratification Report
For the Month of August 2023

Name/ Date	Check/ EFT	Invoice	Description	Amount
US Bank Voyager Fleet Systems				
8/15/2023	EFT	8694349932330	06/25/23-07/24/23 Fuel for Water Loss Control Shared Services Vehicles	480.93
Total				**480.93**
Total Choice Disbursements				**3,509.93**

Other Funds Disbursements:

AT&T				
8/15/2023	142519	20293862	July 2023 Telephone expense for WEROC Primary & N. EOC	489.19
Total				**489.19**
Metropolitan Water District				
45169	EFT083123	11179	June 2023 Water deliveries	9,345,350.67
Total				**9,345,350.67**
Santa Margarita Water District				
8/31/2023	EFT	63023	June 2023 SCP Operation Surcharge	25,982.06
Total				**25,982.06**
Santiago Aqueduct Commission				
8/31/2023	142619	63023	June 2023 SAC Pipeline Operation Surcharge	1,702.91
Total				**1,702.91**
Spray to Drip Rebate				
8/30/2023	142565	S2D6-C-LH-48768-19611	La Retail 1 LLC (La Habra)	23,329.50
8/30/2023	142567	S2D6-C-MNT-4463-20704	Laguna Heights Comm Assc (Laguna Niguel)	3,966.90
8/30/2023	142553	S2D6-C-SB-49210-19347	Golden Rain Foundation (Seal Beach)	1,811.50
8/30/2023	142593	S2D6-R-BREA-49268-19354	W. Skaggs	715.50
8/30/2023	142561	S2D6-R-BREA-50913-20701	A. Ibarra	551.50
8/30/2023	142545	S2D6-R-GSWC-51500-21995	H. Dinh	373.50
8/30/2023	142534	S2D6-R-HB-46798-19608	D. Auyeung-Kim	1,282.00
8/30/2023	142588	S2D6-R-IRWD-49846-20706	J. Saikami	1,804.80
8/30/2023	142592	S2D6-R-IRWD-51071-21834	Y. Shin	2,041.60
8/30/2023	142609	S2D6-R-IRWD-51126-21929	H. Wu	281.28
8/30/2023	142543	S2D6-R-MESA-47758-21904	D. Deveaux	279.00
8/30/2023	142577	S2D6-R-MESA-51484-21988	K. Millian	682.50
8/30/2023	142563	S2D6-R-O-48660-19169	R. Ito	1,158.00
8/30/2023	142558	S2D6-R-O-48943-21818	N. Hughes	392.00
8/30/2023	142597	S2D6-R-O-48978-19345	T. Thomas	1,747.50
8/30/2023	142582	S2D6-R-O-50919-21925	G. Piper	733.50
8/30/2023	142538	S2D6-R-SC-51378-21918	C. Cowell	1,290.00

Municipal Water District of Orange County
Disbursement Ratification Report
For the Month of August 2023

Name/ Date	Check/ EFT	Invoice	Description	Amount
Spray to Drip Rebate - Continued				
8/30/2023	142573	S2D6-R-SM-49028-19276	M. Lynch	403.50
8/30/2023	142611	S2D6-R-YLWD-49183-19400	M. Zuro	1,029.97
8/30/2023	142605	S2D6-R-YLWD-51562-22040	I. Vigh	530.00
Total				**44,404.05**
Turf Rebate				
8/30/2023	142587	TR14-R-O-42115-40857	M. Richardson	2,886.00
8/30/2023	142554	TR15-C-IRWD-47890-46466	Good Shepherd Lutheran Church (Irvine)	79,890.00
8/30/2023	142537	TR15-C-MESA-47033-46592	CJ Segerstrom & Sons (Costa Mesa)	13,306.00
8/30/2023	142570	TR15-R-IRWD-47810-46392	J. Lee	480.00
8/30/2023	142556	TR15-R-LB-47692-46275	T. Hayes	2,180.00
8/30/2023	142544	TR15-R-MESA-47758-46343	D. Deveaux	1,674.00
8/30/2023	142600	TR15-R-O-44666-43309	A. Torres	4,083.00
8/30/2023	142557	TR15-R-SM-47072-46040	W. Henry	2,562.00
8/30/2023	142607	TR15-R-TUST-47528-46110	S. Whitehead	6,561.00
8/30/2023	142586	TR16-C-BP-49174-49860	Prologis California I LLC (Buena Park)	7,446.00
8/30/2023	142608	TR16-C-IRWD-49870-49939	Woodbridge Village Assc (Irvine)	6,780.00
8/30/2023	142603	TR16-C-IRWD-51143-49729	Turtle Rock Crest Maint Assc (Irvine)	10,430.00
8/30/2023	142566	TR16-C-LH-48768-47404	La Retail 1 LLC (La Habra)	18,464.00
8/30/2023	142533	TR16-C-MNT-44612-49758	Aliso Viejo Comm Assc (Aliso Viejo)	26,460.00
8/30/2023	142568	TR16-C-MNT-4463-49502	Laguna Heights Comm Assc (Laguna Niguel)	18,873.00
8/30/2023	142599	TR16-C-SM-42684-47342	Tierra Linda Maint Corp (Rancho Santa Margarita)	14,620.00
8/30/2023	142594	TR16-R-BREA-48967-47491	W. Skaggs	3,507.00
8/30/2023	142562	TR16-R-BREA-50913-49486	A. Ibarra	2,445.00
8/30/2023	142552	TR16-R-FV-51086-49669	J. Gibbons	2,438.74
8/30/2023	142546	TR16-R-GSWC-51500-49959	H. Dinh	2,007.00
8/30/2023	142535	TR16-R-HB-46798-48259	D. Auyeung-Kim	6,459.00
8/30/2023	142621	TR16-R-HB-51129-49716	M. Van Daele	3,432.00
8/30/2023	142595	TR16-R-IRWD-48098-46658	W. Sproule	1,440.00
8/30/2023	142536	TR16-R-IRWD-48560-47090	B. Carrillo	8,548.60
8/30/2023	142589	TR16-R-IRWD-49846-48396	J. Saikami	4,590.00
8/30/2023	142610	TR16-R-IRWD-51126-49713	H. Wu	1,470.00
8/30/2023	142591	TR16-R-LH-49693-48227	I. Setiabudi	975.00
8/30/2023	142555	TR16-R-MESA-48794-47312	A. Hanna	2,322.00
8/30/2023	142576	TR16-R-MESA-51009-49580	W. McCarty	2,415.00
8/30/2023	142578	TR16-R-MESA-51042-49622	K. Millian	1,806.00
8/30/2023	142596	TR16-R-MESA-51408-49858	W. Tanem	2,316.00
8/30/2023	142601	TR16-R-MNT-47303-49595	L. Tran	2,324.00
8/30/2023	142542	TR16-R-MNT-49387-47905	C. DePfyffer	8,364.00
8/30/2023	142584	TR16-R-MNT-49574-48088	A. Portalatin	3,000.00
8/30/2023	142569	TR16-R-MNT-50987-49551	S. Laruffa	3,412.00
8/30/2023	142571	TR16-R-MNT-50990-49884	A. Little	1,876.00
8/30/2023	142580	TR16-R-MNT-51084-49665	K. Moyer	3,260.00
8/30/2023	142547	TR16-R-MNT-51140-49726	A. DiSanzo	1,216.00
8/30/2023	142541	TR16-R-MNT-51497-49955	S. Davis	2,708.00
8/30/2023	142560	TR16-R-MNT-51700-50172	D. Hunt	1,728.00

Municipal Water District of Orange County
Disbursement Ratification Report
For the Month of August 2023

Name/ Date	Check/ EFT	Invoice	Description	Amount
Turf Rebate - Continued				
8/30/2023	142575	TR16-R-NWPT-49550-48069	J. Marsh	1,377.00
8/30/2023	142559	TR16-R-O-48943-47476	N. Hughes	2,097.00
8/30/2023	142598	TR16-R-O-48978-47501	T. Thomas	6,003.00
8/30/2023	142583	TR16-R-O-50919-49496	G. Piper	3,345.00
8/30/2023	142550	TR16-R-O-51351-49794	D. Friedl	3,555.00
8/30/2023	142549	TR16-R-O-51458-49920	K. Ellis	2,114.73
8/30/2023	142602	TR16-R-SC-49549-48066	P. Tucci	2,709.00
8/30/2023	142539	TR16-R-SC-51378-49824	C. Cowell	2,652.00
8/30/2023	142585	TR16-R-SC-51465-49928	L. Potter	2,472.00
8/30/2023	142551	TR16-R-SC-51525-49988	J. Garvin	903.00
8/30/2023	142564	TR16-R-SM-47152-49815	A. Kim	2,417.30
8/30/2023	142574	TR16-R-SM-49028-47549	M. Lynch	1,377.00
8/30/2023	142581	TR16-R-SM-51486-49942	H. Ouyang	750.00
8/30/2023	142548	TR16-R-TUST-48065-46626	J. Dodson	3,883.52
8/30/2023	142572	TR16-R-WEST-51100-49686	J. Lostaunau	2,634.00
8/30/2023	142612	TR16-R-YLWD-49183-47732	M. Zuro	2,295.00
8/30/2023	142540	TR16-R-YLWD-49291-47806	J. Czech	3,960.00
8/30/2023	142590	TR16-R-YLWD-51073-49653	A. Sawyer	1,977.00
8/30/2023	142579	TR16-R-YLWD-51336-49774	J. Moser	1,620.00
8/30/2023	142606	TR16-R-YLWD-51562-50021	I. Vigh	3,705.00
Total				**342,600.89**
US Bank				
8/21/2023	142532	6066-JUL23	06/23/23-07/24/23 Cal Card Charges	2,816.08
Total				**2,816.08**
Verizon Wireless				
8/07/2023	142516	9940372235	July 2023 4G Mobile broadband unlimited service	76.02
Total				**76.02**
Total Other Funds Disbursements				**9,763,421.87**
Total Disbursements				**9,811,734.51**

Harvey De La Torre, Interim General Manager

Hilary Chumpitazi, Treasurer

Cal Card Charges
Statement Date: July 24, 2023
Payment Date: August 21, 2023

Date	Description	Amount
Interim General Manager Card:		
6/27/2023	CSDA General Manager Leadership Summit in Lake Tahoe, CA from June 24-27, 2023 - Meals for H. De La Torre and guests	334.79
6/28/2023	6/28/23 Meal for H. De La Torre meeting	27.06
7/07/2023	CCEEB Summer Issues Seminar in Olympic Valley, CA for July 20, 2023 - one-way Airfare for Director Yoo Schneider	193.58
7/07/2023	CCEEB Summer Issues Seminar in Olympic Valley, CA for July 16, 2023 - one-way Airfare for Director Yoo Schneider	193.89
7/10/2023	State Water Resource Control Board WUE Standards Workshop in Sacramento, CA from August 15-16, 2023 - Airfare for J. Berg	362.96
7/11/2023	CCEEB Summer Issues Seminar in Olympic Valley, CA from July 17-20, 2023 - Refund cancelled accommodations deposit for H. Baez	(325.70)
7/14/2023	Environmental Systems Research Institute User Conference in San Diego, CA from July 10-14, 2023 - Accommodations for R. Davis	1,348.10
7/19/2023	7/11-7/19/23 Meals for H. De La Torre's meetings	298.02
7/20/2023	CCEEB Summer Issues Seminar in Olympic Valley, CA from July 17-20, 2023 - Accommodations for Director Yoo Schneider	977.10
Total:		**3,409.80**
Administration Card:		
6/21/2023	Tanaka Farms vegetable baskets for six staff members from JPIA Wellness Grant	174.00
6/23/2023	Amazon gift cards for Turf Removal Rebate Program survey participants	1,000.00
6/24/2023	05/25/23-06/24/23 Web hosting service for Mwdoc.com	15.78
6/28/2023	Administration team building lunch	122.02
6/30/2023	Squarespace annual subscription for Water Loss Control Shared Services	192.00
6/30/2023	Sexual Harassment Avoidance training for four staff members	69.57
7/05/2023	Two Windows 11 Pro O/S upgrade licenses for staff laptops	199.98
7/06/2023	Two Windows 11 Pro O/S upgrade licenses for staff laptops	199.98
7/06/2023	Purchase 400 additional envelopes from DocuSign	1,876.80
7/10/2023	Employee five-year anniversary gift card	25.00
7/11/2023	Sacramento Bee annual subscription renewal	159.99
7/17/2023	Windows 11 Pro O/S upgrade license for staff laptop	99.99
7/17/2023	Water Use Efficiency team recognition lunch	26.86
7/17/2023	Four tires with mounting for Water Loss Control Shared Services truck	1,070.83
7/19/2023	Water Use Efficiency team recognition lunch	205.00
7/19/2023	ESRI 1,000 ArcGIS Online Credits for Water Loss Control Shared Services	120.00
7/19/2023	E-waste pickup of obsolete computer surplus with Certificate of Destruction	152.00
7/22/2023	MWDOC office carpet cleaning	800.00
Total:		**6,509.80**

Cal Card Charges
Statement Date: July 24, 2023
Payment Date: August 21, 2023

Date	Description	Amount
Public Affairs Card:		
5/19/2023	Promotional Items for Public Affairs' events	2,368.13
6/22/2023	6/22/23 Water Policy Forum & Dinner - Accommodations for speaker Ed Ring	177.09
7/02/2023	07/02/23-08/01/23 Zoom Video Communications fee with audio licenses	174.93
7/03/2023	July 2023 Public Storage Unit for Public Affairs	485.00
7/07/2023	Canva annual subscription renewal	119.40
7/10/2023	Spanish translations for DMV video	7.78
7/12/2023	Ricky the Raindrop extra clothes	34.62
7/12/2023	Public Affairs team building lunch for new employee	131.75
7/13/2023	Frames for Public Affairs' awards	60.25
7/13/2023	PRSA annual membership renewal for S. Wilson	342.00
Total:		**3,900.95**
WEROC Card:		
6/30/2023	Amazon office supplies	146.53
6/30/2023	Lapel pins from All About Pins for WEROC Marketing	235.99
6/30/2023	Amazon office supplies	176.65
7/06/2023	Dell laptop for the Director of Emergency Management	2,136.92
7/14/2023	Canva Annual subscription renewal	119.99
Total:		**2,816.08**

Municipal Water District of Orange County
GM Approved Disbursement Report [1]
For the Month of August 2023

Name/ Date	Check/ EFT	Invoice	Description	Amount
Core Disbursements:				
AccuFund Inc				
8/31/2023	EFT	20231488	AccuFund Accounting Suite annual maintenance and license renewal	5,760.75
Total				**5,760.75**
CALPERS				
8/15/2023	142520	100000017250388	Fees for GASB-68 Reports & Schedules for June 30, 2023	700.00
Total				**700.00**
Spiral Holding LLC				
8/15/2023	142529	SC008706	Binding machine annual maintenance agreement renewal	902.00
Total				**902.00**
Total Core Disbursements				**7,362.75**
Choice Disbursements:				
Total Choice Disbursements				-
Other Funds Disbursements:				
Total Other Funds Disbursements				-
Total Disbursements				**7,362.75**

Harvey De La Torre, Interim General Manager

Hilary Chumpitazi, Treasurer

[1] For disbursements that did not make the cut-off of previous month's Disbursement Approval report. Disbursements are approved by GM for payment and need A & F Committee ratification.

Municipal Water District of Orange County
Consolidated Summary of Cash and Investment
July 31, 2023

Street Address:
18700 Ward Street
Fountain Valley, California 92708

Mailing Address:
P.O. Box 20895
Fountain Valley, CA 92728-0895

(714) 963-3058
Fax: (714) 964-9389
www.mwdoc.com

Megan Yoo Schneider, P.E.
President

Bob McVicker, P.E., D.WRE
Vice President

Randall Crane, Ph.D.
Director

Larry D. Dick
Director

Al Nederhood
Director

Karl W. Seckel, P.E.
Director

Jeffery M. Thomas
Director

Harvey De La Torre
Interim General Manager

MEMBER AGENCIES

City of Brea
City of Buena Park
East Orange County Water District
El Toro Water District
Emerald Bay Service District
City of Fountain Valley
City of Garden Grove
Golden State Water Co.
City of Huntington Beach
Irvine Ranch Water District
Laguna Beach County Water District
City of La Habra
City of La Palma
Mesa Water District
Moulton Niguel Water District
City of Newport Beach
City of Orange
Orange County Water District
City of San Clemente
Santa Margarita Water District
City of Seal Beach
Serrano Water District
South Coast Water District
Trabuco Canyon Water District
City of Tustin
City of Westminster
Yorba Linda Water District

District investments and cash balances are held in various funds designated for certain purposes as follows:

Fund	Book Value	% of Portfolio
Restricted Reserves		
WEROC Operating Fund	$574,447	3.12%
Designated Reserves		
Operating Reserves	$3,819,350	20.76%
Election Reserve	482,587	2.62%
OPEB Reserve	297,147	1.61%
Total Designated Reserves	$4,599,084	24.99%
General Operations Fund	$11,867,569	64.49%
Water Purchase Payments Fund	1,990,713	10.82%
Conservation Fund	(648,009)	(3.52%)
Trustee Activities - AMP	18,637	0.10%
Total Other Funds	$13,228,910	71.89%
Total	**$18,402,441**	**100.00%**

The funds are invested as follows:

Term of Investment	% of Portfolio	Book Value	Market Value
Cash	7.93%	$1,459,564	$1,459,564
Short-term investment			
• LAIF	52.79%	9,714,986	9,714,986
• OCIP	22.43%	4,127,954	4,127,954
Long-term investment			
• US Government Issues	1.36%	249,937	226,023
• Corporate Bond	6.52%	1,200,000	1,079,897
• Certificates of Deposit	8.97%	1,650,000	1,577,559
Total	**100.00%**	**$18,402,441**	**$18,185,983**

The average number of days to maturity/call as of July 31, 2023 equaled 114 and the average yield to maturity is 3.214%. During the month, the District's average daily balance was $18,145,690.43. Funds were invested in US Bank Checking Account, Negotiable Certificate of Deposits, Corporate Bonds, US Government Issues, Local Agency Investment Funds (LAIF) and Orange County Investment Pool (OCIP) during the month of July 2023.

The ($216,458) difference between the book value and the market value on July 31, 2023 represents the exchange difference if all investments had been liquidated on that date. Since it is the District's practice to "buy and hold" investments until maturity, the market values are a point of reference, not an indication of actual loss or gain. There are no current plans or cash flow requirements identified in the near future that would require the sale of these securities prior to maturity.

Harvey De La Torre
Interim General Manager

Hilary Chumpitazi
Treasurer

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

Portfolio Management - Portfolio Summary

July 31, 2023

7/31/2023	Par Value	Market Value	Book Value	% of Portfolio	Days to Mat/Call	YTM @ Cost
Negotiable Certificate Of Deposit	1,650,000.00	1,577,559.00	1,650,000.00	9.74	924	2.944
Corporate Bond	1,200,000.00	1,079,897.00	1,200,000.00	7.08	326	1.518
US Government Issues	250,000.00	226,022.50	249,937.03	1.48	26	0.860
Local Agency Investment Funds	9,714,985.81	9,714,985.81	9,714,985.81	57.34	1	3.299
Orange County Investment Pool	4,127,953.88	4,127,953.88	4,127,953.88	24.36	1	3.756
Total Investments	**16,942,939.69**	**16,726,418.19**	**16,942,876.72**	**100.00**	**114**	**3.214**
Cash						
Cash	1,459,564.69	1,459,564.69	1,459,564.69		1	0.00
Total Cash and Investments	**18,402,504.38**	**18,185,982.88**	**18,402,441.41**		**114**	**3.214**

Total Earnings	Month Ending July	Fiscal Year to Date
Current Year	**44,470.05**	**523,185.03**
Average Daily Balance	**18,145,690.43**	
Effective Rate of Return	**3.214%**	

We certify that this report reflects the cash and investments of the Municipal Water District of Orange County and is in conformity with the Government Code requirements and the District Investment Policy and Guidelines in effect at the time of investment. The Investment Program herein shown provides sufficient cash flow liquidity to meet the next six month's estimated expenditure. The source for the market values are from U.S. Bank. Per Resolution 2059 there are no compliance exceptions to report.

Harvey De La Torre, Interim General Manager — Date: 09/07/2023

Hilary Chumpitazi, Treasurer — Date: 09/07/2023

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
Portfolio Management
Long-Term Portfolio Details - Investments
July 31, 2023

Issuer	CUSIP/Ticker	Settlement Date	Par Value	Market Value	Book Value	Coupon Rate	YTM @ Cost	Days To Call/Maturity	Maturity Date
Negotiable Certificate Of Deposit									
American Express Bank	02589ADE9	7/20/2022	200,000.00	187,568.00	200,000.00	3.350	3.350	1,450	7/20/2027
Capital One Bank	14042TBQ9	8/7/2019	250,000.00	242,055.00	250,000.00	2.250	2.250	373	8/7/2024
Capital One NA	14042RMJ7	7/24/2019	250,000.00	242,157.50	250,000.00	2.200	2.200	359	7/24/2024
Discover Bank	2546736R2	7/26/2023	250,000.00	242,405.00	250,000.00	4.500	4.500	1,820	7/24/2028
Goldman Sachs Bank	38148PT98	8/8/2018	250,000.00	249,900.00	250,000.00	3.350	3.350	8	8/8/2023
Sallie Mae Bank	7954507A7	7/14/2021	200,000.00	176,936.00	200,000.00	1.000	1.000	1,079	7/14/2026
Toyota Financial SGS Bank	89235MPD7	9/27/2022	250,000.00	236,537.50	250,000.00	3.650	3.650	1,514	9/22/2027
Sub Total			**1,650,000.00**	**1,577,559.00**	**1,650,000.00**	**2.944**	**2.944**	**924**	
US Government Issues									
FHLB	3130ALGR9	3/1/2021	250,000.00	226,022.50	249,937.03	0.850	0.860	26	2/26/2026
Sub Total			**250,000.00**	**226,022.50**	**249,937.03**	**0.850**	**0.860**	**26**	
Corporate Bond									
Bank of America Corp	06048WK41	12/7/2020	250,000.00	223,960.00	250,000.00	0.850	0.800	848	11/25/2025
Citigroup Global Markets	17328WFZ6	9/16/2020	250,000.00	224,745.00	250,000.00	1.000	1.000	47	9/16/2025
JP Morgan Chase	48128GV56	8/18/2020	250,000.00	223,350.00	250,000.00	0.800	0.800	384	8/18/2025
Morgan Stanley Fin LLC	61766YKH3	6/29/2022	200,000.00	187,732.00	200,000.00	4.500	4.500	334	6/29/2027
Societe Generale	83369MD25	8/19/2020	250,000.00	220,110.00	250,000.00	1.000	1.088	19	8/19/2025
Sub Total			**1,200,000.00**	**1,079,897.00**	**1,200,000.00**	**1.510**	**1.518**	**326**	
Total Investments			**3,100,000.00**	**2,883,478.50**	**3,099,937.03**	**2.220**	**2.224**	**620**	

Total Earnings	Month Ending July	Fiscal Year To Date
Current Year	5,635.10	70,320.54

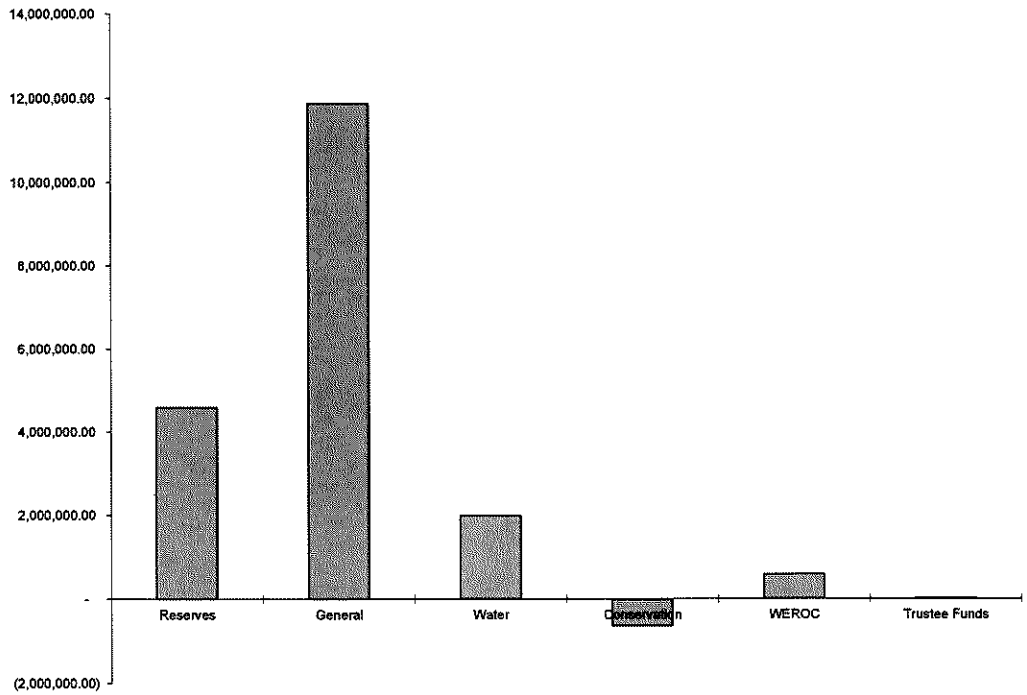
MUNICIPAL WATER DISTRICT OF ORANGE COUNTY
Portfolio Management
Short-Term Portfolio Details - Cash and Investments
July 31, 2023

Investments	CUSIP/Ticker	Settlement Date	Par Value	Market Value	Book Value	Coupon Rate	YTM @ Cost	Days To Call/Maturity	Maturity Date
Local Agency Investment Funds									
LAIF LGIP	LAIF	6/30/2010	9,714,985.81	9,714,985.81	9,714,985.81	3.299	3.299	1	N/A
Sub Total			**9,714,985.81**	**9,714,985.81**	**9,714,985.81**	**3.299**	**3.299**	**1**	
Orange County Investment Pool									
County of Orange LGIP	OCIP	6/29/2005	4,127,953.88	4,127,953.88	4,127,953.88	3.756	3.756	1	N/A
Sub Total			**4,127,953.88**	**4,127,953.88**	**4,127,953.88**	**3.756**	**3.756**	**1**	
Total Investments			**13,842,939.69**	**13,842,939.69**	**13,842,939.69**	**3.435**	**3.435**		
Cash									
Petty Cash Cash	CASH	7/1/2010	500.00	500.00	500.00	0.000	0.000	1	N/A
US Bank Cash	CASHUSBANK	7/25/2018	1,459,064.69	1,459,064.69	1,459,064.69	0.000	0.000	1	N/A
Total Cash			**1,459,564.69**	**1,459,564.69**	**1,459,564.69**	**0.000**	**0.000**	**1**	
Total Cash and Investments			**15,302,504.38**	**15,302,504.38**	**15,302,504.38**	**3.435**	**3.435**	**1**	

Total Earnings	Month Ending July	Fiscal Year To Date
Current Year	38,834.95	452,864.49

Municipal Water District of Orange County
Cash and Investments at July 31, 2023

ALLOCATION	AMOUNT	%
MWDOC		
Restricted Reserves		
WEROC Operating Fund	$ 574,447	3.12%
Designated Reserves		
Operating Reserve	3,819,350	20.76%
Election Reserve	482,587	2.62%
OPEB Reserve	297,147	1.61%
Total Designated Reserves	4,599,084	24.99%
General Operations Fund	11,867,569	64.49%
Water Purchase Payments Fund	1,990,713	10.82%
Conservation Fund	(648,009)	-3.52%
Total Other Funds	13,210,273	71.79%
TOTAL MWDOC	$ 18,383,804	99.90%
TRUSTEE ACTIVITIES		
AMP Sales Admin	$ 18,637	0.10%
TOTAL TRUSTEE ACTIVITIES	$ 18,637	0.10%
TOTAL CASH & INVESTMENTS	**$ 18,402,441**	**100.00%**



PUBLIC AGENCY RETIREMENT SERVICES | PARS

Item No. 3d

MUNICIPAL WATER DIST OF ORANGE COUNTY
PARS Post-Employment Benefits Trust

Account Report for the Period
7/1/2023 to 7/31/2023

Hilary Chumpitazi
Accounting Manager
Municipal Water Dist of Orange County
18700 Ward Street
Fountain Valley, CA 92708

Account Summary

Source	Balance as of 7/1/2023	Contributions	Earnings	Expenses	Distributions	Transfers	Balance as of 7/31/2023
OPEB	$2,574,617.90	$0.00	$53,566.81	$1,225.21	$0.00	$0.00	$2,626,959.50
PENSION	$1,120,664.29	$0.00	$23,316.24	$533.30	$0.00	$0.00	$1,143,447.23
Totals	**$3,695,282.19**	**$0.00**	**$76,883.05**	**$1,758.51**	**$0.00**	**$0.00**	**$3,770,406.73**

Investment Selection

Source	
OPEB	**Moderate HighMark PLUS**
PENSION	**Moderate HighMark PLUS**

Investment Objective

Source	
OPEB	The dual goals of the Moderate Strategy are growth of principal and income. It is expected that dividend and interest income will comprise a significant portion of total return, although growth through capital appreciation is equally important. The portfolio will be allocated between equity and fixed income investments.
PENSION	The dual goals of the Moderate Strategy are growth of principal and income. It is expected that dividend and interest income will comprise a significant portion of total return, although growth through capital appreciation is equally important. The portfolio will be allocated between equity and fixed income investments.

Investment Return

				Annualized Return			
Source	1-Month	3-Months	1-Year	3-Years	5-Years	10-Years	Plan's Inception Date
OPEB	2.08%	4.45%	4.81%	4.26%	5.05%	5.72%	10/26/2011
PENSION	2.08%	4.45%	4.85%	4.22%	5.04%	-	7/31/2018

Information as provided by US Bank, Trustee for PARS; Not FDIC Insured; No Bank Guarantee; May Lose Value

Past performance does not guarantee future results. Performance returns may not reflect the deduction of applicable fees, which could reduce returns. Information is deemed reliable but may be subject to change.
Investment Return: Annualized rate of return is the return on an investment over a period other than one year multiplied or divided to give a comparable one-year return.
Account balances are inclusive of Trust Administration, Trustee and Investment Management fees

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

COMBINED FINANCIAL STATEMENTS

AND

BUDGET COMPARATIVE

JULY 1, 2023 THRU JULY 31, 2023

Municipal Water District of Orange County
Combined Balance Sheet
As of July 31, 2023

	Amount
ASSETS	
Cash in Bank	1,459,564.69
Investments	16,942,876.72
Accounts Receivable	24,491,347.16
Accounts Receivable - Other	644,587.05
Accrued Interest Receivable	80,261.20
Prepaids/Deposits	427,240.74
Leasehold Improvements	7,011,190.45
Furniture, Fixtures & Equipment	939,470.68
Less: Accumulated Depreciation	(4,082,601.73)
TOTAL ASSETS	**47,913,936.96**
LIABILITIES AND FUND BALANCES	
LIABILITIES	
Accounts Payable	23,190,295.99
Accrued Salaries and Benefits Payable	603,950.53
Other Liabilities	1,019,027.88
Unearned Revenue	1,102,019.52
TOTAL LIABILITIES	**25,915,293.92**
FUND BALANCES	
Restricted Fund Balances	
WEROC Reserve	334,999.82
Total Restricted Fund Balances	334,999.82
Unrestricted Fund Balances	
Designated Reserves	
General Operations	3,819,350.00
Election Expense	482,587.00
OPEB	297,147.00
Total Designated Reserves	4,599,084.00
General Fund	7,948,699.52
General Fund Capital	86,023.20
Total Unrestricted Fund Balances	12,633,806.72
Excess Revenue over Expenditure	
Operating Fund	8,839,174.70
Other Funds	190,661.80
TOTAL FUND BALANCES	**21,998,643.04**
TOTAL LIABILITIES AND FUND BALANCES	**47,913,936.96**

Municipal Water District of Orange County
Combined Balance Sheet
As of July 31, 2023
Page Two

*Footnote

Unrestricted General Fund Balance includes the following:

Unaudited Net Investment Capital Assets	$3,901,146
Pension advanced payment	$1,000,000
Undesignated Fund for Projects/Programs	$1,000,000
Unaudited Carryover Liabilities	$1,493,182

Municipal Water District of Orange County
Revenues and Expenditures Budget Comparative Report
General Fund
July 1, 2023 thru July 31, 2023

	Month to Date	Year to Date	Annual Budget	% Used	Encumbrance	Budget Remaining
REVENUES						
Retail Connection Charge	9,206,255.25	9,206,255.25	9,206,255.25	100.00%	0.00	0.00
Ground Water Customer Charge	383,697.00	383,697.00	383,697.00	100.00%	0.00	0.00
Water Rate Revenues	**9,589,952.25**	**9,589,952.25**	**9,589,952.25**	**100.00%**	**0.00**	**0.00**
Interest Revenue	46,286.29	46,286.29	319,410.00	14.49%	0.00	273,123.71
Subtotal	**9,636,238.54**	**9,636,238.54**	**9,909,362.25**	**97.24%**	**0.00**	**273,123.71**
Choice Programs	0.00	0.00	2,026,982.00	0.00%	0.00	2,026,982.00
MWD Revenue - Shared Services	66,589.00	66,589.00	0.00	0.00%	0.00	(66,589.00)
Miscellaneous Income	0.00	0.00	3,000.00	0.00%	0.00	3,000.00
Transfer-In from Reserve	0.00	0.00	404,537.00	0.00%	0.00	404,537.00
Subtotal	**66,589.00**	**66,589.00**	**2,434,519.00**	**2.74%**	**0.00**	**2,367,930.00**
TOTAL REVENUES	**9,702,827.54**	**9,702,827.54**	**12,343,881.25**	**78.60%**	**0.00**	**2,641,053.71**

Municipal Water District of Orange County
Revenues and Expenditures Budget Comparative Report
General Fund
July 1, 2023 thru July 31, 2023

	Month to Date	Year to Date	Annual Budget	% Used	Encumbrance	Budget Remaining
EXPENSES						
Salaries & Wages	376,619.73	376,619.73	5,135,358.00	7.33%	0.00	4,758,738.27
Salaries & Wages - Grant Recovery	0.00	0.00	(30,000.00)	0.00%	0.00	(30,000.00)
Director's Compensation	21,610.38	21,610.38	275,041.00	7.86%	0.00	253,430.62
MWD Representation	11,460.05	11,460.05	117,875.00	9.72%	0.00	106,414.95
Employee Benefits	113,349.36	113,349.36	1,507,382.00	7.52%	0.00	1,394,032.64
CalPers Unfunded Liability Contribution	0.00	0.00	207,000.00	0.00%	0.00	207,000.00
Director's Benefits	8,683.04	8,683.04	104,447.00	8.31%	0.00	95,763.96
Health Insurance for Retirees	3,566.33	3,566.33	84,847.00	4.20%	0.00	81,280.67
Training Expense	0.00	0.00	36,000.00	0.00%	0.00	36,000.00
Tuition Reimbursement	0.00	0.00	5,000.00	0.00%	0.00	5,000.00
Temporary Help Expense	864.00	864.00	5,000.00	17.28%	0.00	4,136.00
Personnel Expenses	**536,152.89**	**536,152.89**	**7,447,950.00**	**7.20%**	**0.00**	**6,911,797.11**
Engineering Expense	8,605.25	8,605.25	307,000.00	2.80%	82,434.25	215,960.50
Legal Expense	19,042.42	19,042.42	241,000.00	7.90%	221,957.58	0.00
Audit Expense	0.00	0.00	36,500.00	0.00%	31,500.00	5,000.00
Professional Services	99,466.75	99,466.75	1,798,425.00	5.53%	1,383,687.11	315,271.14
Professional Fees	**127,114.42**	**127,114.42**	**2,382,925.00**	**5.33%**	**1,719,578.94**	**536,231.64**
Conference - Staff	2,075.00	2,075.00	49,832.00	4.16%	0.00	47,757.00
Conference - Directors	0.00	0.00	23,065.00	0.00%	0.00	23,065.00
Travel & Accom. - Staff	2,017.32	2,017.32	102,200.00	1.97%	0.00	100,182.68
Travel & Accom. - Directors	1,871.73	1,871.73	42,400.00	4.41%	0.00	40,528.27
Travel & Conference	**5,964.05**	**5,964.05**	**217,497.00**	**2.74%**	**0.00**	**211,532.95**
Membership/Sponsorship	92,571.58	92,571.58	167,366.00	55.31%	0.00	74,794.42
CDR Support	0.00	0.00	62,433.00	0.00%	0.00	62,433.00
Dues & Memberships	**92,571.58**	**92,571.58**	**229,799.00**	**40.28%**	**0.00**	**137,227.42**
Business Expense	267.34	267.34	2,000.00	13.37%	0.00	1,732.66
Office Maintenance	6,803.45	6,803.45	175,860.00	3.87%	151,656.55	17,400.00
Building Repair & Maintenance	458.17	458.17	25,200.00	1.82%	11,305.83	13,436.00
Storage Rental & Equipment Lease	65.14	65.14	1,800.00	3.62%	734.86	1,000.00
Office Supplies	1,105.29	1,105.29	27,000.00	4.09%	2,801.11	23,093.60
Supplies - Water Loss Control	390.67	390.67	4,000.00	9.77%	0.00	3,609.33
Postage/Mail Delivery	538.77	538.77	11,675.00	4.61%	1,765.39	9,370.84
Subscriptions & Books	159.99	159.99	1,000.00	16.00%	0.00	840.01
Reproduction Expense	1,688.88	1,688.88	93,000.00	1.82%	4,311.12	87,000.00
Maintenance - Computers	697.00	697.00	5,000.00	13.94%	0.00	4,303.00
Software Purchase	6,205.79	6,205.79	106,498.00	5.83%	1,924.23	98,367.98
Software Support	5,478.13	5,478.13	50,185.00	10.92%	0.00	44,706.87
Computers and Equipment	0.00	0.00	43,000.00	0.00%	0.00	43,000.00
Maintenance Expense	0.00	0.00	6,000.00	0.00%	0.00	6,000.00
Automotive Expense	743.15	743.15	9,400.00	7.91%	0.00	8,656.85
Vehicle Expense	3,431.16	3,431.16	12,000.00	28.59%	0.00	8,568.84
Toll Road Charges	0.00	0.00	975.00	0.00%	0.00	975.00
Insurance Expense	15,196.29	15,196.29	182,976.00	8.31%	0.00	167,779.71
Utilities - Telephone	3,200.28	3,200.28	46,063.00	6.95%	1,254.33	41,608.39
Bank Fees	0.00	0.00	2,600.00	0.00%	0.00	2,600.00
Miscellaneous Expense	21,700.04	21,700.04	154,200.00	14.07%	5,335.00	127,164.96
MWDOC's Contrb. to WEROC	24,442.25	24,442.25	293,307.00	8.33%	0.00	268,864.75
Depreciation Expense	9,278.11	9,278.11	0.00	0.00%	0.00	(9,278.11)
Other Expenses	**101,849.90**	**101,849.90**	**1,253,739.00**	**8.12%**	**181,088.42**	**970,800.68**
Capital Aquisition	0.00	0.00	25,892.00	0.00%	1,510.56	24,381.44
Building Expense	0.00	0.00	222,686.00	0.00%	31,679.49	191,006.51
TOTAL EXPENSES	**863,652.84**	**863,652.84**	**11,780,488.00**	**7.33%**	**1,933,857.41**	**8,982,977.75**
NET INCOME (LOSS)	**8,839,174.70**	**8,839,174.70**	**563,393.25**	**1,568.92%**	**(1,933,857.41)**	**(6,341,924.04)**

Municipal Water District of Orange County
Revenues and Expenditures Budget Comparative Report
Water Fund
July 1, 2023 thru July 31, 2023

	Month to Date	Year to Date	Annual Budget	% Used	Budget Remaining
WATER REVENUES					
Water Sales	12,237,701.10	12,237,701.10	181,024,108.00	6.76%	168,786,406.90
Readiness to Serve Charge	1,143,236.41	1,143,236.41	13,768,707.00	8.30%	12,625,470.59
Capacity Charge CCF	293,620.00	293,620.00	4,816,710.00	6.10%	4,523,090.00
SCP/SAC Pipeline Surcharge	33,837.48	33,837.48	358,000.00	9.45%	324,162.52
TOTAL WATER REVENUES	**13,708,394.99**	**13,708,394.99**	**199,967,525.00**	**6.86%**	**186,259,130.01**
WATER PURCHASES					
Water Sales	12,237,701.10	12,237,701.10	181,024,108.00	6.76%	168,786,406.90
Readiness to Serve Charge	1,143,236.41	1,143,236.41	13,768,707.00	8.30%	12,625,470.59
Capacity Charge CCF	293,620.00	293,620.00	4,816,710.00	6.10%	4,523,090.00
SCP/SAC Pipeline Surcharge	33,837.48	33,837.48	358,000.00	9.45%	324,162.52
TOTAL WATER PURCHASES	**13,708,394.99**	**13,708,394.99**	**199,967,525.00**	**6.86%**	**186,259,130.01**
EXCESS OF REVENUE OVER EXPENDITURE	**0.00**	**0.00**	**0.00**	**0.00%**	**0.00**

Municipal Water District of Orange County
Revenues and Expenditures Budget Comparative Report
Water Use Efficiency
July 1, 2023 thru July 31, 2023

	Year to Date Actual	Annual Budget	% Used
Spray To Drip Conversion(3423)			
Revenues	43,874.49	613,600.00	7.15%
Expenses	69,725.45	613,600.00	11.36%
Excess of Revenues over Expenditures	(25,850.96)	0.00	
Member Agency Administered Pass-Thru(3425)			
Revenues	0.00	338,000.00	0.00%
Expenses	0.00	338,000.00	0.00%
Excess of Revenues over Expenditures	0.00	0.00	
ULFT Rebate Program(3410)			
Revenues	120.00	1,000.00	12.00%
Expenses	120.00	1,000.00	12.00%
Excess of Revenues over Expenditures	0.00	0.00	
HECW Rebate Program(3411)			
Revenues	6,640.35	40,000.00	16.60%
Expenses	5,715.00	40,000.00	14.29%
Excess of Revenues over Expenditures	925.35	0.00	
CII Rebate Program(3416)			
Revenues	0.00	1,000.00	0.00%
Expenses	0.00	1,000.00	0.00%
Excess of Revenues over Expenditures	0.00	0.00	
Turf Removal Program(3418)			
Revenues	424,909.37	11,298,000.00	3.76%
Expenses	455,069.28	11,298,000.00	4.03%
Excess of Revenues over Expenditures	(30,159.91)	0.00	
Comprehensive Landscape (CLWUE)(3427)			
Revenues	22,063.15	152,400.00	14.48%
Expenses	30,816.41	152,400.00	20.22%
Excess of Revenues over Expenditures	(8,753.26)	0.00	
Recycled Water Program(3433)			
Revenues	0.00	50,000.00	0.00%
Expenses	0.00	50,000.00	0.00%
Excess of Revenues over Expenditures	0.00	0.00	
WSIP - Industrial Program(3432)			
Revenues	0.00	53,720.00	0.00%
Expenses	0.00	53,720.00	0.00%
Excess of Revenues over Expenditures	0.00	0.00	
Land Design Program(3431)			
Revenues	0.00	300,000.00	0.00%
Expenses	17,445.00	300,000.00	5.82%
Excess of Revenues over Expenditures	(17,445.00)	0.00	
Pressure Regulation Program(3435)			
Revenues	0.00	15,000.00	0.00%
Expenses	1,275.96	15,000.00	8.51%
Excess of Revenues over Expenditures	(1,275.96)	0.00	
Dedicated Irrigation Meters Measurement Project (DIMM)(3439)			
Revenues	0.00	743,000.00	0.00%
Expenses	0.00	743,000.00	0.00%
Excess of Revenues over Expenditures	0.00	0.00	

Municipal Water District of Orange County
Revenues and Expenditures Budget Comparative Report
Water Use Efficiency
July 1, 2023 thru July 31, 2023

	Year to Date Actual	Annual Budget	% Used
Total WUE Projects			
Revenues	497,607.36	13,605,720.00	3.66%
Expenses	580,167.10	13,605,720.00	4.26%
Excess of Revenues over Expenditures	(82,559.74)	0.00	
WEROC			
Revenues	314,242.25	586,614.00	53.57%
Expenses	42,622.12	586,614.00	7.27%
Excess of Revenues over Expenditures	271,620.13	0.00	

Item No. 5

CONSENT CALENDAR ITEM
September 20, 2023

TO: Board of Directors

FROM: **Planning & Operations Committee**
(Directors McVicker, Nederhood and Seckel)

Harvey De La Torre, Interim General Manager

Staff Contact: Vicki Osborn, Director of Emergency Management

SUBJECT: AUTHORIZE WEROC MOBILE EOC

STAFF RECOMMENDATION

Staff recommends the Board of Directors approve use of MWDOC reserve funding not to exceed $400,000 to purchase a mobile EOC/Command Vehicle (Option 1).

COMMITTEE RECOMMENDATION

Committee concurred with staff recommendation.

SUMMARY

Since 2020, WEROC has tried to obtain funding for a new, permanent Emergency Operations Center (EOC) to replacing the aging and failing facility located in Mission Viejo.

At the March 2023 P&O Committee meeting, the Director of Emergency Management requested action by the Board for use of funding up to $500,000 from the available reserve funding to purchase a mobile EOC/Command Vehicle; and not move forward with the construction of the WEROC EOC project at the ETWD site. At the June 15, 2022, the funding the board approved was from the MWDOC reserves funds for user for the federal 25% local match if appropriations was granted at the federal level. The Board concurred with the termination of the South EOC permanent project with El Toro Water District and requested WEROC to come back with more specific numbers about the purchase of a mobile vehicle, and continue to pursue potential appropriations funding from the federal

Budgeted (Y/N): N	Budgeted amount:	Core __	Choice __
Action item amount:	Line item:		
Fiscal Impact (explain if unbudgeted): reserve funding not to exceed $400,000 for this project.			

level, and continue to seek a location to serve as a location point for the South EOC as an alternative measure.

In July, WEROC learned that the appropriation request was not granted at the federal level.

At the July 20th MWDOC Managers Meeting and the July 27th MET Managers Meeting, the Director of Emergency Management recapped the historical of the project and presented an overview of costs along with highlighting how the Mobile EOC would become a regional asset and use of singular incident to a complex event requiring a physical deployment of the vehicle. Both groups supported the project and outcomes. At the August A&F meeting WEROC brought a discussion to the committee to report on the information requests from the July meting and the results from the MWDOC Manager's and MET Manager's meetings. WEROC appreciates the feedback, thoughtful questions and discussion thus far from stakeholders and board members in regards to this project.

The board requested this item be brought back as an action item, options are presented below.

Attachments

A – MEOC Benefits
B – Estimate Quote
C – All in One Spreadsheet

BOARD OPTIONS

Option #1: Approve use of MWDOC reserve funding not to exceed $400,000 to purchase a mobile EOC/Command Vehicle.
Fiscal Impact: Approved funding from reserves will be allocated to support this project.
Business Analysis:. This option is significantly lower in costs than the construction cost estimates of $4 million for the WEROC EOC. Additionally, this option will provide the basic standard capabilities WEROC required during an emergency while maintains the readiness of WEROC along with providing a regional asset that can be used by all agencies.

Option #2: Do not approve funding from reserves for the WEROC Mobile EOC Project
Fiscal Impact: Reserves remain intact and are not used.
Business Analysis:. WEROC continues to operate with limited response capabilities and a long-term solution for the loss of the Primary WEROC EOC continues to be sought after,

MOBILE COMMAND POST/ EMERGENCY OPERATIONS CENTER (MEOC)

A mobile Command Post/Emergency Operations Center (MEOC) provides interoperable emergency communications and incident management resources anywhere required. When a multi-jurisdictional incident occurs, being able to communicate to and from all responding entities and manage the overall incident are key concerns.

Key Benefits

- Interconnected voice radio systems covering multiple bands
- Full featured phone system with voicemail
- ICS Role-based computers with office applications installed
- Broadband Internet access
- Customized radio console solution
- Self-contained, redundant power-generation capability
- Voice and video distribution for situational awareness

Capabilities

A MEOC contains numerous radio and IT systems on-board that provide interoperable communications and incident management functionality to a multi-jurisdictional response environment. Once on-scene MEOC personnel will assist in determining needs, creating a communications plan, and deploy and operate equipment necessary to meet the planning objectives.

Interoperable Communications

At the heart of the MEOC communications system is the WEROC 800Mhz system which provides interoperable communications capabilities for all WEROC agencies to be able to talk with each other in addition to other disciples such as law, fire and public works. The on-board phone system is also connected to the system enabling the MEOC to establish links between dissimilar radio system users, and can further permit them access to the public switched telephone network.

Voice and Data - Including Internet

The MEOC is to be equipped with a satellite Internet auto-acquisition system that can provide Internet access to the incident site within 7 minutes in virtually any environment along with full Wi-Fi systems (802.11a/b/g) on-board providing network connectivity to unwired computing platforms. Further, the MEOC can provide telephone network access via satellite, cellular and hard-wired circuits.

Mobile Emergency Operations Center Equipment

The MEOC brings the necessary essentials to assist a jurisdiction to establish an Emergency Operations Center (EOC) in a field environment. If a structure is available within 1000 feet of the vehicle location - MEOC personnel can extend cabling to that structure enabling the setup of tables, chairs, laptop computers, and phones, and backup generator power to any location.

Disaster Recovery Plan (MWDOC)

MEOC will contain server and a back-up system in the event the MWDOC location is not habitable in Fountain Valley, this vehicle will be able to support the critical business functions MWDOC requires to maintain operations (example Financial).

This Quote is valid through 12/23

480 Bessemer Road
Mt Pleasant, PA 15666
724-542-7640
724-542-7648 FAX
POC: Melissa Marks, Melissa@MobileConcepts.com

www.MobileConcepts.com

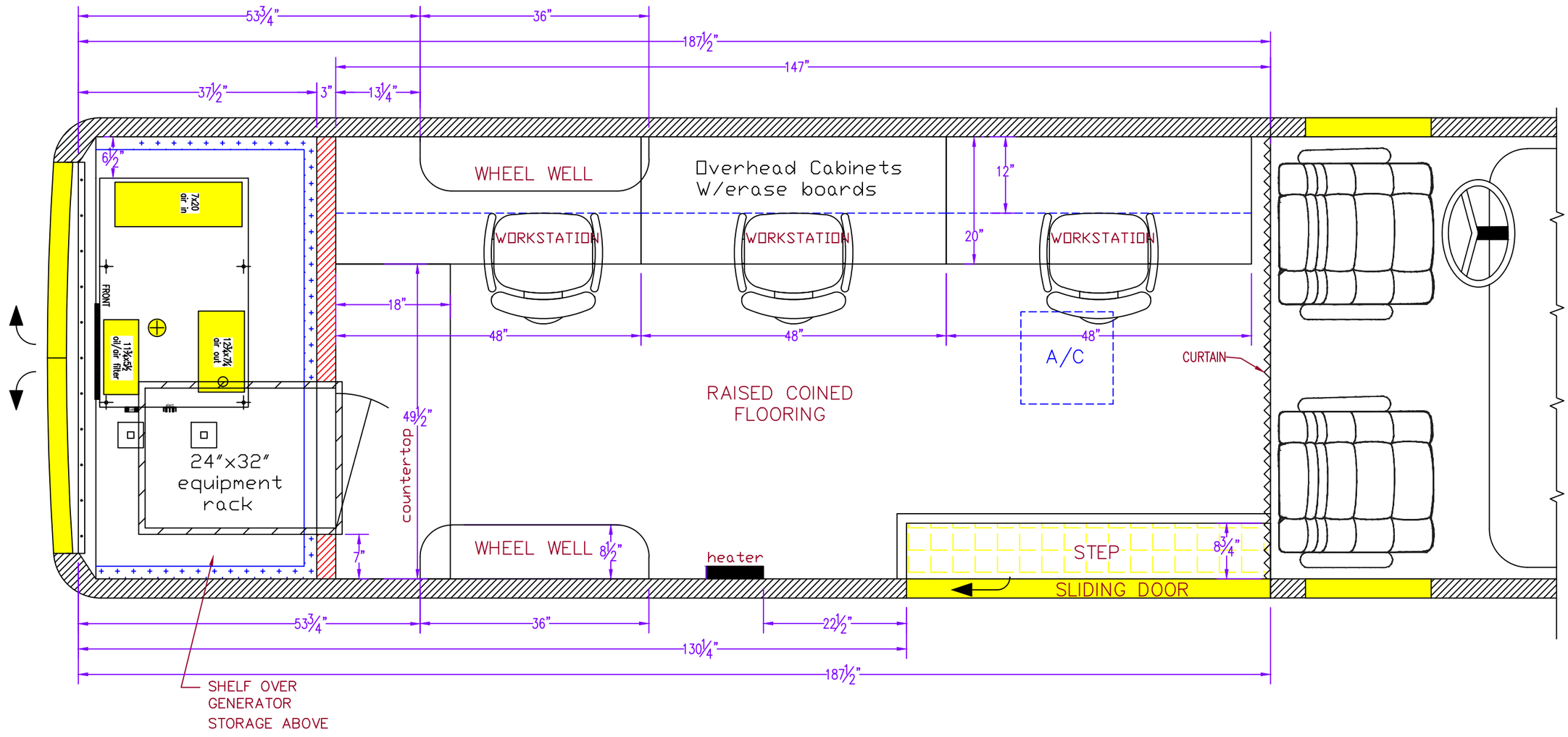
Date: 7/17/2023

PREPARED FOR:
Vicki Osborn
Municipal Water District of Orange County
18701 Ward Ave
Fountain Valley, CA 92708

ITEM	UNIT PRICE	QUANTITY	TOTAL PRICE
2024 Sprinter Mobile Command Center Dimensions: 290L x 80W (in.) • Mercedes • Pre-wire radio • Custom overhead cabinetry w/whiteboard inserts • Duplex wall outlets • Onan 8kw diesel powered generator installed in rear soundproof box • Turbocharged 4 cylinder diesel • 5 speed automatic transmission • 4-wheel hydraulic disc brakes with ABS • 25 gallon tank • Cruise control • A/c • Am/fm/cd stereo • 2 solid swing out doors on rear • Roof access ladder • Electric awning/activation switch • Wire chase with removable cover • Custom overhead cabinets • One (1) 19” wide equipment rack • Three (3) workstations, each with two (2) 110v, one (1) CAT6 • Three (3) task chairs • Raised coin flooring • Smooth fiberglass walls • Led ceiling lights	243,347.00	1	243,347.00

• Curtain to separate the cockpit and office area • 50 amp shoreline • Automatic transfer switch • One (1) 13,500BTU roof mounted a/c • One (1) 750w wall heater • Four (4) perimeter lights • One (1) exterior 110v outlet Customer requested add ons: • Solar panel to charge unit batteries • Cradle point wifi • 1.2M AVL satellite dish •Three (3) LCS/LED Video Displays at each work station •Exterior outlet under awning for customer to hook up laptop for outdoor workspace			
Total Commercial Price			243,347.00
Delivery			**13,497.00**
Total Price FOB			**$256,844.00**

THIS DRAWING, DESIGN AND INFORMATION CONTAINED THEREIN IS THE PROPRIETARY WORK PRODUCT OF MOBILE CONCEPTS BY SCOTTY AND SHALL NOT BE USED BY ANY PERSON WITHOUT ITS PRIOR WRITTEN CONSENT



3WS Command

drafter: JOE MORGAN
filename: FLOORPLAN -1
Version: Autocad 2020
scale: 3/8" = 1'-0"

Date: 3-1-2022
Revised:
Size: B size
approved by:

Freightliner/ Mercedes
Extended Sprinter
FLOORPLAN-1

Model:

480 Bessemer Rd.
Mt. Pleasant, PA 15666
phone (724) 542-7640
fax (724) 542-7648

Mobile Concepts
Speciality Vehicles
Since 1956

WEROC Mobile EOC Data Equipment

Equipment Rack		**Equipment Cost**	**Reoccuring Cost**	
	Electronics equipment rack; vented; fan	1,050		
Voice/Data				
	Multi-provider Gateway/Router	775	$125	Monthly Fee
	Starlink Satellite	3,200	$2,400	Annual Fee Minutes
	(11) handsets	2,475	$300	Monthly Fee
	Speaker/Conference Microphone	300		
	Conferece Poly System	700		
Network/Connectivity				
	(2) 24 port switch w/POE	900		
	(2) Wifi access points (inside and outside	600		
Screen Share				
	Hardware to share laptop screen to rem	500		
Uninterrupted Power (UPS)				
	Rack mounted/1500VA for approximate	400		
Storage				
	Storage area network	500		
Radios				
	(2) Motorola Dual Band 8000 APX Handhelc	20,000	$4,500	Reoccuring County Cost for being on County System
	(4) Motorola UHF HT750 Handheld Radios (	6,000		
Printing				
	Copier/Scanner	700		
	Mobile Plotter	1,000		
	LabelTac Pro X Mobile Printer	2,100		
	Sub	41,200		
			7325	
Baseline Cost Quoted		256,845		
Not included technology		41,200		
	Sub	298,045		
Taxes		26,079		
VLF (Registration)		1,600		This cost will change annually with depriation
Insurance		3,700		
15% Contingency Funding		48,679		
	Grand Total	378,103		

Item No. 6

CONSENT CALENDAR ITEM
September 20, 2023

TO: Board of Directors

FROM: **Administration & Finance Committee**
(Directors Dick, Thomas, Crane)

Harvey De La Torre, Interim General Manager

Staff Contact: Maribeth Goldsby, District Secretary

SUBJECT: **ASSOCIATION OF CALIFORNIA WATER AGENCIES (ACWA) COMMITTEE CONSIDERATION FOR 2024-25**

STAFF RECOMMENDATION

Staff recommends the Board of Directors: Determine which directors and staff would like to serve on Association of California Water Agencies (ACWA) committees for 2024-25, and direct staff to submit completed Committee Consideration Forms by the September 30 deadline.

COMMITTEE RECOMMENDATION

Committee reviewed this item and recommended the Board authorize the requests to serve on various ACWA Committees for the 2024/25 term.

SUMMARY

The Association of California Water Agencies (ACWA) is seeking members to participate on its various committees for the 2024/25 term. There are 13 committees for which members (directors and staff) may serve. All consideration forms require the signature of ether the member agency general manager or board president before they are submitted to ACWA. The incoming ACWA Region Chairs and Vice Chairs will review the consideration forms and send recommendations to the new ACWA President and Vice President by November 29th. ACWA will then send official appointment letters to new committee members by December 31st.

The following individuals currently serve on ACWA Committees:

Budgeted (Y/N): N/A	Budgeted amount:	Core __	Choice __
Action item amount:	Line item:		
Fiscal Impact (explain if unbudgeted): Not applicable			

Energy	Megan Yoo Schneider
Groundwater:	Bob McVicker
Water Quality *	Bob McVicker Megan Yoo Schneider *Robert Hunter was appointed

The following is a list of the Committees available for consideration:

- Agriculture
- Business Development
- Communications
- Energy
- Federal Affairs
- Finance
- Groundwater
- Legal Affairs
- Local Government
- Membership
- State Legislative
- Water Management
- Water Quality

Staff is seeking input from the Board on which Board members would like to submit their name for ACWA committee consideration; Interim General Manager De La Torre will recommend to the Board which staff members will be seeking appointment to ACWA Committees.

Attached is a copy of the information received from ACWA, along with the Committee Consideration forms (indicating interested Directors to date).

ACWA
Association of California Water Agencies

Bringing Water Together





JOIN A COMMITTEE AND GET INVOLVED

ACWA has 13 standing committees that members can join and get involved. This is a great way for members to engage in state and local issues and influence policy and legislation. Committees are structured to include representation from all 10 ACWA Regions, bringing together diverse voices on technical and policy matters. **Take action, join a committee!**

COMMITTEE APPOINTMENT PROCESS TIMELINE

2024 – 2025 TERM

JUNE 28 — Committee consideration forms emailed to member agency general managers and board presidents.

SEPT 30 — All completed consideration forms due.
Any consideration submitted after deadline will be put on a waiting list.

NOV 9 — Region Chair and Vice Chair recommendation deadline.

NOV 29 — Region recommendations given to incoming ACWA President.

DEC 13 — Incoming ACWA President appoints members of committees.

DEC 31 — ACWA notifies committee members of appointments and rosters posted on acwa.com.

COMMITTEE COMPOSITION

Committee members are appointed for two-year terms that begin on Jan. 1 of even-numbered years. You can learn more about ACWA's 13 standing committees below. For more information and bylaws, visit **www.acwa.com**. If you have any questions, please contact Region and Member Engagement Specialist Ana Javaid at **anaj@acwa.com**.

Committee	Description	Composition	Meetings Per Year	Liaison
Agriculture	• Makes recommendations to the Board of Directors, State Legislative Committee, Federal Affairs Committee or other committees, as appropriate, regarding agricultural issues affecting the interests of ACWA and its members.	Unlimited	4	**Stephen Pang** State Relations Advocate stephenp@acwa.com
Business Development	• Develops and recommends to the Board of Directors programs and activities to be provided or administered by the association that generate non-dues revenue and provide a service or benefit to association members.	Unlimited	2	**Joseph Ramos** Business Development Representative josephr@acwa.com
Communications	• Develops and recommends to the Board of Directors and ACWA staff regarding communications and public affairs programs. • Promotes sound public information and education programs and practices among member agencies. • Prepares and distributes materials for use by member agencies in their local outreach efforts. • Provides input and guidance to ACWA's Communications Department.	Limited to 40	4	**Heather Engel** Director of Communications heathere@acwa.com
Energy	• Recommends policies and programs to the Board of Directors, the State Legislative Committee and the Federal Affairs Committee as appropriate.	Unlimited	4	**Nick Blair** State Relations Advocate nickb@acwa.com
Federal Affairs	• Coordinates with other ACWA committees regarding input on federal issues before both Congress and the federal administrative branches.	Limited to 5 per Region	4	**David Reynolds** Director of Federal Relations davidr@acwa.com
Finance	• Makes recommendations to the Board of Directors regarding annual budgets, investment strategies, annual audits and auditor selection, dues formula and schedule, and other financial matters.	Limited to 2 per Region *(1 Region Chair/ Vice Chair and 1 with financial experience)*	4 – 5	**Dan Gumpert** Controller dang@acwa.com
Groundwater	• Makes recommendations to the Board of Directors on groundwater policy issues. • Monitors state and federal regulations and legislation affecting the quality and management of groundwater. • Conducts studies and gathers data on groundwater issues. • Develops policies regarding groundwater management. • Coordinates with other committees on groundwater issues.	Unlimited	4	**Soren Nelson** State Relations Advocate sorenn@acwa.com

Committee	Description	Composition	Meetings Per Year	Liaison
Legal Affairs	• Acts on requests for assistance on legal matters of significance to ACWA member agencies. • Reviews proposed ACWA bylaw revisions and works with staff to produce publications to assist member agencies in complying with state and federal laws. • Files amicus curiae filing on important cases, comments on proposed regulations and guidelines of state agencies such as the Fair Political Practices Commission and monitors and engages in water rights matters of interest to member agencies.	Limited to 45	2 – 3	**Kris Anderson** State Relations Advocate krisa@acwa.com
Local Government	• Makes recommendations to the Board of Directors and the State Legislative Committee on local government matters affecting water agencies, including planning issues, local government organization, and finance. • Gathers and disseminates information on the value of special districts, and shares information promoting excellence in local government service delivery.	Limited to 3 per Region	2	**Julia Hall** Legislative Relations Manager juliah@acwa.com
Membership	• Makes recommendations to the Board of Directors regarding membership policies, eligibility and applications for membership. • Assists staff in developing membership recruitment and retention programs and reviews and makes recommendations to the Finance Committee regarding an equitable dues structure.	Unlimited	2	**Katie Dahl** Member Services Manager katied@acwa.com
State Legislative	• Reviews relevant introduced and amended legislation, and develops positions and provides recommendations to the Board of Directors on ballot measures and other major statewide policy issues. • Works with staff amendments to bills and provides direction for staff on legislative matters.	Limited to 4 per Region	10 – 12	**Adam Quiñonez** Director of State Relations adamq@acwa.com
Water Management	• Makes recommendations to the Board of Directors on policy and programs related to water management. • Reviews and recommends positions on legislation and regulations as requested by other committees. • Assists in gathering and disseminating information regarding agricultural and urban water management, water conservation and water use efficiency, development and use of water resources, wastewater treatment and water recycling and reuse.	Limited to 4 per Region	4	**Chelsea Haines** Regulatory Relations Manager chelseah@acwa.com
Water Quality	• Makes recommendations to the Board of Directors, the State Legislative Committee and the Federal Affairs Committee on policy and programs regarding water quality issues. • Promotes cost-effective state and federal water quality regulations and provides a forum for members to work together to develop and present unified comments on water quality regulations. • Develops and recommends positions and testimony on water quality regulatory issues.	Unlimited	4	**Nick Blair** State Relations Advocate nickb@acwa.com

TO GET INVOLVED, SUBMIT YOUR CONSIDERATION FORM NOW!

COMMITTEE CONSIDERATION FORM

PLEASE PRINT LEGIBLY

Agency Name (DO NOT use acronyms or abbreviations)		ACWA Region #
Municipal Water District of Orange County		10
Agency Address	City, State & Zip	Phone
P.O. Box 20895	Fountain Valley CA 92728	714/593-5006

BELOW PLEASE LIST ALL THOSE INTERESTED IN BEING ON ACWA COMMITTEES FOR YOUR AGENCY. FOR ADDITIONAL RECOMMENDATIONS PLEASE FILL OUT ANOTHER FORM.

**If an individual is not an agency employee or director, please indicate company affiliation.*

Name	Title/Company*	Email Address
Megan Yoo Schneider	President	mschneider@mwdoc.com
Committee 1st Choice	Committee 2nd Choice	Committee 3rd Choice
Water Quality	Energy	
Name	Title/Company*	Email Address
Robert "Bob" McVicker	Vice President	bmcvicker@mwdoc.com
Committee 1st Choice	Committee 2nd Choice	Committee 3rd Choice
Water Management	Groundwater	
Name	Title/Company*	Email Address
Jeffery Thomas	Director	jmthomas@mwdoc.com
Committee 1st Choice	Committee 2nd Choice	Committee 3rd Choice
Finance		
Name	Title/Company*	Email Address
Committee 1st Choice	Committee 2nd Choice	Committee 3rd Choice
Name	Title/Company*	Email Address
Committee 1st Choice	Committee 2nd Choice	Committee 3rd Choice
Name	Title/Company*	Email Address
Committee 1st Choice	Committee 2nd Choice	Committee 3rd Choice

	President	9/20/23
Signature *(Agency/District General Manager or Board President signature required)*	Title	Date

Committee member contact information will be shared on the committee roster and is to be used for committee business only.

QUESTIONS?
Contact **acwacommittees@acwa.com**
or **(916) 441-4545**

980 9th Street, Suite 1000
Sacramento, CA 95814
www.acwa.com

Item No. 7

CONSENT CALENDAR ITEM
September 20, 2023

TO: Board of Directors

FROM: **Administration & Finance Committee**
(Directors Dick, Thomas, Crane)

Harvey De La Torre, Interim General Manager

Staff Contact: Charles Busslinger

SUBJECT: **Professional Services Contract Award for Lead and Copper Rule Revisions Service Line Inventory Choice Program**

STAFF RECOMMENDATION

Staff recommends the Board of Directors authorize the Interim General Manager to enter into a professional services agreement with Hazen and Sawyer (Hazen) to assist in the development of participating agencies' Lead and Copper Rule Revisions (LCRR) Service Line Inventories.

Depending on the number of Orange County agencies that elect to participate, the final contract amount will include all of the participating agencies' costs. This would include any contingency items that the participating agencies request and/or that the consultant deem are needed to meet the requirements of the LCRR regulations. These contingency items can range from additional assistance in the collection, review, and analysis of record documents to the consultant providing field personnel to conduct field investigations.

To date, MWDOC has received commitment from 13 agencies to participate in the Choice Program (pending their governing body's approval) with 2 additional agencies still under consideration. Attachment A includes the list of agencies who have indicated participation in this joint effort with MWDOC. If all 15 agencies participate, the total contract, with estimated contingency items, can range from $2,094,000 to $2,948,000.

COMMITTEE RECOMMENDATION

Committee concurred with staff recommendation.

Budgeted (Y/N): N/A	Budgeted amount: N/A	Core _	Choice X
Action item amount:			
Fiscal Impact (explain if unbudgeted): The total contract amount can range from $2,094,000 to $2,948,000. Consultant costs will be paid for by Orange County agencies choosing to participate in this program			

SUMMARY

The US Environmental Protection Agency (USEPA) published the Lead and Copper Rule Revisions (LCRR) Final Rule on January 15, 2021, with an effective date of December 17, 2021. Included in the LCRR are requirements for all water systems to complete a Service Line Inventory (SLI) regardless of ownership of the service line (i.e., including private property); and if service lines are found to contain or possibly contain lead, to also submit a Service Line Replacement Plan along with the SLI to the State by October 16, 2024. Multiple Member Agencies indicated a desire for MWDOC to offer a Choice Shared Services Program for SLI development.

MWDOC issued a Request For Proposals to consulting firms with expertise in the development of LCRR SLI for a number of Orange County water agencies under three (3) overall LCRR compliance components:

- *Desktop Analysis* that includes data gathering, building an initial service line inventory, as well as developing and applying alternative material verification methods which must be pre-approved by the primacy agency (for California it is the Division of Drinking Water).
- *Field Investigation* to visually verify the service line material.
- *Ongoing Monitoring* including school/childcare sampling (currently a responsibility of schools/ child day care centers) and other sampling based on a tiered structure. Ongoing monitoring is not intended to be part of this Choice Program as these are on-going multi-year requirements that are beyond the scope of MWDOC's intended program. Agencies wishing to contract for these services are offered the opportunity to do so under separate consulting agreements directly with the consultant.

DETAILED REPORT

In March 2023 multiple member agencies requested MWDOC's assistance with completing their USEPA Lead and Copper Rule Revisions (LCRR) regulations Service Line Inventory (SLI). At the May 1, 2023, P&O Committee meeting, staff presented background information on a potential Choice Program and received input from the Board to continue. Agencies indicated a desire for MWDOC to put together a Choice Shared Services Program for SLI development similar to America's Water Infrastructure Act (AWIA), Water Loss Control Program, and Urban Water Management Plans (UWMP).

The USEPA published the LCRR Final Rule on January 15, 2021, with an effective date of December 17, 2021. Included in the LCRR are requirements for all water systems to complete a SLI regardless of ownership of the service line (i.e., including private property); and if service lines are found to contain or possibly contain lead, to also submit a Service Line Replacement Plan along with the SLI to the State (which has been delegated primary enforcement authority from the USEPA – known as Primacy) by October 16, 2024. The primacy agency for California is the State Water Resources Control Board Division of Drinking Water (DDW).

The Water Industry Guidance for Completing Inventory Requirements of the Federal Lead and Copper Rule Revisions (March 2023) indicates that "*The difficulty of completing inventorying requirements in California will be to prove the absence of lead service lines. Given this dynamic, it is important for California water systems to be able to utilize appropriate survey and statistical methodologies to complete an inventory of their unique service area*."

The scope of work involved in developing a SLI to comply with the LCRR requirements is complex. It is a multi-step process that involves:

1) Desktop analysis to determine service line materials using historical records (e.g., construction and plumbing codes, customer-side construction permits, distribution system records), and building an initial service line inventory.
2) Development and application of alternative material verification methods (e.g., statistical analysis and predictive modeling) to reduce or narrow down large numbers of service lines whose material status is unknown into a manageable size for field verification. Alternative verification methods require DDW pre-approval prior to application.
3) Field inspection to visually verify service line materials. Field inspection involves a - three-point verification at the meter box (agency-side and customer-side service line) and at the riser immediately before the connection enters the building.

In addition to a complex scope of work, the associated level of effort can be costly depending on factors such as system size, availability of historical data, data format (paper vs digital) and other characteristics unique to the water system. Guidance from industry experts to help Orange County water agencies navigate compliance options is key to achieving compliance within the fast-approaching regulatory deadlines. The success of this project hinges upon the technical assistance of subject matter experts who are well-versed in the LCRR requirements, are experienced in guiding water systems to achieve LCRR compliance and understand Orange County water systems' needs and characteristics. With this understanding, MWDOC sought the assistance of qualified consultants through a competitive process.

By providing these services under the Choice Program and hiring technical experts to perform the work, MWDOC creates significant value for agencies from increased efficiency in cost and time to complete the project, streamlined project administration, and greater coordination among MWDOC and participating agencies that will lead to greater knowledge sharing and better understanding of a complex compliance requirement. Qualified consultant(s) will provide technical expertise that MWDOC and individual agencies otherwise do not have. The solicitation process began with the preparation of a Request for Proposals (RFP) by MWDOC and volunteers from interested agencies. The draft RFP was sent out for review on June 11, 2023 to those agencies who attended the initial meeting. The final RFP was released on June 19, 2023 via advertisement on MWDOC's website and sent directly to seven firms known to have good LCRR qualifications. Five proposals were received. A Selection Committee was formed of volunteers from interested agencies to evaluate the proposals based on the criteria in the RFP.

The Selection Committee independently reviewed and scored the five proposals. The proposals were objectively evaluated based on the following criteria:

- Understanding of the scope of work;
- Technical approach to achieving LCRR compliance;
- Project Management approach and project schedule to successfully complete the project on time for multiple agencies concurrently;
- Firm qualifications and experience, especially specific experience and capability of the designated project manager and key staff;
- Ability to provide all 12 categories of service.

All firms presented extensive LCRR experience on the East Coast and Mid-West. Three firms have LCRR experience in California, however, only one firm has received DDW approval for alternative verification methods at the time of proposal submission. There were large variations in the cost estimates for some of the categories of service, most notably for customer communications and fieldwork-related tasks. MWDOC asked firms to provide further clarifications on proposed costs, minimum compliance approach, and other firm-specific approach questions.

The Selection Committee evaluated and scored the main proposals and responses to clarifications by firm as summarized below:

Firm	Average Score
120Water	**46.3**
Arcadis	**75.0**
B&V	**68.3**
CDM Smith	**67.5**
Hazen	**87.8**

Overall, the consensus was that Hazen presented the most qualified proposal and team with the following qualities:

- Most knowledgeable on compliance options & pathways for California water systems
- Best understanding of Orange County water agencies specifics
- Best overall experience in California with LCRR compliance work for systems such as Los Angeles Department of Water and Power and Sweetwater Authority
- DDW approval of alternative verification methods received
- Most experienced project manager, technical lead, and other key staff with in-depth local knowledge
- Most cost efficient across all 12 categories of service to be offered under the Choice Program.

Categories of Services

The Choice Program intends to offer technical consulting services that align with the compliance components under 12 standalone categories of service i.e., tasks. These tasks

are designed to assist agencies achieve full compliance with the LCRR SLI (ongoing monitoring requirements are not covered but agencies may procure as a separate agreement directly with the consultant). Because each agency's situation is unique, the Choice Program is set up as a menu of services for agencies to have the option to select as many or as few services they desire to have performed by the consultant. The exception is Task 1 Project Administration and Progress Reporting, which includes the costs for administration, meetings, etc., where all participating agencies must opt in.

- Task 1 – Project Administration and Progress Report
- Task 2 – Assistance with Data Gathering, Records and Historical Code Review
- Task 3 – Develop Lead Service Line Inventory Database and Initial Inventory
- Task 4 – Develop Approach for alternative Material Verification Methods
- Task 5 – Apply DDW Approved Alternative Verification Methods
- Task 6 – Assistance with Data Analysis
- Task 7 – Customer Communications
- Task 8 – Develop and Implement Private Property Owner Self-Verifications
- Task 9 – Develop Lead Service Line Replacement Plan
- Task 10 – Manage Field Inspection/Test Pitting/Meter Inspections
- Task 11 – Field Inspection Personnel to Assist with Physical Visual Verifications
- Task 12 – Populate DDW Inventory Template & Service Line Inventory Submission

<u>Not Intended to be Part of Choice Program</u>

Ongoing Monitoring

- Task A: School/Childcare Sample Site Selection and SOP
- Task B: Compliance Sample Site Selection and SOP

Additional Services

- Task C: Integrate Lead Service Line Inventory into Asset Management System

Cost of Services

To date, MWDOC has received commitment from 13 agencies to participate in the Choice Program (pending their governing body's approval) with 2 additional agencies still under consideration. Assuming participation from 15 agencies, the cost of services is an estimated $2,948,000 without volume discounts. Volume discounts will be applied to tasks that are selected by 10 or more agencies ranging from 20 to 50 percent per task. The estimated cost is $2,094,000 for 15 agencies with volume discounts assuming all anticipated tasks are selected by 10 or more agencies, representing a 29 percent overall discount. The expected costs for individual agencies range from $43,500 to $296,800 based on their anticipated task selections and situation.

BOARD OPTIONS

Option #1

Staff recommends the Board of Directors authorize the Interim General Manager to enter into a professional services contract with Hazen to provide technical consulting services for

the upcoming Lead and Copper Rule Revisions (LCRR) Service Line Inventories Project, at a cost not to exceed of $2,948,000.

Fiscal Impact: None. Direct costs will be paid for by Participating Agencies.

Business Analysis: By providing these services under the Choice Program and hiring experts to perform the work, MWDOC creates significant value to Participating Agencies from economy of scale, increased efficiency in cost and time to complete the project, streamlined project administration, and greater coordination among MWDOC and Participating Agencies leading to greater knowledge sharing and better understanding of a complex compliance requirement. The consultant provides technical expertise that MWDOC and individual agencies otherwise do not have.

Option #2

- Do Not authorize the Interim General Manager to enter into a professional services agreement with Hazen to provide technical consulting services for the upcoming LCRR Service Line Inventories Project.

Fiscal Impact: None.

Business Analysis: Not recommended as many Orange County water agencies will be left to individually solicit consultant assistance for this complex project themselves or left to navigate this complex regulatory requirement by themselves and risk non-compliance. This option removes economy of scale benefits, eliminates coordination and knowledge sharing among Orange County water agencies, and limits access to qualified experts to provide technical assistance to achieving regulatory compliance.

STAFF RECOMMENDATION

Option #1

Attachments:

A – List of Participating Agencies
B – Hazen Proposal with Labor Rate Schedule
C – MWDOC Standard Agreement For Consultant Services - Redlined
D – Participating Agencies Agreement For Sharing Consultant Costs

Attachment A

List of Participating Agencies

MWDOC Choice Shared Services Program for Lead and Copper Rule Revision Service Line Inventory Development

	Agency
1	Anaheim, City
2	El Toro Water District
3	Fountain Valley, City
4	Fullerton, City
5	Garden Grove, City
6	La Habra, City
7	La Palma, City
8	Orange, City
9	San Clemente, City
10	Seal Beach, City
11	South Coast Water District
12	Westminster, City
13	Yorba Linda Water District



Proposal for

Assistance with Completion and Submission of Lead and Copper Rule Revisions Service Line Inventories for a Number of Orange County Agencies

RFP ENG. 2023-01 | July 26, 2023

Hazen

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Hazen

July 26, 2023

Charles Busslinger, P.E.
Director of Engineering, District Engineer
Municipal Water District of Orange County
18700 Ward Street
Fountain Valley, CA 92708
cbusslinger@mwdoc.com

RE: Response to RFP for Professional Services for Assistance with Completion and Submission of Lead and Copper Rule Revisions Service Line Inventories for a Number of Orange County Agencies (RFP Eng. 2023-01)

Dear Mr. Busslinger and Members of the Selection Committee:

Hazen and Sawyer (Hazen) is pleased to submit this proposal in response to the above-referenced Request for Proposals (RFP). We understand the Municipal Water District of Orange County (MWDOC) and several Orange County (OC) Water Agencies are evaluating the advantages that a joint effort can afford each Water Agency in achieving compliance with the Lead and Copper Rule Revisions (LCRR). Building upon Hazen's diverse experience in providing LCRR compliance support for utilities nationwide, our response to the RFP was developed with a focus on delivering high-quality professional services that support a joint effort and provide the most cost-effective and time-efficient project execution. We also understand the level of technical assistance required for each Water Agency is likely to vary and will be agreed upon prior to commencement of the scope of work.

Our thorough review of the RFP and initial assessment of lead likelihood in Water Agencies' service areas (Section 2) guided the development of our Project Work Plan and informed the selection of an exceptional team of LCRR experts to assist Water Agencies at various levels. Hazen is committed to assisting MWDOC and partnering OC Water Agencies be successful in the implementation of their LCRR programs and be compliant with US EPA and Division of Drinking Water (DDW) regulatory requirements.

Selecting Hazen to assist MWDOC and partnering Water Agencies offers several benefits:



Nationally Recognized Experts in LCRR Assistance and Corrosion Control. Our proposed LCRR Program Manager, **Nicole Blute, PhD, PE,** is an expert in corrosion control and has most recently been the PM for LADWP's LCRR efforts. Hazen's Technical Advisor **Becki Rosenfeldt, PE,** is a nationally recognized expert in LCRR compliance programs and a trusted advisor to more than 40 municipalities and regulatory agencies. Nicole and Becki have been working with the California State Water Resources Control Board's DDW leadership to share strategies from other states and propose alternative verification methods. Hazen offers a deep bench of national LCRR leaders who have been at the forefront of LCRR compliance programs for large water utilities across the United States, including **Cayla Cook, PE,** and **Roger Arnold, PE,** who will provide additional experiences for compliance.

Our team's experience in developing and delivering LCRR compliance programs since before the LCRR's promulgation has allowed us to optimize our tools, processes, and methods so we can deliver projects to our clients in a highly efficient and functional way.

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Simplified Functionality for Today with Growth Capacity for Tomorrow. Given the need to keep the Service Line Inventory (SLI) updated well into the future, Hazen has developed a series of modules that can be added to the basic framework for seamless, integrated management overtime. This method allows for a phased approach to meet the financial, technical, and resource needs of the agencies we support. Moreover, the inventory's added geoprocessing functionality provides auto updating to allow the utilities to continue to efficiently conduct annual inventory updates if lead status is unknown, galvanized requiring replacement (GRR), or Lead Service Lines (LSLs) remain following the October 16, 2024, submission deadline.

Familiar, Non-Proprietary Tools. While Hazen is on the cutting edge of technological advances concerning LCRR compliance, our approach relies upon off-the-shelf, non-proprietary software to the extent possible. This approach maximizes the usability and adaptability of the tools we develop for our clients and ensures minimal start-up time and cost as well as training time for OC Water Agency staff.

Using standard tools within ESRI ArcGIS, we have developed a non-proprietary model used to classify the lead, non-lead, GRR, and unknown status of service lines with a high degree of accuracy.

Effective Project Management for Simultaneous Agency LCRR Compliance. Hazen has developed effective strategies for programs similar to the proposed MWDOC and OC Water Agencies partnership, in which multiple agencies' LCRR actions are conducted simultaneously for efficiencies. Our team is implementing more than 200 LCRR Compliance Programs for small systems in New Hampshire, and all of the small systems serving less than 10,000 customers for utilities in Arizona. Both of these projects are being implemented under a single management entity to achieve LCRR compliance in the most efficient manner. The Hazen team brings to MWDOC strategies found to be effective for this framework, such as pooling adjacent small systems to provide a larger number of samples that supports a more rigorous statistical analysis (and results in an overall fewer number of field verification sites required for individual agencies).

We confirm our ability, considering current and planned workload, to complete the SLI for each participating Water Agency on time for the following milestones:

- Notice to Proceed on October 30, 2023, and
- SLI completion and submission to the State (DDW) and/or before October 1, 2024.

We also confirm our willingness to accept the terms and conditions of the provided Professional Service Agreement (Proposal – Appendix C) with the proposed modifications (subject to negotiation with MWDOC, provided as Appendix B to this proposal), and personal or organizational conflicts of interest prohibited by law do not exist.

We trust that our proposal meets with your approval. If you have any questions or require additional information, please contact me directly at (714) 814-4909 or Nicole Blute at (310) 266-6212. We look forward to working with you on this important project.

Very truly yours,

Cindy Miller, PE
Program Director

Nicole Blute, PhD, PE
Program Manager

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Section 1

Project Team

Section No. 1

Project Team

Hazen's team brings to MWDOC and partnering OC Water Agencies the expertise and demonstrable experience working on similar projects whereby multiple water agencies join efforts, benefiting from the cost and time savings this presents, whilst still addressing the unique needs of each agency.

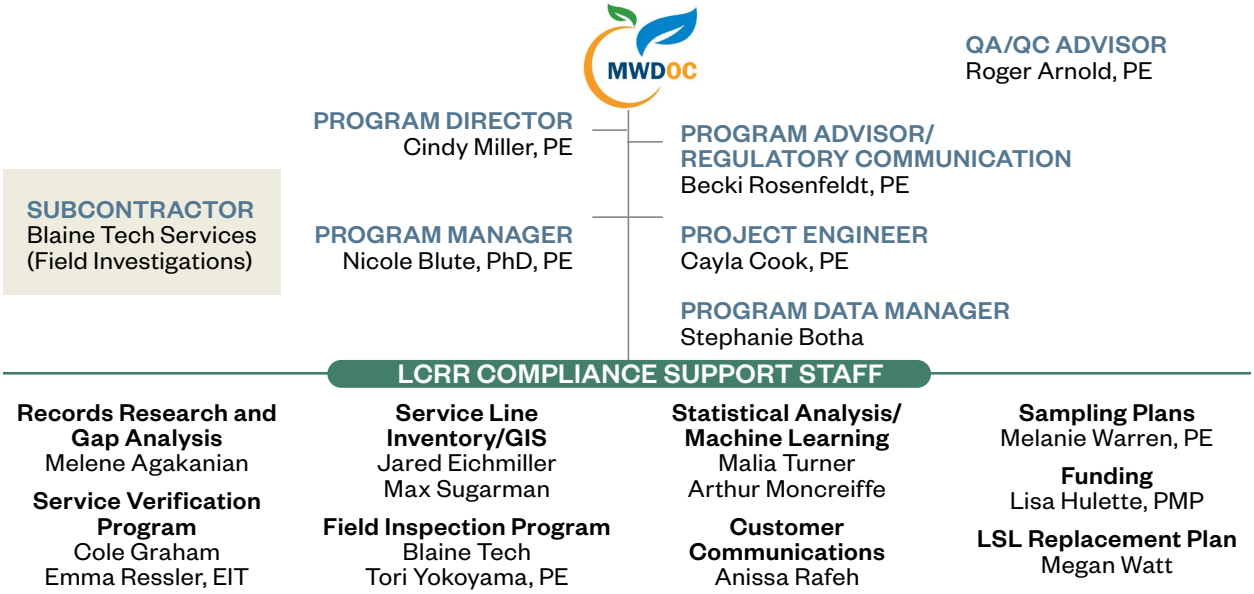
In this section, Hazen presents our exceptional team of highly skilled LCRR experts, respected for their technical knowledge in the field. Key team members, such as Becki Rosenfeldt, PE, have experience working on more than 35 LCRR projects, and most recently a project in New Hampshire, with a very similar scope and partnering strategy. She also provides LCRR guidance to regulatory agencies, including DDW. Similarly, Cayla Cook, PE, Hazen's selected project engineer for the proposed project, has been instrumental in the success of more than a dozen LCRR projects that included LSLI development for water systems in California and Arizona. Our proposed Project Manager (PM), Dr. Nicole Blute, PE, is a very experienced and hands-on PM, most recently leading LADWP's LCRR compliance project. She also has over 20 years' lead and copper rule and corrosion control experience. They are backed by a deep bench of LCRR experts who have worked side-by-side on more than 50 LCRR-related projects and programs throughout the US, including California.

A short biography for each key project member is provided below, and tailored resumes presenting relevant experience for the proposed project, for all selected project team members, are provided in Appendix A.

Members of the proposed Hazen team were selected by matching their skills and experience to the requirements of the RFP to provide efficient, cost-effective solutions to assist MWDOC and partnering OC Water Agencies in the successful submission of their respective LSLIs in the DDW Inventory Template by the October 2024 deadline.

Subconsultants

Joining the Hazen team will be Blaine Tech Services, an environmental field services contractor who will perform the field inspections to supplement agency staff in investigations of service line materials. Blaine Tech has been in operation since 1985 and has qualified personnel and equipment for conducting and/or supporting field-related services



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Key Team Members

Our team of experienced local professionals and national experts will require minimal oversight from MWDOC and partnering OC Water Agency staff unless desired. Our proven record of delivering LCRR projects in California and around the country will give you confidence in a smooth and successful project delivery.



CINDY MILLER, PE — PROGRAM DIRECTOR

Cindy is an accomplished program director, manager, and technical lead on a wide range of water projects. Cindy's broad project experience has exposed her to all phases of project planning, design, program management, and implementation of programs. This unique and diverse experience enhances her ability to work effectively with project teams, utility managers and staff, and the public. Cindy has worked for MWDOC and many of the partnering OC Water Agencies over the course of her more than 30-year career.

BENEFIT: Cindy will ensure MWDOC and the partnering OC Water Agencies' satisfaction with the Hazen team.



NICOLE BLUTE, PHD, PE — PROGRAM MANAGER

Nicole serves as Hazen's Director of Drinking Water Process Technologies and has extensive LCRR and corrosion control experience working with utilities throughout the Western United States. She has over 25 years of experience with distribution system water quality. She specializes in drinking water quality and system planning for water agencies and leads complex programs involving multiple agencies, facilities, and stakeholdders Nicole is experienced in working closely with DDW to propose and interpret regulatory direction.

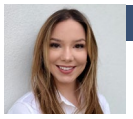
BENEFIT: Nicole will draw upon her experience as a highly effective program manager and her knowledge of the LCRR requirements to deliver the program to MWDOC on schedule and budget.



BECKI ROSENFELDT, PE — PROGRAM ADVISOR/REGULATORY COMMS.

Becki has extensive experience guiding many of Hazen's clients to LCRR compliance. She serves as a Program Manager, QA/QC advisor, and various technical expert roles for the development of LSLIs including the development of alternative material verification methods such as statistical interpolation and machine learning models. Her nationally recognized expertise includes providing guidance to regulatory agencies, including DDW. Nationwide, Becki is assisting utilities with developing comprehensive LCRR compliance programs including service line inventories, replacement and sampling plans, and customer communication.

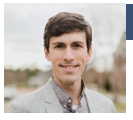
BENEFIT: Beki will leverage her experience delivering over 35 previous LCRR projects to serve as the program advisor for MWDOC.



CAYLA COOK, PE — PROJECT ENGINEER

Cayla has served as the Project Engineer, Task Manager, and Assistant Project Manager on several key LCRR efforts including LSLIs within California and Arizona, lending to a robust background and knowledge of the unique challenges utilities face associated with the LCRR. She has successfully completed multiple similar efforts and is ready to hit the ground running.

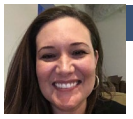
BENEFIT: Cayla will provide assistance in leading the team on the technical aspects of the LCRR and organizing simultaneous completion of LCRR compliance for multiple agencies.



ROGER ARNOLD, PE — QA/QC ADVISOR

Roger serves as a nationally recognized corrosion control expert who has helped utilities across the country optimize corrosion control and LCRR compliance. He provides technical oversight for LCRR projects nationwide and is perfectly situated to serve as the QA/QC Advisor for the project. His technical experience has focused on applying field testing, scale analysis, and pipe loop testing to solve corrosion control challenges.

BENEFIT: Roger's experience in overseeing several LCRR project nationwide will ensure the scope of work will be executed efficiently and of exceptional quality.



STEPHANIE BOTHA — PROGRAM DATA MANAGER

Stephanie brings to MWDOC and partnering OC Water Agencies extensive experience in data management and visualization techniques. She has worked with LADWP over the past 7 years to develop, implement and manage databases - supporting department decision-making and DDW permitting & compliance. Stephanie will lead the GIS and database teams.

BENEFIT: Stephanie expertise will ensure LSLI databases of utmost use to the Member Agencies and visualization of data provides clear understanding and communication.

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Maintaining Continuity and Availability of Key Staff

As Project Manager, Nicole Blute will implement Hazen standard procedures for developing, forecasting, and managing the staffing plan for this project. The importance of staff availability and continuity on the Project is well understood. Key procedural elements are as follows:



At project inception, Nicole will develop a project work plan that includes the selected project staff and their forecasted workload for the duration of the engagement.



Weekly internal workload meetings to communicate short-term project delivery activities and staffing needs.



All Hazen project managers update long-term staffing plans on a monthly basis to review workload and availability.



Should staffing issues arise, Nicole will work with Cindy Miller (Program Director) to develop solutions to meet project expectations.

We have already created a draft work plan for this project to assist in estimating the availability and commitment of our team members to provide continuity and efficiencies.

Specific Team Experience Relevant to LCRR Projects

	Percentage Time Each Member Will Contribute to the Project	Record and Code Review	SLI Database	Alternative Material Verification Methods	DDW Applications	Data Analysis	Customer Communications	Self-Verifications	LSL Replacement Plan	Manage Field Testing	Funding
Nicole Blute	15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Becki Rosenfeldt	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cayla Cook	20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Roger Arnold	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stephanie Botha	15		✓		✓	✓				✓	
Melene Agakanian	10	✓				✓				✓	
Cole Graham	10	✓	✓	✓		✓	✓	✓		✓	
Emma Ressler	10	✓	✓	✓		✓	✓	✓		✓	
Jared Eichmiller	20		✓	✓		✓			✓		
Max Sugarman	20		✓			✓					
Tori Yokoyama	15	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Malia Turner	10		✓	✓		✓					
Arthur Montcrieffe	15	✓	✓	✓		✓			✓		
Anissa Rafeh	10						✓				
Megan Watt	25	✓	✓	✓	✓	✓	✓		✓		✓
Melanie Warren	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Lisa Hulette	10				✓						✓

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Section 2

Project Understanding and Work Plan

Section No. 2

Project Understanding and Work Plan

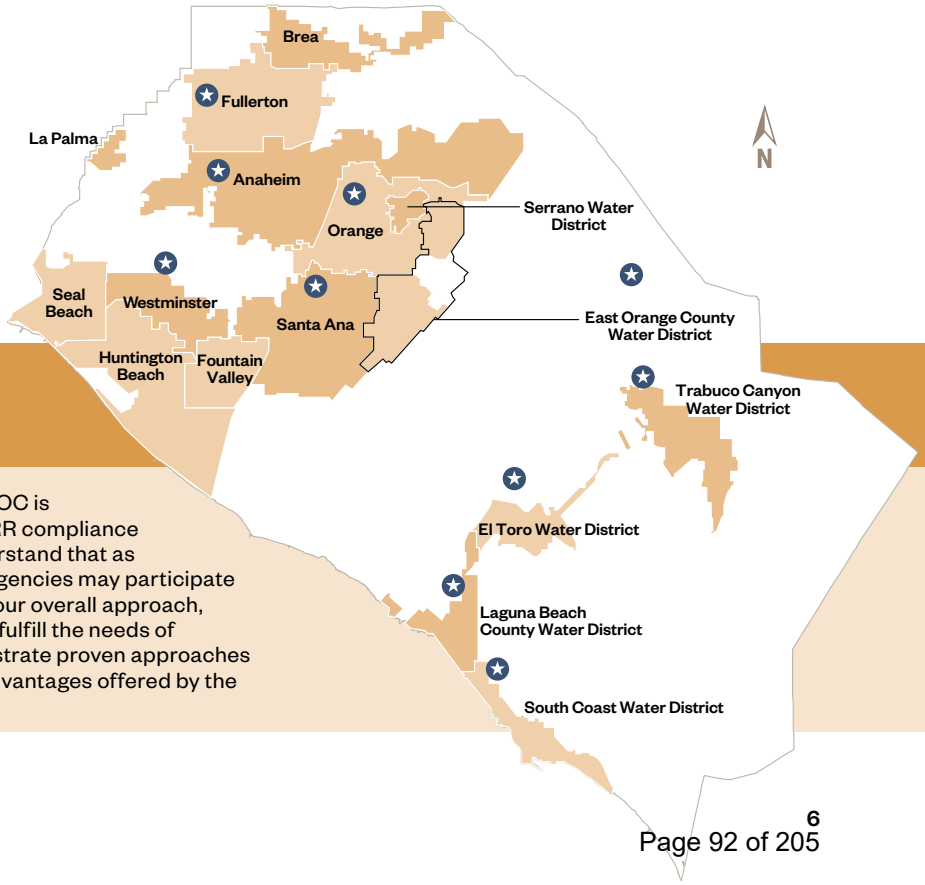
Our approach was developed with a focus on delivering superior professional services that support a collaborative effort between MWDOC and partnering OC Water Agencies. By leveraging the economies of scale for this joint effort, our work plan provides a cost-effective and time-efficient project execution.

Project Understanding

Hazen understands the objective of this joint effort between MWDOC and participating Water Agencies is an efficient completion and submission of US EPA Lead and Copper Rule Revisions (LCRR) Service Line Inventories (SLIs) to DDW by the October 2024 deadline. The work plan assumes between 8 and 15 agencies will participate and offers options for providing various levels of assistance in the completion of remaining compliance deliverables. In developing our approach, we considered three levels of assistance per the requirements of the RFP, i.e., Low Level of Effort (LLOE), Medium Level of Effort (MLOE), and High Level of Effort (HLOE), for the menu of services presented in Appendix A of the RFP. We understand that this approach allows individual agencies to choose the tasks and a level of support they require, but still benefit from the proposed joint effort. We also understand that the number of service connections per agency varies greatly, from 1,204 connections in East Orange County Water District's service area, to 64,166 for the City of Anaheim, hence our approach is scalable to address such variation.

Hazen has already begun the process of evaluating MWDOC Water Agencies' water distribution systems as presented in the next pages. We will collaborate closely with MWDOC and Water Agency staff, and our local partner, Blaine Tech Services, to accelerate our understanding of location specific details to maintain the project schedule.

Members of the Hazen team have experience with Water Agencies



Potential Partnering OC Water Agencies

In a joint effort to save cost and time, MWDOC is administering the approach to achieve LCRR compliance by the October 16, 2024 deadline. We understand that as few as eight and as many as 15 OC Water Agencies may participate in the project. In this proposal, we provide our overall approach, and when applicable, describe how we can fulfill the needs of individual Water Agencies. We also demonstrate proven approaches to accomplish compliance goals and the advantages offered by the Hazen team.

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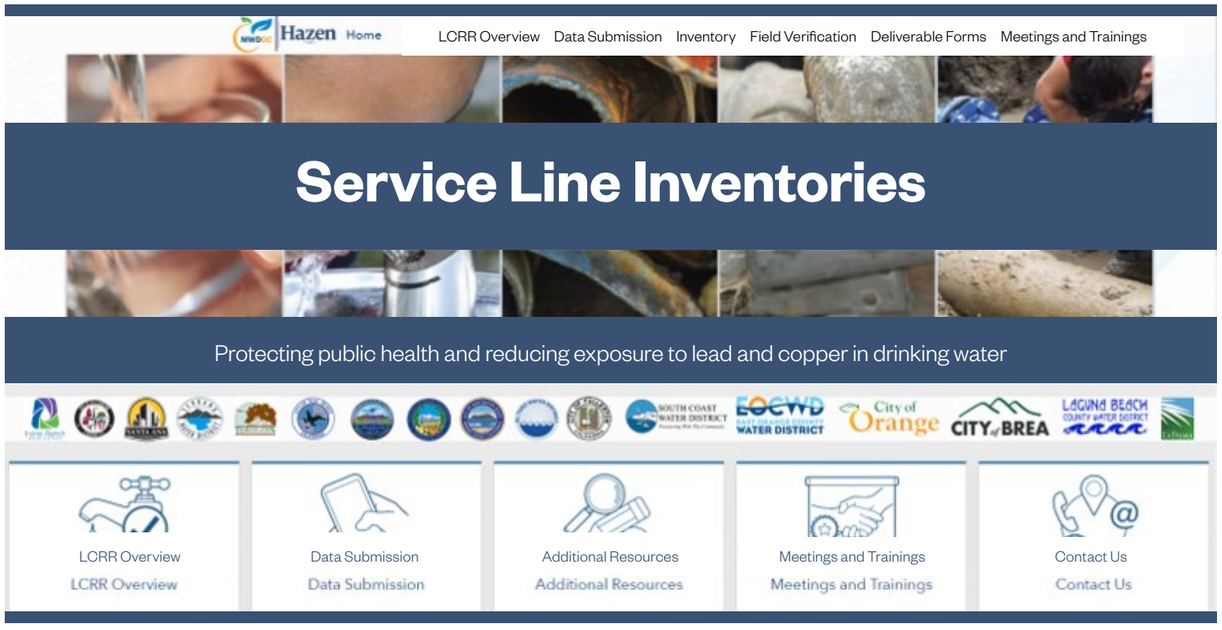
Overview of Hazen's Proposed Management Approach

Our overall approach to assist MWDOC and partnering OC Water Agencies to comply with LCRR requirements pivots on a proven collective strategy. Centralized project tools will be utilized to streamline tasks and reduce unnecessary duplication of efforts, thereby saving time and cost.

Proposed centralized tools included in Hazen's approach consist of the development of an OC LCRR Water Agency Partnership Website and Service Line Inventory Hub.

OC LCRR Water Agency Partnership Website:

The partnership website will provide a centralized location of resource material including training documents and videos. The website is also a location for the participating agencies to upload data, access their inventory, and track development of compliance deliverables.



NEW HAMPSHIRE DEPARTMENT OF Environmental Services

Hazen has had great success and client(s) satisfaction utilizing centralized tools where projects include a number of water agencies teaming to achieve LCRR compliance. For example: Hazen is implementing LCRR Compliance Programs for more than 200 small and medium systems in New Hampshire under a single management entity (i.e., New Hampshire Department of Environmental Services).

OC LCRR Service Line Inventory Hub:

- Creation of a central database or Hub will function as a single source of truth to simplify data management, streamline inventory reporting, and provide an integrated tool to manage the SLI across multiple water systems. For security reasons, each Water Agency will be provided with a different view of the inventory filtered to their system, creating individual access points for each of the partnering Water Agencies.

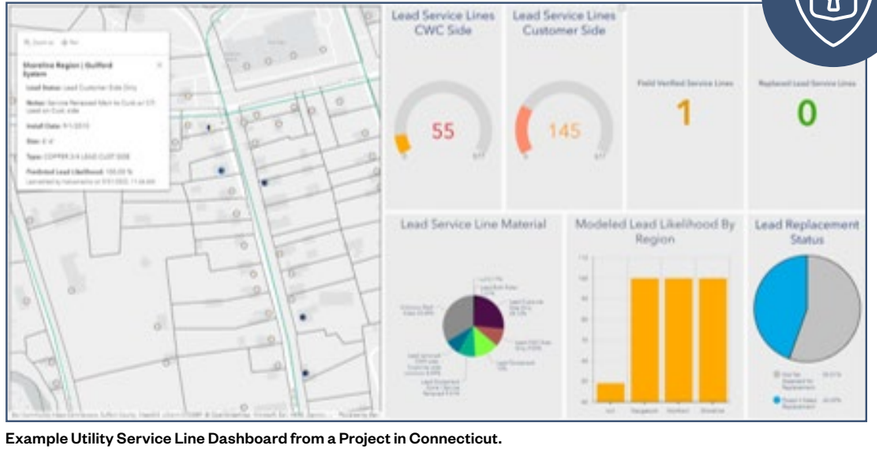


Utility Partnership Access to Customized LCRR Training Materials:



Team Member Roger Arnold leading a training on sequential sampling to support LCRR compliance programs.

Secure Access to Individual Utility Compliance Deliverables:



Example Utility Service Line Dashboard from a Project in Connecticut.

Work Plan Outline

Phased Approach to LCRR Compliance

As outlined below, Hazen's proposes a phased approach to assist MWDOC and partnering OC Water Agencies to successfully complete and submit their individual SLI and remaining compliance deliverables to DDW prior to the October 2024 deadline.

CONTINUOUS TASK

- **RFP Task 1:** Project Administration and Progress Reporting
- **RFP Additional Task 4:** Hazen Recommended Additional Task: LCRR Funding Assessment / Application

PHASE 1 Building a Service Line Inventory

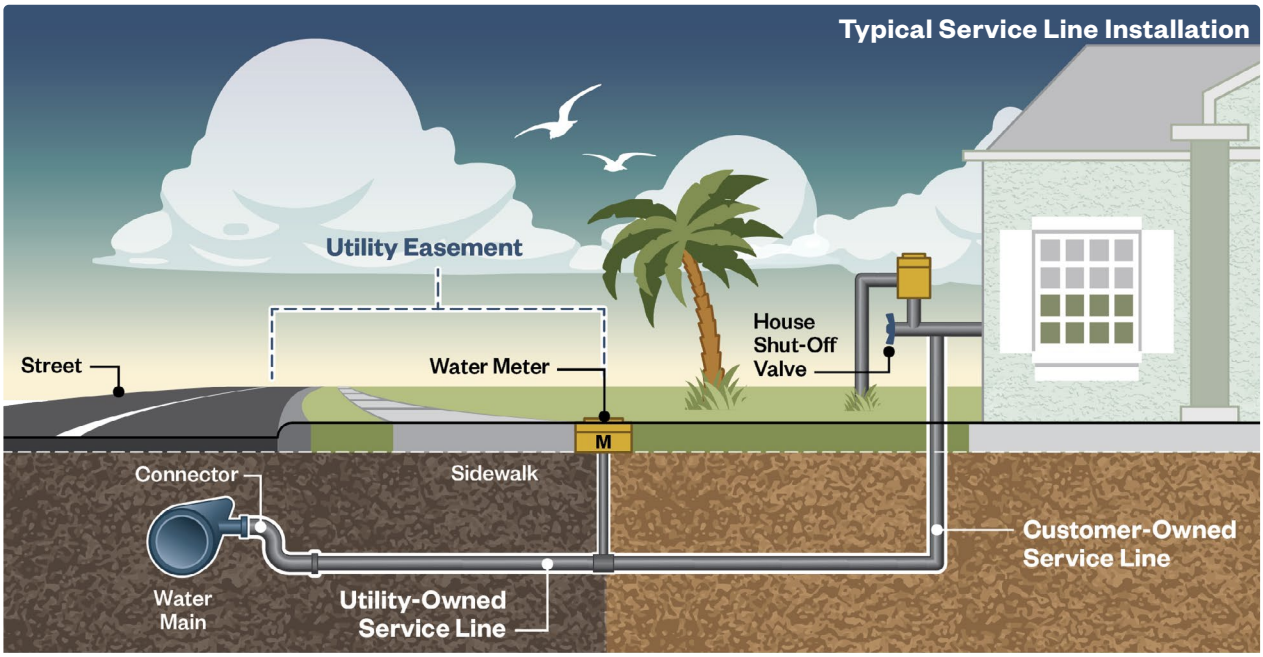
- **RFP Task 2:** Assist with Data Gathering, Records & Historical Code Review
- **RFP Task 3:** Develop LSLI Database and Initial Inventory
- **RFP Task 4:** Develop a DDW Approved Approach for Alternative Material Verification Methods
- **RFP Task 5:** Apply DDW Approved Alternative Verification Methods
- **RFP Task 6:** Assistance with Data Analysis
- **RFP Additional Task 1:** Integrate Service Line Inventory into Agency Asset Management System

PHASE 2 LSL Occurence Analysis

- **RFP Task 7:** Customer Communication
- **RFP Task 8:** Develop and Implement Private Property Owner Self-Verification
- **RFP Task 10:** Manage (Field) Inspections/Test Pitting/Meter Inspections
- **RFP Task 11:** Provide Field Inspection Personnel to Assist with Physical Visual Verification

PHASE 3 Sampling & Service Line Replacement Plan Development

- **RFP Additional Task 2:** School/Childcare Facility Sample Site Selection and SOP
- **RFP Additional Task 3:** Compliance Site Selection and SOP
- **RFP Task 9:** Develop Lead Service Line Replacement Plan
- **RFP Task 12:** Population of DDW Inventory Template and Service Line Inventory Submission



Typical service line configuration for utilities in California. This can be modified to fit each Agency's unique service line installation design.

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CONTINUOUS TASK

Task 1

Project Administration and Progress Reporting

To best serve MWDOC and partnering OC Water Agencies, Hazen considers Task 1 a continuous project task, and in accordance with the RFP, this task comprises the following key components (1) project communications, (2) meetings, (3) data collection and management, and (4) invoicing and administration. In addition to these subtasks, Hazen recommends participating OC Water Agencies consider applying for funding to support LCRR compliance activities as described in the section titled: Task 4-S Hazen Recommended Additional Task: LCRR Funding Assessment/Application/Implementation.

Proactive Communication and Meetings

On a regulatory compliance project with an expedited schedule, clear communication is key for project success. We will employ a streamlined approach to effectively communicate with MWDOC, individual OC Water Agencies, and, as needed, the public.

As described in the overall approach section, Hazen proposes to create a project website to provide MWDOC and partnering OC Water Agencies with a centralized location to access information resources, project schedule, recorded meetings and minutes, and training materials (including videos). The website will also be the location for individual Water Agencies to securely access their view of the inventory and a platform for directly uploading data files. Henceforth, the website will be referred to as the "OC LCRR Water Agencies Partnership" website.

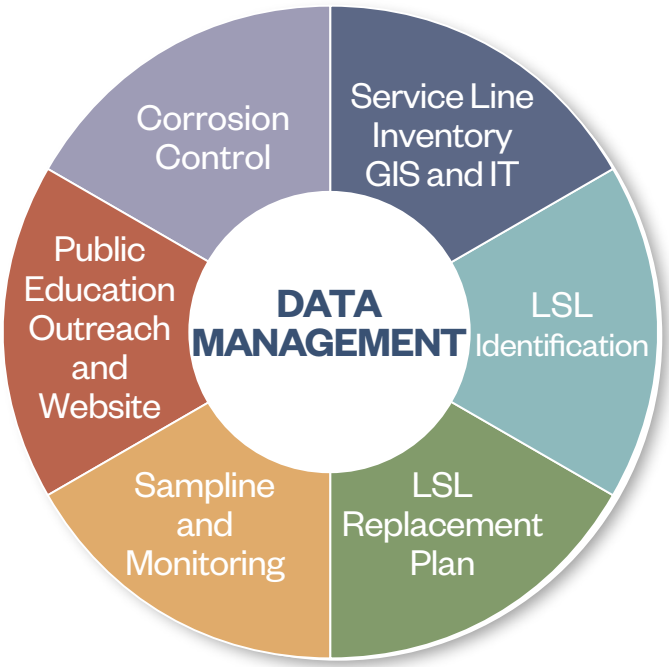
Hazen proposes to manage broad communication by utilizing the abovementioned website. Both collective meetings and meetings with individual OC Water Agencies will be held throughout the duration of the project. Meetings proposed include:

- Collective Meetings:
  - Kick-off meeting
  - Progress meetings
- Individual Agency Meetings:
  - Meeting to agree the level of effort
  - Institutional knowledge transfer meeting
  - Final preparation meeting (prior to inventory submission to DDW)

Data Collection and Management

Creating a sensible and reliable data management approach is critical to increased confidence in the SLI results. Each step of the process must follow defensible and straightforward methods that will ultimately support each participating OC Water Agency to compliance with US EPA and DDW SLI requirements.

To meet this objective, Hazen's proposes a data management approach includes the following (next page):



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Our approach to data management will leverage existing tools and datasets to provide easy integration into Water Agency digital infrastructure.

Use of Commercial Off-The-Shelf (COTS) Software.

Hazen will depend on commercial off-the-shelf (COTS) Esri software and cloud infrastructure for data management. This approach provides flexibility in the customization of data and applications while providing security through established authentication protocols and best practices provided by Esri.

Leveraging Existing Tools and Datasets.

Hazen will work with the participating OC Water Agencies to leverage internal resources, existing tools, datasets, and expand existing GIS feature classes to meet US EPA and DDW SLI requirements.

Customization Based on Individual Agency Needs.

Hazen will determine hosting and development based on each agency's requirements. A gap analysis will determine data needs for each utility to achieve LCRR compliance and population of DDW template.

Automation through Python.

Hazen proposes to use Python scripting, a highly reliable and robust open-source programming language (i.e., non-proprietary), within ArcGIS software to automate the following:

- Generation of LCRR templates and summary reports (consistent with DDW formats).
- Generation of service line material update and service line replacement update reports for submission to DDW.
- Generation of status emails and required customer notification reports.
- Likelihood analysis or machine learning analysis results.
- Data backups.

Python is scalable across multiple systems, simplifies revisions and document creation re-runs, keeps record, and is repeatable.

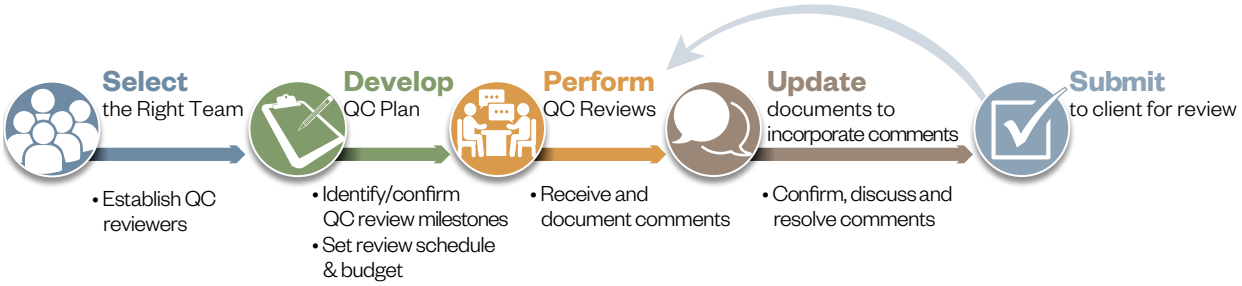
Hazen will utilize familiar, non-proprietary software and standard tools, such Esri ArcGIS, to develop a custom SLI for each partnering OC Water Agency.

Invoicing and Administration

Hazen will provide project management services throughout the project, including preparation of invoices (in MWDOC approved format) and progress reports to detail project progress for internal agency and public uses. Hazen's culture of highly technical services encompasses not only technical areas of projects, but also provides effective management of the scope, schedule, and budget. We utilize our custom-built Power BI Project Management Dashboards to track and manage all project financials.

Quality Control

Quality Assurance and Quality Control (QA/QC) is part of our culture at Hazen and is integral to successful project management. Our Program Manager, **Nicole Blute**, provides strong technical leadership and focuses on quality at each level and project stage, including formal QC reviews. Our overall QA/QC process is depicted below.



Deliverables

- Data request
- Project meeting agendas and minutes:
  - Meeting types: kick-off, level of effort agreement, progress, institutional knowledge transfer, final SLI preparation
- OC LCRR Water Agencies Partnership website
- SLI training documents and videos
- Monthly invoices in format agreed with MWDOC

Assumptions

- The contract will be administered through MWDOC.
- Meetings will be conducted virtually.
- The Agency will provide a summary of available records with samples for the inventory prior to meeting with the consultant to agree upon the level of effort for each category of service.
- Hazen will post progress reports/maps on the Water Agency's secure page accessed via the OC LCRR Water Agencies Partnership website.
- SLI-related training documents and videos will be posted on the OC LCRR Water Agencies Partnership website.

PHASE 1 Task 2

Assistance with Data Gathering, Records Review, and Historical Code Review

Hazen understands that the extent of work for this task is highly dependent on the condition and accessibility of existing records and files. Per the RFP, and listed in Task 1, Hazen will arrange to meet with each participating Water Agency to determine and agree upon the level of effort required to complete this task.

Proven Approach

Not only are record and code review required by the US EPA, they're also incredibly beneficial for LSL Inventory development and the selection of critical inventory criteria. Through extensive record and code review, the quantity of unknown service line materials may be greatly reduced, decreasing the need for costly field verification efforts.

In § 141.84 – Lead service line inventory and replacement requirements, the US EPA outlines various documents required for each water system's record review. Hazen's approach begins with a "wide and shallow" record review, or subset, used to determine which required records may provide further benefit in reducing unknown service line materials. We will establish a timeline noting the potential for lead during various time periods. In preparing for this proposal, Hazen conducted an initial assessment of MWDOC member agency service areas using historical state-wide plumbing codes (illustrated on page 14 and 15). To further increase confidence in effective lead bans and provide opportunities for more aggressive inventory criteria options, local plumbing codes and system-specific historical records will be evaluated.

Recommended Records Review

To begin evaluating available information and historical records, Hazen recommends an initial records research to align with US EPA-requirements, and depending on availability may include the following:

- Private-side construction permits, e.g., plumbing permits.
- Existing records or other documentation that indicates the private-side service line material, e.g., tap cards, work order notes or forms.
- Distribution system maps and drawings of private connections (as-builts).
- Historical records on each service connection (inspection records).
- Meter installation records, e.g., typical details, GIS data on locations, diameters, and installation dates.
- Historical capital improvement plans (for as many years available).
- GIS data with installation dates, location, diameter, and material data for water mains and service lines.
- Customer billing data which includes connection dates and active accounts.
- Property Appraiser's Database (including construction date).

Through casting a wide net for record review, Hazen has a proven track record for finding records and codes that further reduce the quantity of unknown service lines. The key goal of this approach will be to provide sufficient evidence and criteria to categorize unknown service lines as non-lead, while limiting time-consuming and costly field verification.

Hazen Advantage

While the use of lead service lines in the state of California was limited, galanized service lines were widely installed. Leveraging Hazen's wide breadth of knowledge on galvanized service lines from Water Research Foundation #4910 "Evaluating Key Factors That Affect the Accumulation and Release of Lead from Galvanized Pipes" and experience supporting neighboring utilities on similar challenges, the Hazen Team can outline multiple pathways involving record review to confidently move GRR into a non-lead category.

Deliverables

- Upon receipt of the summary of available records from the Water Agency (Task 1), Hazen will develop a data request summarizing information needed for the SLI and submit the request to the Water Agency.

Assumptions

- Summary of available records from the Water Agency is received prior to kick-off meeting.
- The Water Agency will provide available GIS records of service line or meter locations, or a customer account service listing to identify which parcels or buildings are served by the system.
- The Water Agency will securely upload all data files via the upload feature provided on the OC LCRR Water Agencies Partnership website.
- Support for continued record review, if requested by a Water Agency, would be under a separate task order.

PHASE 1 Task 3

Develop Lead Service Line Inventory Database and Initial Inventory

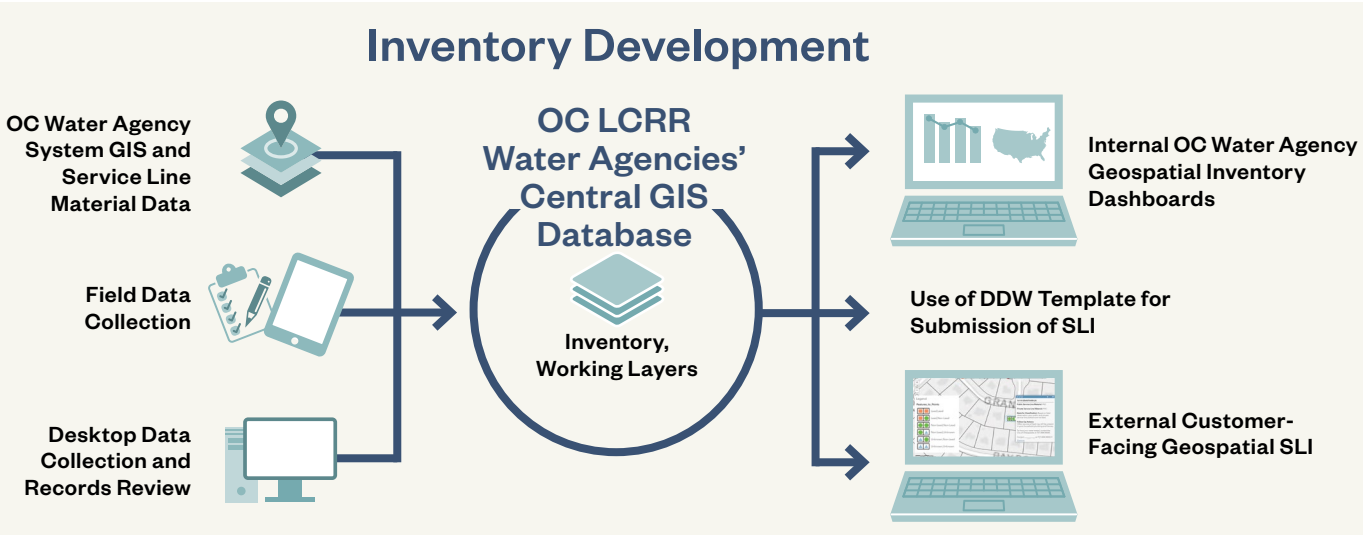
Hazen will work with MWDOC and the participating Water Agencies to leverage internal resources, existing tools, and datasets and expand existing GIS feature classes to meet DDW inventory requirements. The SLI will be developed to serve as a central live database to streamline other LCRR Compliance deliverables.

The SLI will serve not only replacement efforts, but also be a tool for achieving other compliance requirements. With a well-designed inventory, tasks such as sample site selection,customer notification, and replacement progress dashboard updates can be automated to maintain compliance for years to come. These strategies have been implemented for utilities such as Sweetwater, Tempe, LADWP, and New Hampshire DES.

If acceptable to agencies to use a GIS platform, Hazen will utilize ArcGIS products and collect, integrate, and display data. The databases will be set up to enable statistical interpolation and predictive modeling for LSL if statistical modeling is selected as an optional task. The final database is ArcGIS compatible and can be integrated into an agency's extended plan for LCRR.

Proven Approach

The development of the SLI will begin with an assessment, compilation, and integration of available historical records including construction date, water connection date, meter tap size, water service orders, customer provided information, and other data sources. These data layers will then be input into an ESRI ArcGIS model to "join" useful information to the associated service line identifier (such as the water meter or location ID). The established criteria will then be used to discern if the service material is lead, non-lead, galvanized requiring replacement (GRR), or unknown on both system-owned and customer-owned. The system-owned and customer-owned service connections may pull from different criteria to highlight how each is a unique data set. Python scripting will be used to automate the population of the DDW Inventory Template, which will now be required for inventory submission.



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Preliminary Assessment of 15 OC Retail Water Agency Service Areas:

The customer-side lead likelihood was assessed using the construction year of service area parcels. Through a more thorough record review, Hazen can further document confirmed locations of LSLs, predict the location of unknown LSLs, and document service lines as non-lead within Water Agencies' service areas.

Historical Records Research



1900-1929

Highest likelihood of LSL's based on national research.

1950-1986

DDW-recognized time period in which lead was typically not used in California.

1900 '10 '20 '29 '40 '50 '60 '70 '80 1986

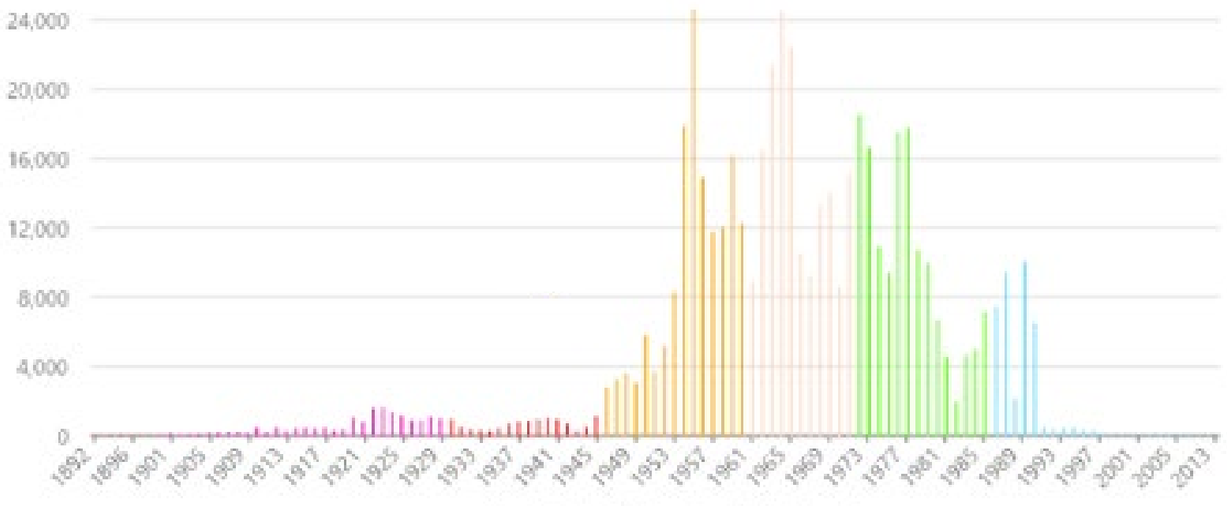
1986

California Lead Ban/California Health and Safety Code Section 300.6

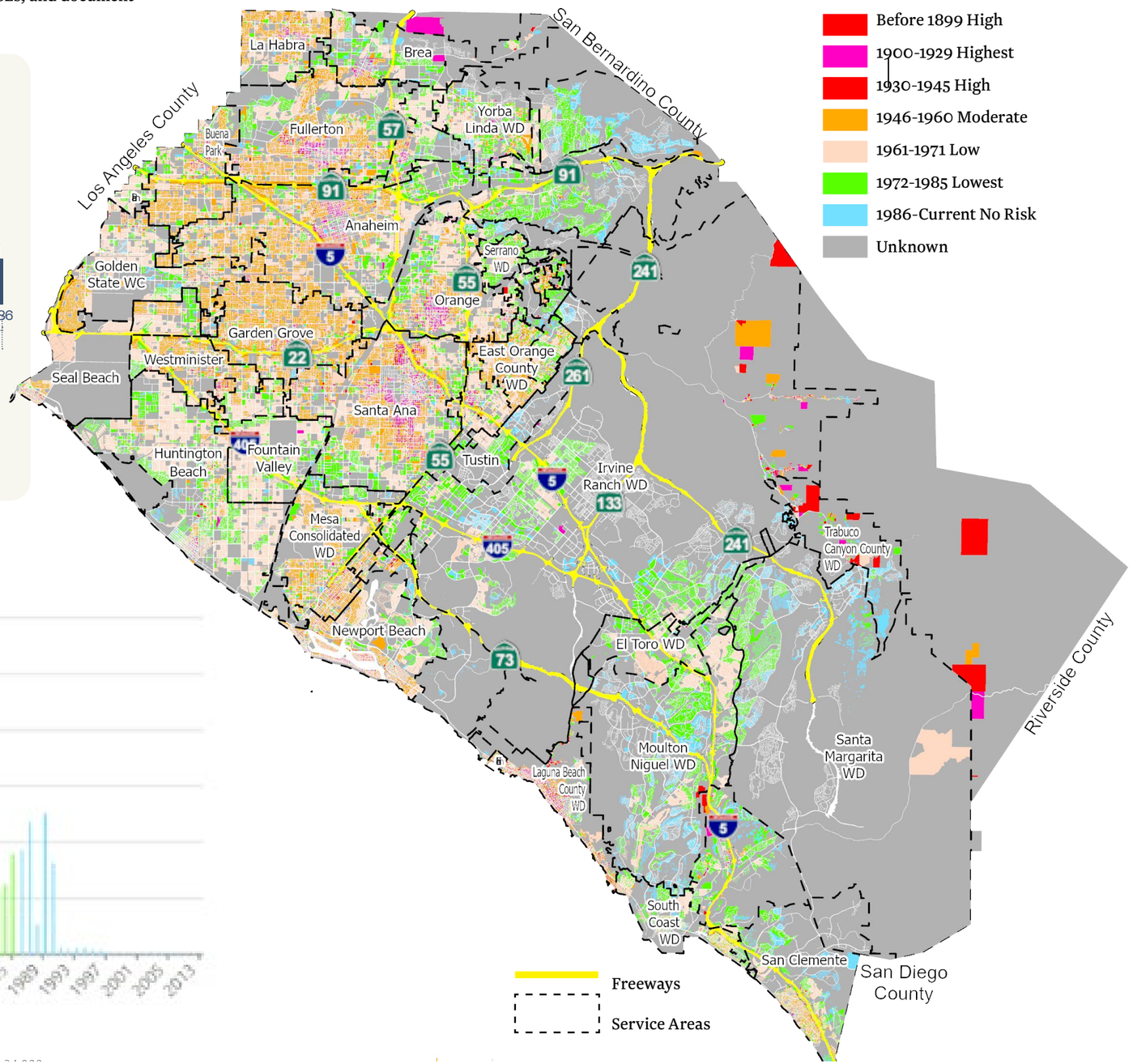
1986

U.S. Congress amends the Safe Drinking Water Act to ban lead.

Understanding Lead Likelihood in MWDOC Member Agency Service Areas



Year Built Split by Lead Likelihood

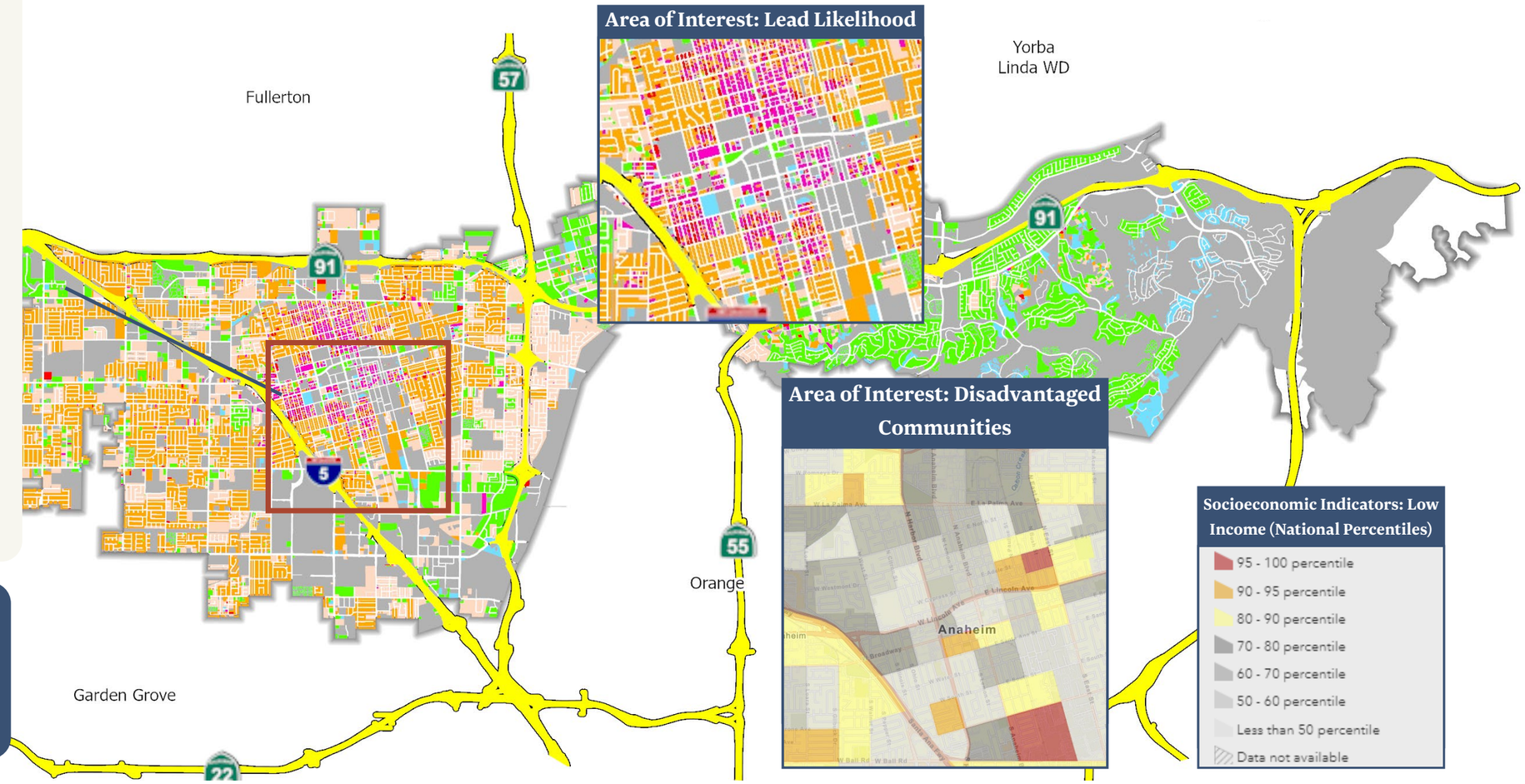


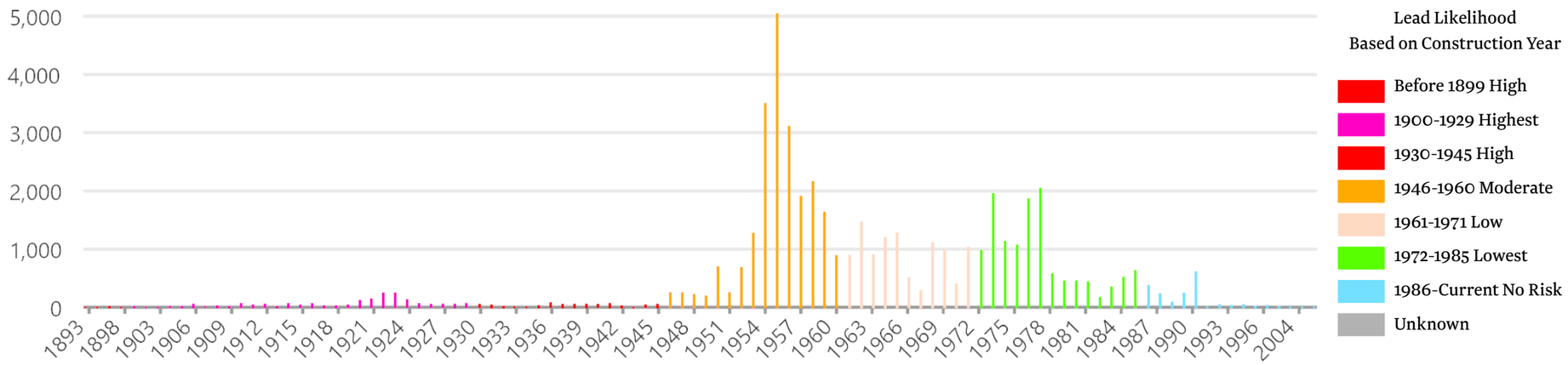
Understanding Lead Likelihood
City of Anaheim

An example preliminary LSL occurrence heat map has been provided for the City of Anaheim system to delineate areas of the City which may have the highest likelihood for lead based on County Assessor's parcel information and criteria developed using national and state plumbing codes. This map will be developed and updated for all participating MWDOC agencies based on historical records research results and will be used to prioritize field investigation and replacement efforts.

Prioritizing Disadvantaged Communities:

The EPA Environmental Justice Tool maps out several socioeconomic and environmental indexes to highlight disadvantaged communities. Layering this tool with existing service line data can provide insight to prioritize the verification and replacement of service lines in these vulnerable areas, as well as maximize principal forgiveness in funding.





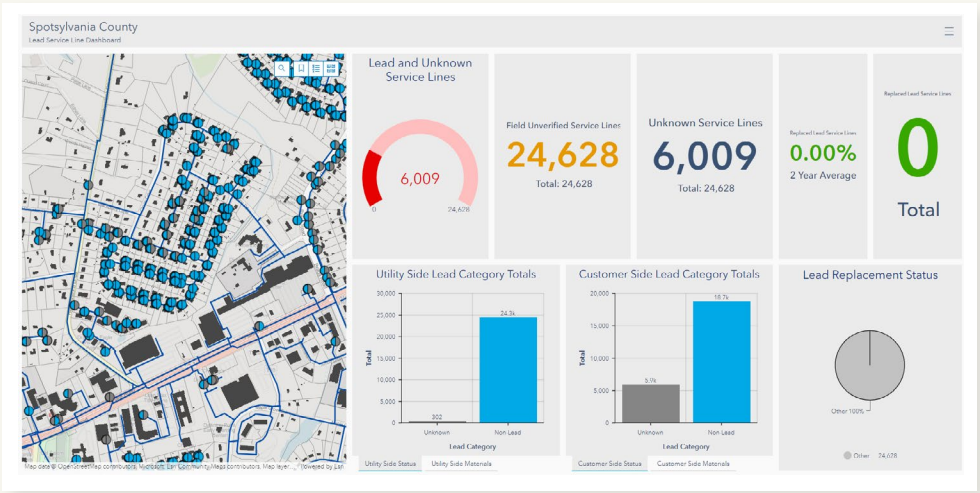
Hazen Advantage

With more than a 35 SLIs successfully completed, Hazen employs a multi-faceted approach to build a digital inventory capable of integrating existing database frameworks as well as subsequent investigation efforts. Hazen is prepared to package and deliver automatic updating features that will further simplify future inventory updates. The goal of our approach is to maximize the confidence in identifying LSL's, GRR, and Non-Lead service lines as cost-effectively, streamlined, and efficiently as possible not just now but for the foreseeable future. The resulting inventory is produced in a non-proprietary software, ESRI ArcGIS, which allows the agency open access to the data set in the future without the burdensome red tape of competitors' proprietary software(s). The proposed ArcGIS tool will provide functionality and encourage continued, straightforward updates long after the project is complete. Use of python scripting will streamline future inventory updates to DDW, completing what is normally a time-consuming task with the push of a single button.

Seamless Digital Integration

Hazen will provide MWDOC with a custom-built Service Line GIS Dashboard, creating a robust inventory and narrative for targeted visual identification.

The dashboard will include site - specific parcel information and address search functions, mobile app interface that can be utilized by City operators to provide live updates to the database, and the option to correlate identification results with key attributes to predict LSLs or galvanized service line location.



Example dashboard from a Hazen LCRR project in Virginia

Deliverables

- SLI database for the collection, integration, and display of service line information using ESRI ArcGIS (unless a spreadsheet approach is preferred by an agency).
- Preliminary inventory maps will be provided to show data gaps and areas of prioritization for internal use, and online public display of inventory status for customers.

Assumptions

- Hazen will utilize the definition of a GRR service line approved by DDW which states: *"Galvanized Requiring Replacement" (GRR) where a galvanized service line is or was at any time downstream of a lead service line or is currently downstream of a "Lead Status Unknown" service line. If the water system is unable to demonstrate that the galvanized service line was never downstream of a lead service line, it must presume there was an upstream lead service line."*
- Water systems will provide all available water system data (i.e., service connection, water mains, parcel data, etc.), as well as an electronic Real Estate Assessor's database for the water service area in GIS format indicating building construction dates and building types.
- SLI will include all US EPA and DDW required information pertaining to LCRR SLI compliance.

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PHASE 1 Task 4

Develop Approach for Alternative Material Verification Methods and Submit to Division of Drinking Water (DDW) for Approval

Proven Approach

Following the initial LSLI development, several "lead status unknown" service lines will likely remain in each system. We will develop an action plan to help identify these unknown service lines. Hazen has experience with various service line material identification methods and will create a systematic, cost-effective service line identification program for each agency.

Hazen will evaluate alternative material verification utilizing direct and indirect methods in this task, including:

1. Field inspection
2. Customer validation (Task 8)
3. Sequential sampling
4. Statistical analysis
5. Predictive modeling

The considerations for each of the potential verification methods are described in the table below. A combination of these available efforts will likely be required, and selection of the most cost-effective methods will be impacted by available resources and community characteristics.

DDW-Approved Verification Method Type	Relevance for MWODC	Cost
Viewing/Survey of Service Line Entry into Building by Water Customers or 3rd-Party Entities	Effective method with sufficient public outreach. May require confirmation at the meter but can save money by reducing excavation on private property.	$
Predictive Methods*	Predictive methods can be used to target field inspections and replacement.	$$
Water Sampling for Lead*	Requires establishing a community-specific threshold to indicate possible presence of an LSL: Invasive to the homeowner.	$$
Field/Visual Inspection	Field inspections completed by potholing can be costly and invasive. Other methods can be used initially to minimize need for field investigation, such as field staff surveys for identification during meter readings, replacements, and other routine and CIP field projects.	$$$
Other Tools/Instruments	Accuracy and cost effectiveness of other methods will be reviewed.	$$
Statistical Analysis*	Relies on statistics and system uniformity to interpolate or extrapolate service line materials within a given geographic area	$

*Method requires submission of approach and approval by DDW.

Potential Service Line Material Verification Methods

Verification Method	Considerations for Verification
 **Field Inspections**	Visual examinations of service line materials can be completed during ongoing meter change-out program or future water main replacement projects. Hazen will develop a mobile identification tool for field staff to verify service line materials. The app will prompt field staff to upload a photo of the service line, and results can be used to update the SLI automatically. A survey will be provided to guide staff through the identification process
 **Customer Validation**	Hazen is proposing to engage and enable customers to verify service line materials. Customer outreach will be geared towards specific community needs and characteristics. Outreach methods may include a complete community-wide education program, and targeted communication using billing statement inserts, postcards, and door hangers to encourage customer participation. These materials will be made available for review on the MWDOC LCRR Service Line Inventories Hub.
 **Sequential Monitoring***	Sequential sampling can determine the presence of lead at locations with a high likelihood of containing an LSL or GRR service connection. While elevated lead levels for sequential samples can be used to verify the presence of lead, a low lead result cannot be used to indicate the absence of lead.
 **Statistical Analysis***	Multiple types of geospatial statistical analysis are available today requiring case-by-case approval from DDW. These include interpolative analysis and confidence levels. Interpolative analysis is typically applied within subdivisions or other geographically distinct areas that follow similar construction styles. This method fits well within service areas with older subdivisions or geographically distinct areas. Alternatively, a confidence level approach allows a service area to rely simply upon statistics, often requiring a significantly lower number of sites even than interpolative analysis for large sample sizes.
 **Predictive Modeling***	Hazen will identify systems that would benefit from machine learning. Hazen will develop a custom machine learning program using non-proprietary software to streamline field verification and identification efforts for these identified systems. If approved as a verification method, Hazen will coordinate with DDW to validate statistical model requirements and ensure the model complies with DDW guidance.

* DDW case-by-case approval

Hazen will work with key staff to identify internal resources and establish a systematic approach to identifying service line materials within each system. The outcome of this exercise will be the development of standard operating procedures (SOPs) for service line material verification that will be embedded into a larger, more comprehensive Service Line Identification Action Plan. This will include procedures and tools for data collection and storage, a prioritization strategy and index for field verification, as well as customer education and outreach materials to engage customers in assisting with service line identification. The identification program will build upon both existing and future CIP projects, and prioritization will consider areas with the highest likelihood of containing lead and locations with sensitive or disadvantaged populations.

The most costly aspect of the inventory development will be field investigations of service lines, both in the utility right-of-way and on customer property. Our goal is to use every tool available to minimize the need for physically excavating service lines. This approach is a win-win strategy by both saving costs and reducing customer impacts.

Hazen Advantage

Hazen has successfully worked with multiple agencies, including in California, to create, define, and implement strategic alternative, or indirect, service line material identification programs. These programs have effectively reduced tens of thousands of sites to less than one thousand sites in some cases, and Hazen understands that all Member Agencies will want a varied level of site reduction as a trade-off for higher assurance of non-lead service line materials. The Service Line Identification Action Plans will follow a template-approach for cost savings that carries through for each Member Agency while allowing for distinction between the unique, intricate aspects of each system to utilize the most personalized option.

Deliverables

- Hazen will develop a Service Line Identification Action Plan and obtain DDW's pre-approval of alternative methods of verification.
- Hazen will provide the Water Agency with pre-approval verification notification(s) from DDW for all alternative methods of verification.

Assumptions

- Machine learning, or predictive modeling, may be selected as a recommended option. Machine learning requires substantial additional efforts including data curation, training, and retraining of the model. This can be done by Hazen under a separate task order.
- DDW pre-approval for alternative methods of verification required prior to commencement of analysis work.
- Review of field verification results and updates to the SLI may be done by the Water Agency staff, or Hazen under a separate task order.
- DDW will respond to requests for pre-authorization of alternative methods of verification within 2 weeks of receiving the request.

PHASE 1 Task 5

Apply DDW Approved Alternative Verification Methods

Proven Approach

After each agency has selected a preferred alternative, or indirect, method for service line material identification, Hazen will coordinate with **Blaine Tech** to implement this concept in the field. This includes providing substitute sites, as needed, that still meet DDW's randomized sample site requirements, for example. This effort will be specific to each Water Agency's selected method, service area, and even individual sites.

Following field verification, Hazen will utilize robust data management efforts to appropriately categorize and identify each of the service lines relying upon the alternative method.

Hazen Advantage

The Hazen team is successfully supporting agencies with the application of approved alternative methods in their service area currently. Unique challenges and solutions are available for each alternative method, and Hazen will support MWDOC through this effort leveraging prior experience.

Included in Scope Enhancement: Automated Processing and Simplification of Reporting

Hazen can write Python scripts to automate the following:

- Generation of LCRR templates and summary reports
- Generation of service line material update and service line replacement update reports for submission to DDW
- Generation of status emails and required customer notification reports
- Likelihood analysis or machine learning analysis results
- Data backups

Deliverables

- List of prioritized sites for verification.

Assumptions

- Alternative methods will remain the same after selection by each Water Agency for the duration of the project.

PHASE 1 Task 6
Assistance with Data Analysis

Service line verification is a critical component in providing updates to the initial LSLI. The chosen service line identification methodology will be applied to collect verification data. Following the field verification, Hazen will coordinate with Blaine Tech to ensure the data is received efficiently. Hazen will leverage a comprehensive data management effort to streamline the service line material identification and categorization process. This analysis could include determining strategic areas of additional verification if LSL or GRR are discovered during service line material identification, for example. The LSLI will be updated with service line material identification and categorization results.

Hazen Advantage

Updates to the inventory will be streamlined through Hazen's proposed data management as service line material identification progresses. Hazen has successfully worked with other agencies to review and analyze verification data. Distinct challenges may arise when conducting analysis on verification data and service line identification. Hazen team members have direct and applicable expertise to create customized solutions.

Deliverables

- Hazen will provide updates to the custom-built Service Line GIS dashboard. Hazen will develop a web-enabled version of the Service Line Inventory suitable for public interface to satisfy applicable DDW publicly available inventory requirements.

Assumptions

- Pipe material identification is possible with approved methods and select approved alternative methods of service line verification. If pipe material is desired to be included in the inventory updates compared to a non-lead classification as described in the RFP, then this needs to be considered by the Water Agency when selecting the verification method.

PHASE 2 Task 7
Customer Communications

Public education and outreach are key components to the success of an agency's compliance program. The LCRR will require utilities to provide both routine and rapid public notification. Given the sensitivity of lead materials in drinking water, it is important to get ahead of public perception. Optimizing participation in voluntary programs requires clear and concise messaging, a customized strategy, and materials that maximize return on investment. Hazen will support agencies in developing effective messaging that influences program participation, focusing on project needs, and emphasizes project benefits to participating customers.

Proven Approach

Hazen will work with MWDOC Water Agencies to develop and implement a communications outreach campaign, for businesses, residents, and property owners. Hazen will work with Water Agencies to customize effective public education, outreach, and notification materials regarding inventory deployment as well as potential field investigation and replacement efforts. All customer communication and notification material will stored on the secure OC LCRR Water Agency Partnership website for acceptability. The campaign can include both broad and/or targeted communications.

Broad Community Communication. Hazen will work with the Water Agencies to develop a compelling, community-wide public education campaign that will inspire participation and align all the materials with a polished, professional appearance. Hazen will conduct a customer communication meeting with MWDOC and Water Agencies to explain regulatory requirements and options for public outreach to guide utilities in deciding which approach best fits their system. Additional communications and outreach support can be provided to systems as needed.

Targeted Communication. As needed, Hazen can work with the Water Agencies to design targeted communication materials to gain community support and participation in sampling and service line material identification efforts. These materials will distill complex technical concepts into concise, compelling messages. Hazen recommends a baseline set of materials (e.g., emails, program fact sheet.) for use throughout all systems, in addition to a collection of materials (door hangers, postcards, and transit and radio public service announcements) for use in targeted areas.

Hazen Advantage

Hazen will develop a communications plan that will outline required and recommended communications materials as well as a detailed schedule for implementation. Outreach efforts will be coordinated with ongoing LCRR compliance tasks to ensure that customers are well informed and aware of agency efforts to further protect public health. Strategically, the most important tactic is to use this messaging to shape a one-stop shop for customer-focused program information on the Agency's website. While some printed materials will need to communicate program information independently to audiences unlikely to visit the website, most other materials developed to support the program will drive traffic to the website for detailed information and visual explainers. By developing clear messaging and website navigation, this cost-effective approach will limit the need for agency staff to handle customer calls and inquiries.



Example LSL Identification and LSL Replacement Customer Communications Materials

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Deliverables

- Hazen will conduct a "communications outreach campaign" workshop to discuss LCRR-required and optional customer communication and outreach strategies and materials.
- Hazen will prepare educational training videos, as well as outreach materials and post them to the OC LCRR Water Agencies Partnership website for agencies to use in conducting both broad and targeted customer outreach. Prepare and launch "communications outreach campaign."
- If desired, Hazen will meet with the agency to develop a customized communications plan and implementation schedule.

Assumptions

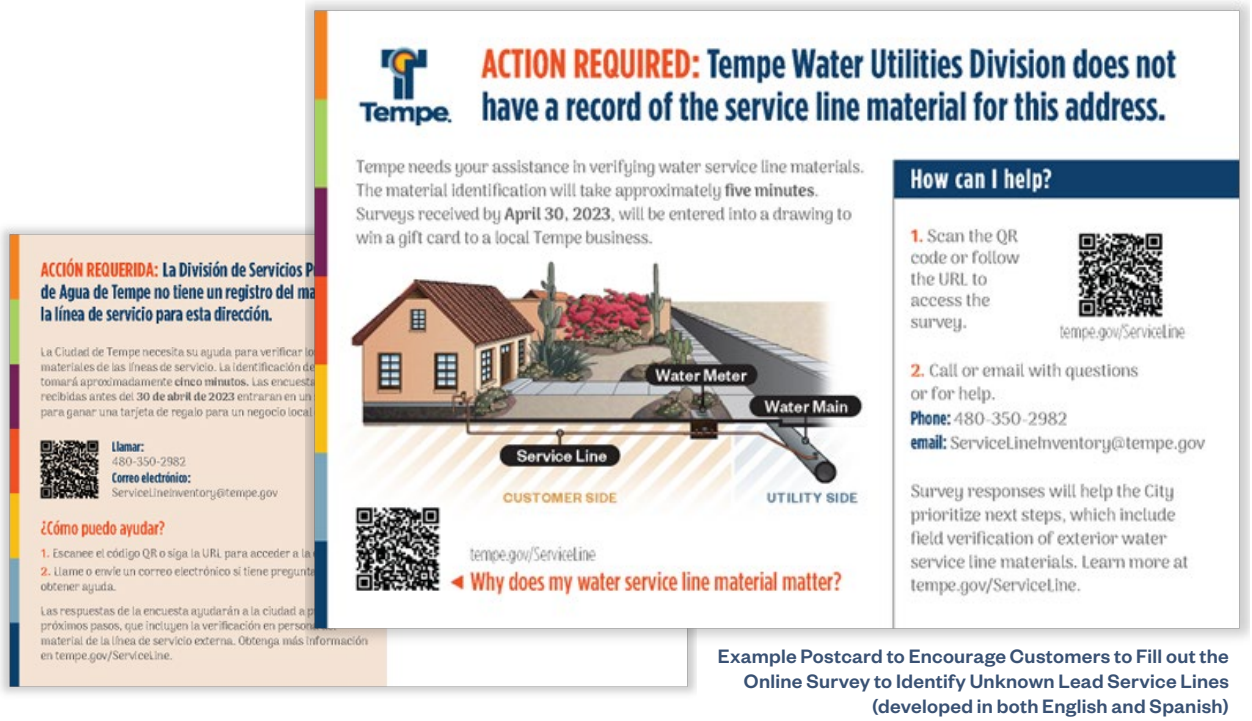
- Hazen will provide material templates and the Water Agency will be responsible for the printing of customer communications materials. The agency will coordinate with internal staff to execute communications plan and schedule.
- OC LCRR Water Agencies Partnership website will be used to schedule identified "gap" locations for private property owner self-verification and/or agency field verification.

PHASE 2 Task 8

Develop and Implement Private Property Owner Self-Verification

Proven Approach

Leveraging prior experience including currently publicly available self verification sites, Hazen will work with Water Agencies to develop a Customer Survey that includes a designed Postcard mailer following Water Agency standards, a draft Customer Survey series of questions and instructions, and the Customer Survey on the Survey123 platform which will be used to reduce the quantity of unknowns. An example of the Customer Survey via Survey123 that was prepared and managed by Hazen is available at tempe.gov/serviceline.



Example Postcard to Encourage Customers to Fill out the Online Survey to Identify Unknown Lead Service Lines (developed in both English and Spanish)

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During the self-verification process, it is likely that a subset of customers, e.g., <1%, will indicate that they have or have had a lead service line. This has been exhibited in prior Hazen survey efforts. For these cases, Hazen recommends a timely response of sending utility-staff, Hazen staff, or Blaine Tech to the site for a lead check swab that is US EPA verified. Furthermore, for potential GRR, DDW has previously approved approaches involving sequential sampling and review of home construction dates to move potential GRR into a non-lead category. Following regulatory coordination and approval, Hazen may assist in organizing special purpose sampling, e.g., sequential sampling, of select homes for this effort.

Hazen will design a Postcard mailer following Water Agency standards. An English and Spanish translation will be provided, as desired, and up to three (3) modifications to the Postcard will be included for development. An example of a mailer sent City-wide is available to the right.

Hazen Advantage

Hazen has a dedicated communications team that develops clear, concise materials for public outreach. Several examples that have been effective include QR codes and postcards sent to residents for self-verification.

Our team will manage the logistics of private property owner self-verification tests

Deliverables

- Customer Survey postcard (available in OC LCRR Service Line Inventories Hub):
  - Customer Survey questionnaire in Survey 123
  - Customer Survey QC Dashboard

Assumptions

- All Customer Survey materials will be hosted on the OC LCRR Service Line Inventories Hub. Data hosting costs will be the responsibility of MWDOC or the Water Agency.

PHASE 3 Task 9

Develop Lead Service Line Replacement Plan

An LSL Replacement Plan provides a structure for efficiently verifying and replacing pipes and is required if any unknown (i.e., could not be designated non-lead), lead, or GRR are present in the LSLI. Under these circumstances, the Hazen team will develop a customized LSL Replacement Plan in consultation with the Member Agency. In developing the plan, Hazen will take into account capital and time constraints, existing/ongoing replacement projects, and underserved / underrepresented neighborhoods, and include:

- Strategy for verifying material at locations with “lead status unknown”.
- Procedures for conducting a full LSL replacement.
- Recommend LSL replacement goal rate (Trigger Level Exceedance).
- Prioritization strategy.
- Procedure for customers to flush lines following replacements.
- Customer educational materials for a full or partial lead service line replacement.
- Funding strategy.

These initiatives will be supported by the SLI to provide agency staff and customers with replacement progress. Cost estimates for replacement and funding application efforts will also be provided for Capital Improvement Program (CIP) budgets.

Deliverables

- Lead Service Line Replacement plan

Assumptions

- Account for capital and time constraints, existing/ongoing replacement projects, and underserved/under-represented neighborhoods.
- Plan to be developed in consultation with the Water Agency.
- Water Agency will be responsible for evaluating legal strategies for accessing and replacing service lines on customer property.

If needed, Hazen will streamline LSL Replacements through integration with existing CIP projects, employing proven prioritization strategies to target LSL replacements in disadvantaged neighborhoods and sensitive populations.



Field Identification and Replacement of galvanized and lead service materials

PHASE 2 Task 10

Manage (Field) Inspections/ Test Pitting/ Meter Inspections

Proven Advantage

Mobile App: After deploying the ESRI Solutions Lead Service Line Inventory Database, Hazen will develop a customized ArcGIS Field Maps app to directly integrate field verification findings into the Lead Service Line Inventory Database. This Field Maps app will cover the required service line verification points as required by DDW. Service line sites may be assigned to Blaine Tech, as desired, within the app platform. Instructions for utilization of the Field Maps app will be included in Task 1's Training Materials that will be prepared for Blaine Tech.

Training Maerials: Hazen will prepare Training Materials for field verification methods describing the locations for service line field verification on the customer-side and utility-side, per DDW. Training Materials will further describe differences in service line materials, responses to field obstacles, and other pertinent information to ensure successful completion of the field work.

Identification Review: Hazen will coordinate with Blaine Tech to review Field Maps mobile app field verification submissions in the ArcGIS Online Field Maps QC platform. Each submission, as reviewed, will be designated as one of the following: inspected – submitted, inspected – completed, inspected – in progress, or inspected – rejected. Hazen will track Field Maps fields and high-level Blaine Tech progress in the Field Maps Dashboard. Hazen will provide field assistance as needed and as requested by the Water Agency.

Managing Customer Coordination: Throughout the field effort, customer education developed during Task 7 will be provided, as requested. Permission gathering may be coordinated early on during Task 8 with property owners through the Customer Survey. Otherwise, permission gathering is recommended at the agency-level involving existing Municipal Code review. Lastly, all customer data and activities will be captured in the mobile app following the customized app development process.

Hazen Advantage

The Hazen team has developed Field Maps apps for similarly sized water systems that have successfully streamlined field work. The customization of the Field Maps app further allows for DDW-specific and Water Agency-specific approaches to field work walking the Blaine Tech through the service line material verification process step by step. Additionally, Hazen will be prepare a dashboard for viewing the field work data real-time, determining the quantity of sites completed within a given time period, and tracking Blaine Tech success for approved submissions, avoidance of obstacles, and other metrics.

Deliverables

- Field Verification Mobile App.
- Field Verification QC Dashboard.
- Customer education, support, permission gathering or data capturing via OC LCRR Water Agencies Partnership website.

Assumptions

- The Field Verification Mobile App will be developed through ArcGIS Field Maps app available in the Apple and Google Play app stores. The field app can collect photos of service lines and tests conducted.
- Rate provided in Task 11 will be used to for site inspections. The number of site inspection to be determined.
- Costs associated with hosting all data in ESRI ArcGIS will be covered by MWDOC or the Water Agency.



Hazen team members were on-site with Utility staff to test out a utility-owned industrial vacuum truck prior to hiring a third party contractor.

PHASE 2 Task 11

Provide Field Inspection Personnel for Visual Verifications

Our approach to providing field verification personnel starts with engaging a firm dedicated solely to field services. Blaine Tech Services will be overseen by Hazen and will conduct the field inspection activities. Hazen has worked closely with Blaine Tech in the past, in projects where they have demonstrated their ability to quickly mobilize and support necessary field work in a cost-effective manner. Blaine Tech Services provide environmental sampling and field support services out of San Jose and has more than 30 years of experience in

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locally providing field support. Blaine Tech is focused on providing cost-effective, efficient field verification service for service line materials.

Hazen will coordinate closely with agencies and Blaine Tech to cover all critical areas for field verification including responses to obstacles, customer communications on-site, prioritization for strategic areas as local needs and challenges are present, step by step breakdown of the service areas, and more.

Hazen Advantage

Similarly to other aspects of LCRR program management, Hazen has the experience of managing multiple simultaneous field teams to swiftly and successfully complete service line material identification visually. Through this experience, we have noted that teams with industrial vacuum trucks and pressure washers for removing meter box debris are typically faster and more effective at meter box field verification. Our team, combined with Blaine Tech Services, will complete field verification with options included for with and without industrial vacuum trucks for all required sites seamlessly leveraging Hazen tools described in Task 10.

Deliverables

N/A

Rate Assumptions

- Technician and vehicle rate included and all of its on-board re-usable equipment. This equipment includes, but is not limited to, hand tools and material testing kits. Technician and vehicle with industrial vacuum rate include its onboard re-usable equipment. Equipment includes truck or trailer mounted industrial grade vacuum, hand tools, and material testing kits.

PHASE 3 Task 12

DDW Inventory Template and Service Line Inventory Submission

Proven Approach

DDW inventory template includes the required information for water systems to meet the LCRR's initial SLI requirement. Hazen will utilize ESRI solutions to populate the inventory template which will be modified to the DDW inventory template.

Hazen Advantage

Hazen's proposed data management approach will streamline this submission process and provide a seamless generation of future regulatory submittals. Hazen is working closely with DDW on the development of neighboring utilities' SLI and is aware that the submission of the SLI to DDW will now require the population of the DDW material template.

Deliverables

- Preparation and submittal of the DDW inventory template to DDW.

Assumptions

- Inventories submitted to DDW may require an additional edits/modification, to account for additional time, therefore inventories will be submitted before October 1, 2024.
- Hazen will provide revisions to DDW within 30 days of receiving comments.

PHASE 1 Task 1-S

Integrate Service Line Inventory into Agency Asset Management System

In accordance with the RFP, this scope associated with this task will be negotiated between the agency and Hazen and executed under a separate agreement from the proposed multi-agency agreement.

At a high-level, Hazen proposes to review and consolidate data from the agency and integrate the SLI database with the asset management system. Source of information my include:

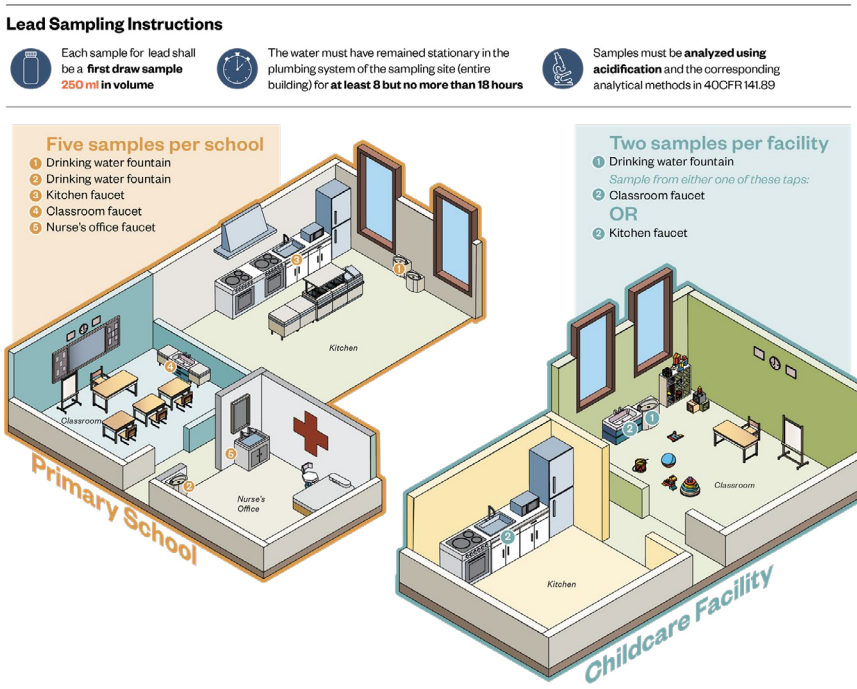
- GIS geodatabases and shapefiles
- Computerized maintenance management system (CMMS) asset data
- As-builts and design drawings
- Institutional staff knowledge
- Master plan documents

Once the data has been reviewed and consolidated, Hazen will identify gaps in the CMMS systems. Strategies will be developed and applied to address identified gaps, and relevant data utilized to update the integrated database. This data will then be linked to Esri ArcGIS tools such as ArcGIS Pro and ArcGIS Solutions to support LCRR work.

PHASE 3 Task 2-S

School/Childcare Facility Sample Site Selection and SOP

The LCRR introduce new requirements for sampling in schools and childcare facilities. Systems will be required to collect samples from at least 20% of primary schools and childcare facilities per year during the first five years and will be required to collect samples upon request. Systems will be required to conduct outreach to schools and childcare facilities about the sampling program and notify stakeholders of the results. Sampling requirements for schools and childcare facilities are illustrated in the next page. Schools and childcare facilities are considered as a type of Non-Transient/ Non-Community water systems. If present, the system will be responsible for coordinating sample collection reporting the results to the facilities and DDW. The LCRR will necessitate regular communications with schools and childcare facilities in the Water Agency Systems.



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Hazen will develop a sampling SOP to guide sampling and communication efforts.

In accordance with the RFP, if a Water Agency selects this task, the exact scope of this task will be negotiated between the agency and Hazen, with the scope of services to be agreed to in an agreement that is separate from this multi-agency agreement.

PHASE 3 Task 3-S

Compliance Site Selection and SOP

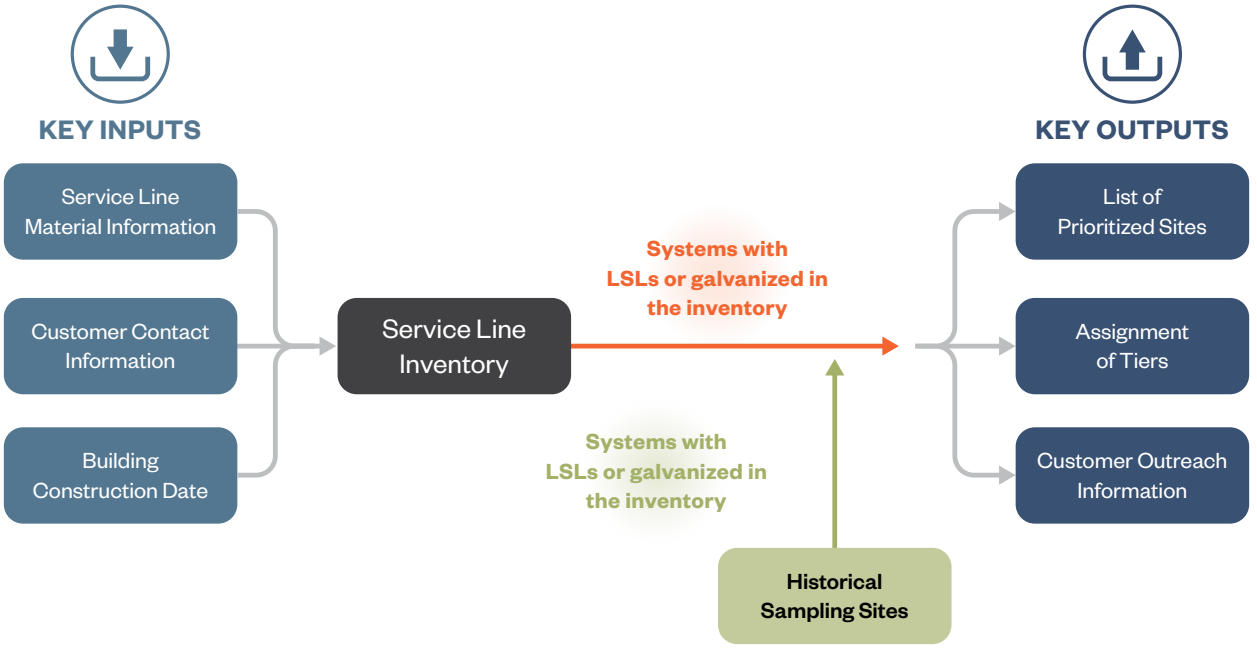
Proven Approach

The LCRR tier criteria will focus on sampling sites with LSLs and galvanized iron service lines. Using results from the LSLI, Hazen will provide recommendations for revising each community's LCR compliance sites to reflect the new LCRR tiered structure. Our proposed sample site identification process is illustrated in the figure below.

Hazen Advantage

Hazen will provide the following services:

- Evaluate existing LCR sample site list and prioritize historical sampling sites that meet updated tier criteria for sampling.
- Establish targets for the number of prioritized sampling sites in each system to provide contingent sites.
- Build upon the LSLI; identify a prioritized list of sampling sites meeting requirements for Tier 1-3 sites.
- Identify sampling sites as needed from historical sampling sites that are expected to meet Tier 4 or Tier 5 criteria when insufficient Tier 1-3 sites are available from the LSLI.
- Hold a virtual meeting with agencies to present the sample site identification process. Each agency will be provided their draft sample sites for review and comments. Input received from each agency will be addressed prior to finalizing the sample sites.



Proposed Sample Site Identification Process

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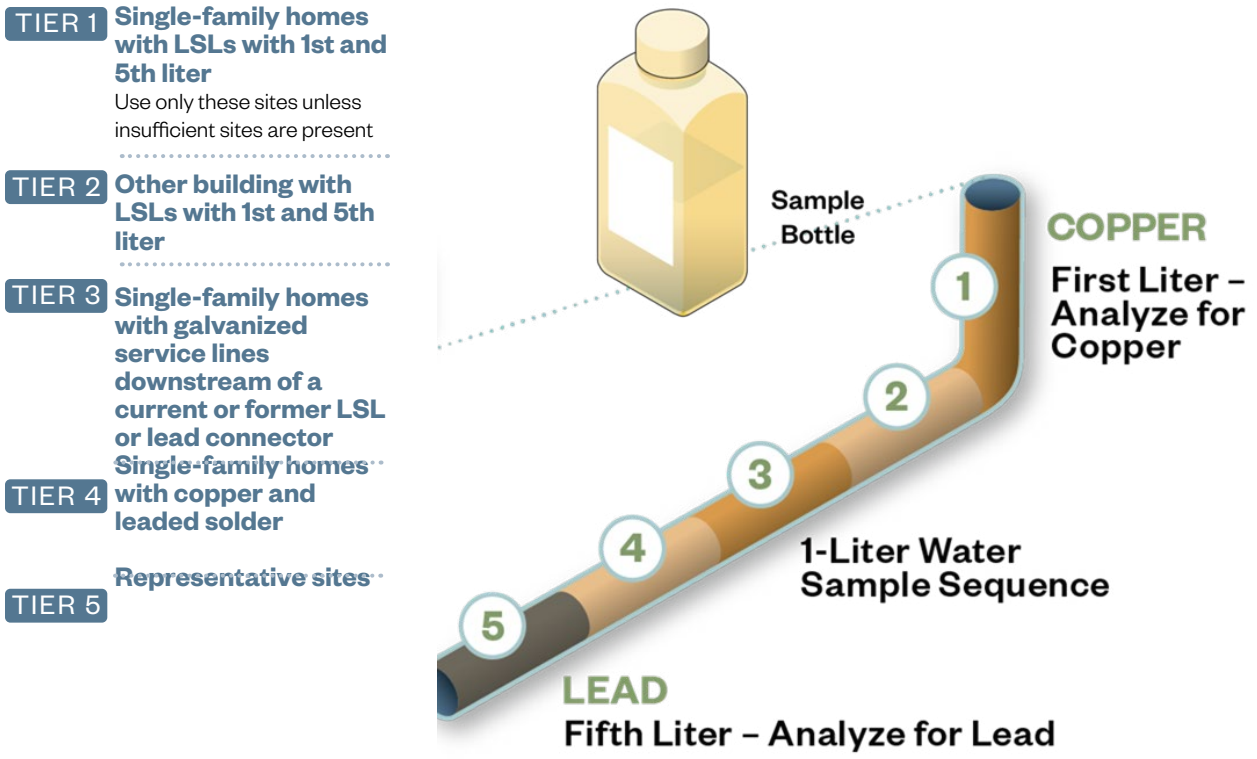


CONTINUOUS TASK

Task 4-S

Hazen Recommended Additional Task: LCRR Funding Assessment / ApplicationDescription

While the USEPA's deadline for the completion of the LSLI and Replacement Plan is October 16, 2024, completing these tasks early will allow MWDOC to maximize its ability to leverage current funding opportunities, such as the $1.2 trillion Bipartisan Infrastructure Law (BIL). BIL will allow the EPA to inject significant additional funding into the California State Water Resources Control Board's (SWRCB) State Revolving Fund (SRF) and the Drinking Water State Resolving Fund (DWSRF) programs over the next 5 years. California is slated to receive $3.5 billion over the next five years for water infrastructure and eliminating lead pipes to be obligated through SRF, DWSRF and new competitive grant programs administered by SWRCB, the Department of Water Resources, the Bureau of Reclamation (I.e., WaterSmart) and the Federal Emergency Management Agency (I.e., Building Resilient Communities and Infrastructure (BRIC) and the Hazard Mitigation Grant Program (HMGP). In addition, the Department of Water Resources (DWR) is receiving substantial BIL funding dollars. Hazen will utilize existing close relationships with DWR staff to identify launch dates and eligibility requirements, including potential agency prioritization of Disadvantaged Communities, to ensure that both federal and state dollars are secured for this project.

Proven Approach

- Perform research of grant funding opportunities; develop additional funding resources for both current and proposed projects.
- Assist MWDOC in preparation of grant funding plans to determine strategy for funding applications in coordination with other planning documents.
- Participate and assist MWDOC in grant writing development and proposal process; assist in reviewing, researching, and identifying grant funding opportunities; ensure compliance of applicable standards and specifications.
- Complete grant proposals; monitor proposals and funding application requirements.

Hazen Advantage

Hazen will work closely with the MWDOC, OC Water Agencies, the California Department of Public Health ,and the SWRCB to identify potential funding opportunities and then evaluate the benefit of each feasible funding alternative while considering impacts on schedule and total project costs of additional State and Federal processes and compliance requirements. This step will include analysis of the total program cost (e.g., including any federal cross cutter requirements), cashflow modeling, and comparing changes to rates under various funding scenarios. If MWDOC's priorities shift over the course of the contract, this strategy will be revisited and revised, as needed to remain a relevant guide.

Funding Assistance Secured by Hazen over the Past 10 Years

$1.6 Billion+
Grant Funding Amount

$4.1 Billion+
Total Funding Amount

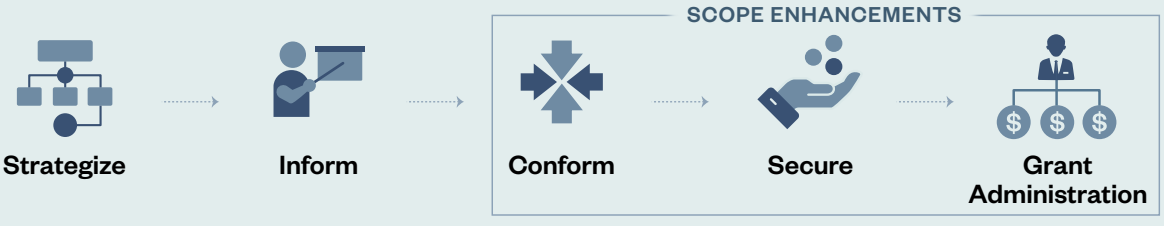
$2.5 Billion+
Loan Funding Amount

Deliverables

1. Funding strategy and implementation plan.
2. Produce successive drafts of the project narrative, budget, attachment, and forms.
3. If a funding agency issues a Request for Information, then information will be compiled and responded to in a timely manner.
4. Applications for eligible grant programs.

Hazen will help the OC Water Agency Maximize Available LSL Funding

Funding strategies and communication are important considerations for LSL replacement efforts, which may necessitate additional planning to develop a program that meets funding requirements.



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Section 3

Team's Record of Past Performance

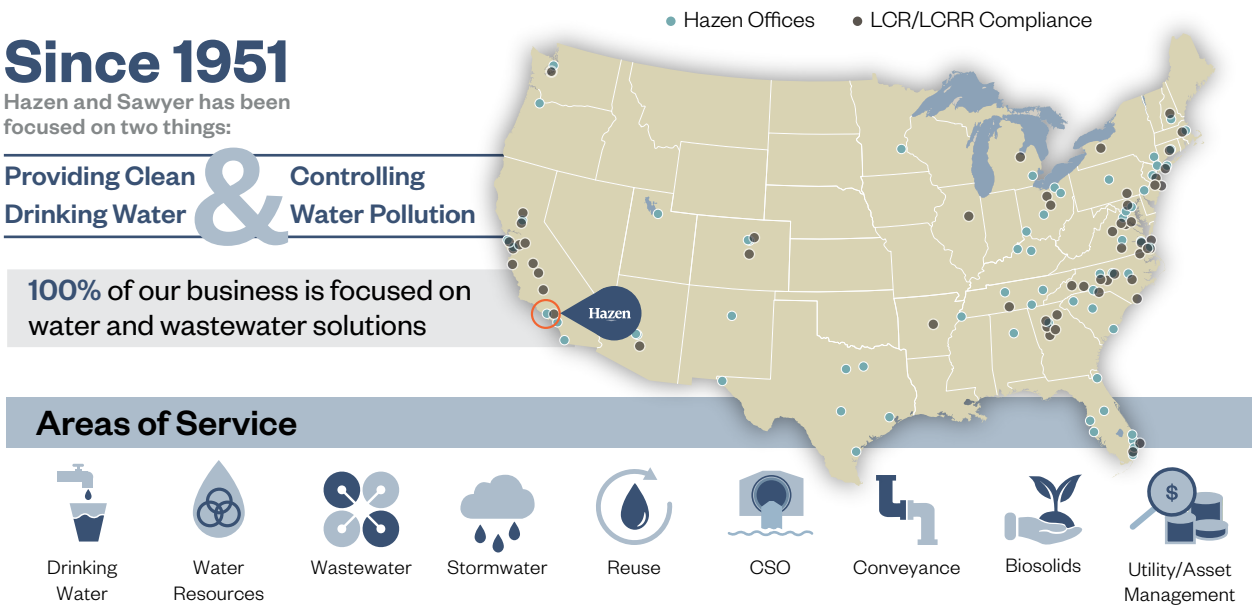
Section No. 3

Team's Record of Past Performance

Hazen has assisted clients with Lead and Copper Rule (LCR) compliance needs since the establishment of the LCR over 30 years ago and continues to support utilities with compliance with the LCRR.

The proposed Hazen team is providing similar LCRR technical assistance services to LADWP and Sweetwater Authority, and bring the skills and experience to support the participating OC Water Agencies in an flexible manner to achieve LCRR compliance.

Hazen is 100% focused on satisfying the needs of our clients. This includes delivering quality work, meeting schedules, and controlling project costs. The projects we feature in this section are examples of the Hazen team delivering on all of those committments. We encourage you to reach out to our project references to hear directly from them.



Technology Resources Sustain Hazen's LCRR Successes

Developed **20+** non-proprietary predictive models

Developed **125** dashboards for clients

Supported public LCRR communication programs for **20+** clients

35+ LCR compliance and program management projects completed

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Similar Project Experience

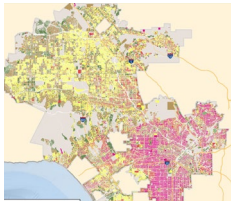
Our team brings demonstrated success in all elements to assist participating OC Water Agencies in the development and submittal of their LSLIs to DDW by the October 2024 deadline. A selection of our relevant experience is presented in the table below. Five of these comparable and successful projects that demonstrate the Hazen team's exact capabilities needed in the proposed project project are described in the subsequent page.

LCRR Project Experience

Client/Location	Customers	LCRR Compliance	LSL Inventory	LSL Identification	LSL Replacement Plan	Sampling and Monitoring	Customer Outreach	Funding Support	GIS and Program Tracking Dashboard	Geospatial LSL Likelihood Analysis Modeling or ML	Implementation Assistance	Multi-Year Program	Regulatory Coordination
Los Angeles Department of Water & Power, CA	**4,000,000**	■	■	■	■		■	■	■	■	■	■	■
Sweetwater Authority, CA	**200,000**	■	■	■	■		■	■	■				
City of Tempe, AZ	**185,000**	■	■	■		■	■	■		■		■	■
New Hampshire, NH	**99,000**	■	■	■		■	■		■	■		■	■
Baltimore, MD	**400,000**	■	■	■	■	■	■	■		■	■	■	■
Olympia, WA	60,000	■	■	■	■	■	■		■	■			■
City of Kingman, AZ	33,000	■	■								■		
Soldier Canyon, CO	65,000	■	■	■	■	■	■	■	■	■	■	■	■
City of Englewood, CO	49,000	■	■	■	■	■	■	■	■	■	■	■	■
City of Glendale, AZ	250,000	■	■	■		■	■	■		■		■	■
City of Peoria, AZ	200,000	■	■	■		■	■	■		■		■	■
Charles County, MD	75,000	■	■	■	■	■	■	■	■	■	■	■	■
Leesburg, VA	60,000	■	■	■	■	■	■	■	■	■	■	■	■
Washington Suburban Sanitary Commission, MD	1,800,000	■	■	■	■		■						■
Miami-Dade WASD, FL	2,300,000	■	■	■	■	■	■	■	■	■	■	■	
City of Chesapeake, VA	200,000	■	■	■	■			■	■	■	■	■	■
Connecticut Water, CT	105,000	■	■	■	■	■	■				■		
Miami Beach LCRR Program Assistance, FL	90,000	■	■	■	■	■	■	■	■	■	■	■	
City of Gainesville, GA	159,000	■	■	■		■	■		■	■	■		■
Clayton County, GA	275,000	■	■	■		■	■		■	■	■		■
City of Buffalo, NY	276,000	■				■	■				■	■	■
Cobb County-Marietta Water Authority, GA	950,000	■				■	■				■		■
Virginia Beach, VA	450,000	■	■	■					■	■	■	■	■
Spotsylvania County, VA	230,000	■	■	■					■	■	■		
City of Winchester, VA	30,000	■	■	■	■				■	■			■
Cape Fear Public Utility Authority, NC	190,000	■					■				■	■	■
Charlotte Water, NC	818,000	■									■		■
City of Greensboro, NC	290,000	■				■					■		■
City of Atlanta, GA	1,200,000	■				■					■		■
City of Fort Lauderdale, FL	220,000	■				■					■		■
Erie County Water Authority, NY	920,000	■				■			■		■	■	■
Chandler, AZ	260,000	■	■	■		■	■	■	■	■	■	■	■
Goodyear, AZ	102,000	■	■	■				■		■	■		■

Relevant Projects

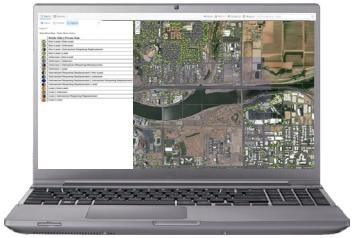
Team's Record of Past Performance



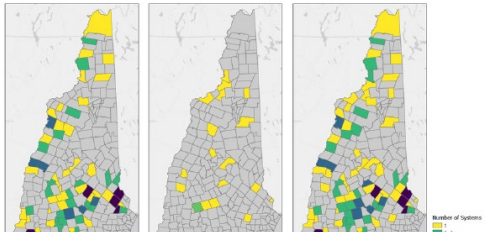
LADWP



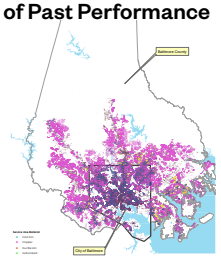
Sweetwater Authority



Tempe



New Hampshire



Baltimore

Client/Project	Description	Dates/Costs	Scope of Work	Key Staff	Reference
LADWP, CA LSL Historical Use and Predictive Modeling for Customer-Owned Service Lines	Hazen is developing LADWP's LCRR Compliance Plan that includes, but not limited to, a comprehensive review of historical LSL use in the service area and machine-learning predictive modeling to reduce the quantity of unknown service lines, an LSLI database, and funding strategy.	01/2023 - Ongoing **$290K**	✓ Developed Summary of LSL Use History ✓ Predictive Modeling Tool ✓ LSL Inventory Database ✓ Funding Applications	Nicole Blute Becki Rosenfeldt Cayla Cook Stephanie Botha Arthur Moncrieffe} Malia Turner Megan Watt Lisa Hulette Jared Eichmiller	**Oluwaseun Ogbeni** *Environmental Specialist/ Project Managerr* *LADWP* 111 N. Hope Street Los Angeles, CA 90012 (213) 367-3307 *oluwaseun.ogbeni@ladwp.com*
Sweetwater Authority, CA LCRR Compliance Implementation	Hazen is developing an LCRR Compliance Program for Sweetwater through the creation of an LSLI, a service line identification action plan, a compliance sampling program, and the identification sites and sampling protocols for testing of school and childcare facilities.	07/2022 - Ongoing **$127K**	✓ Geospatial LSLI using ESRI ArcGIS ✓ Evaluation of Historical Records ✓ Service Line Identification Action Plan Sampling Program ✓ School and Childcare Facilities Testing	Nicole Blute Becki Rosenfeldt Cayla Cook Stephanie Botha Arthur Moncrieffe Megan Watt Lisa Hulette	**Justin Brazil** *Director of Water Quality* *Sweetwater Authority* 505 Garrett Avenue Chula Vista, CA 91910 (619) 409-6802 *jbrazil@sweetwater.org*
City of Tempe, AZ LCRR Compliance Implementation	Hazen is working on Tempe's LCRR Compliance Implementation project, including developing an LSLI, regulatory coordination, establishing an LSL identification and replacement plan, updating the City's sampling program, and developing a streamlined communication plan.	02/2022 - Ongoing **$76K (Phase 1)**	✓ Interactive GIS Map ✓ Regulatory Coordination ✓ Field Verification ✓ Phased LSL Replacement, Sampling, and Communications Plan	Becki Rosenfeldt Cayla Cook Roger Arnold Emma Ressler Lisa Hulette Annisa Rafeh	**Jeremy Mikus** *Env. Services Manager* *City of Tempe* 1525 Baseline Road Tempe, AZ 85283 (480) 350-2852 *jeremy_mikus@tempe.gov*
New Hampshire Department of Environmental Services, NH LSL Inventory, Sampling Plan, and Replacement Plan	Hazen will aid over 200 Small Community Water public water systems in New Hampshire in compliance with the LCRR. This work includes the development of a community HUB site as a central location to manage LSLIs, training materials, data uploads, and recorded meetings. Work also includes preparation of Sampling Site Plans and the development of LSL Replacement Plans.	04/2023 - Ongoing **$2.9M**	✓ LSL Inventory Database ✓ Service Line Identification Action Plan ✓ Inventory Dashboard ✓ Training videos & webinars ✓ Sample Plan Development ✓ Customer Outreach ✓ Replacement Plans	Becki Rosenfeldt Roger Arnold Anissa Rafeh	**Jennifer Mates** *Drinking Water & Groundwater Bureau* 29 Hazen Drive Concord, NH 03302 (603) 559-0028 *Jennifer.S.Mates@des.nh.gov*
Baltimore City & County, MD Program Management. Support for LCRR Compliance	Hazen is assisting the City and County in proactively preparing for compliance with the LCRR. The project included a full, comprehensive compliance program including service line replacement, advanced data analytics, and machine learning to streamline identification and replacement efforts.	11/2022 - Ongoing **$250K**	✓ LSL Inventory Finalization ✓ LSL Replacement ✓ Sample Plan Development ✓ Customer Outreach ✓ Compliance-Support Services	Becki Rosenfeldt Malisa Turner	**Hernán Guadalupe** *Engineer II, Baltimore DPW* 200 Holliday Street, 600 Baltimore, MD 21202 (410) 396-8189 *hernan.guadalupe@baltimorecity.gov*

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Section 4

Cost Control and Schedule

Section No. 4

Cost Control and Schedule

We understand schedule delivery is of critical importance to ensure LCRR compliance. As with other facets of project management, having a comprehensive and credible Work Breakdown Structure (WBS), schedule baseline, and budget baseline will allow Hazen to effectively coordinate activities of the team to move the project forward.



Hazen's Deltek Vision accounting system provides real-time monitoring of work hour usage and costs to track total expenditures for tasks.

Hazen will use the following tools and strategies tp deliver this project on schedule and within budget:

- MS Project: Establish critical path and communicate progress
- Deltek Vision: Track project costs in real time for clarity on budget performance
- Risk Register: Develop and updaterisk register regularly to mitigate project risks
- Decision Log: Track project decisions to provide clarity on path forward
- Regular Project Manager Check-Ins: Track hot scope items

The following schedule provides a breakdown of tasks outlined within the Hazen Work Plan, including key milestones driving the project timeline.

Year	2023			2024											
Month	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
APPROVAL OF PROJECT	◆														
CONTINUOUS TASK(S)															
• RFP Task 1: Project Administration and Progress Reporting															
• RFP Task 4-S: *Optional Task* - LCRR Funding Assessment / Application / Implementation															
PHASE 1															
• RFP Task 2: Assistance with Data Gathering, Records Review, and Historical Code Review															
• RFP Task 3: Develop Service Line Inventory Database and Initial Inventory															
• RFP Task 4: Develop a DDW Approved Approach for Alternative Material Verification Methods															
• RFP Task 5: Apply DDW Approved Alternative Verification Methods															
• RFP Task 6: Assistance with Data Analysis															
• RFP Task 1-S: *Optional Task* - Integrate Service Line Inventory into Agency Asset Management System															
PHASE 2															
• RFP Task 7: Customer Communications															
• RFP Task 8: Develop and Implement Private Property Owner Self-Verification															
• RFP Task 10: Manage (Field) Inspections / Test Pitting / Meter Inspections															
• RFP Task 11: Provide Field Inspection Personnel to Assist with Physical Visual Verification															
PHASE 3															
• RFP Task 2S: *Optional Task* - School / Children Facility Sample Site Selection and SOP															
• RFP Task 3S: *Optional Task* - Compliance Site Selection and SOP															
• RFP Task 9: Develop Lead Service Line Replacement Plan															
• RFP Task 12: Population of DDW Inventory Template and Service Line Inventory Submission													◆		



Section 5

Budget Summary Proposal

Section No. 5

Budget Summary Proposal

In accordance with the requirements of the RFP, this submittal includes the budget summary information in the format requested. In addition, tables presenting the breakdown of the fee by task, project team members, subcontractors, and other direct costs.

Cost Per Category of Service

Category	Level of Effort		Cost Savings (Per Agency) for 12+ Agency Agreements
1. Project Administration and Progress Reporting (Required Task for all Agencies)	$51,780	High	40%
	$39,950	Med	
	$26,830	Low	
2. Assistance with Data Gathering, Records Review, and Historical Code Review	$31,000	High	20%
	$22,475	Med	
	$13,950	Low	
3. Develop Lead Service Line Inventory Database and Initial Inventory	$51,410	High	20%
	$36,510	Med	
	$21,610	Low	
4. Develop Approach for Alternative Material Verification Methods and submit to Division of Drinking Water (DDW) for Approval	$40,350	High	25%
	$26,900	Med	
	$16,640	Low	
5. Apply Division of Drinking Water (DDW) Approved Alternative Verification Methods	$9,590	High	0%
	$7,695	Med	
	$5,800	Low	
6. Assistance with Data Analysis	$9,640	High	10%
	$8,060	Med	
	$6,480	Low	
7. Customer Communications	$14,000	High	40%
	$11,440	Med	
	$8,880	Low	
8. Develop and Implement Private Property Owner Self-Verifications	$46,770	High	30%
	$38,980	Med	
	$31,190	Low	
9. Develop Lead Service Line Replacement Plan	$36,020	High	50%
	$36,020	Med	
	$36,020	Low	
10. Manage (Field) Inspections/Test Pitting/Meter Inspections	$76,630	High	25%
	$63,840	Med	
	$51,050	Low	

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Cost Per Category of Service

Category	Level of Effort		Cost Savings (Per Agency) for 12+ Agency Agreements
11. Provide field inspection personnel to assist with physical visual verifications	-	High	0%
	-	Med	
	-	Low	
12. Population of DDW Inventory Template and Service Line Inventory Submission	$4,870	High	0%
	$4,870	Med	
	$4,870	Low	

Additional Services	
1. Integrate Service Line Inventory into Agency Asset Management System	Separate Agreement
2. School/Childcare Facility Sample Site Selection and SOP	Separate Agreement
3. Compliance Site Selection and SOP	Separate Agreement
4. Funding	Separate Agreement

Level of Effort Assumptions

Task 1: Project Administration and Progress Reporting - Level of Effort Considerations:

- Low level of effort: 3 x MWDOC & Water Agencies Group (collective) meetings (1 x kick-off, 2 x progress), and 3 x individual Water Agency/Hazen only meetings (1x level of effort agreement, 1 x institutional knowledge transfer, and 1 x final SLI preparation).
- Medium level of effort: 6 x individual meetings: 1 x kick-off, 1x level of effort agreement, 2 x progress, 1 x institutional knowledge transfer, and 1 x final SLI preparation.
- High level of effort: 12 x individual meetings: 1 x kick-off, 1x level of effort agreement, 6 x progress, 1 x institutional knowledge transfer, 1 x final SLI preparation, 1 x meeting to discuss Task 2 outcomes, 1 x meeting to discuss outcomes of Task 4.

Task 2: Assistance with Data Gathering, Records Review, and Historical Code Review - Level of Effort Considerations:

- Low level of effort: 20 records
- Medium level of effort: 200 records
- High level of effort: 300 records

Task 3: Develop Lead Service Line Inventory Database and Initial Inventory - Level of Effort Considerations:

- Low level of effort: No. of Service Connections = 1-20,000, GIS data available
- Medium level of effort: No. of Service Connections = 20,001-40,000, GIS data available
- High level of effort: No. of Service Connections = 40,001+, GIS data not available

Task 4: Develop Approach for Alternative Material Verification Methods and Submit to Division of Drinking Water (DDW) for Approval - Level of Effort Considerations:

- Low level of effort: Geospatial Statistical Analysis
- Medium level of effort: Geospatial Statistical Analysis
- High level of effort: Predictive Model

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Task 5: Apply Division of Drinking Water (DDW) Approved Alternative Verification Methods - Level of Effort Considerations:

- All levels of effort equivalent.

Task 6: Assistance with Data Analysis - Level of Effort Considerations:

- Low level of effort: No. of Service Connections = 1-20,000
- Medium level of effort: No. of Service Connections = 20,001-40,000
- High level of effort: No. of Service Connections = 40,001+

Task 7: Customer Communication - Level of Effort Considerations:

- Low level of effort: No. of Service Connections = 1-20,000
- Medium level of effort: No. of Service Connections = 20,001-40,000
- High level of effort: No. of Service Connections = 40,001+

Task 8: Develop and Implement Private Property Owner Self-Verifications - Level of Effort Considerations:

- Low level of effort: No. of Service Connections = 1-20,000
- Medium level of effort: No. of Service Connections = 20,001-40,000
- High level of effort: No. of Service Connections = 40,001+

Task 9: Develop Lead Service Line Replacement Plan - Level of Effort Considerations:

- Low level of effort: No. of Service Connections = 1-20,000
- Medium level of effort: No. of Service Connections = 20,001-40,000
- High level of effort: No. of Service Connections = 40,001+

Task 10: Manage (Field) Inspections/Test Pitting/Meter Inspections - Level of Effort Considerations:

- Low level of effort: No. of Service Connections = 1-20,000
- Medium level of effort: No. of Service Connections = 20,001-40,000
- High level of effort: No. of Service Connections = 40,001+

Task 11: Provide Field Inspection Personnel to Assist with Physical Visual Verification - Level of Effort Considerations:

- No requirement for level of effort considerations, as only an hourly rate was requested in the RFP. However, two rates are proposed for consideration. Field person, truck, and hand tools = $95/hr., and field person, truck, and vac truck = $135/hr. (includes vac truck).

Task 12: Population of DDW Inventory Template and Service Line Inventory Submission - Level of Effort Considerations:

- All levels of effort equivalent.

Low Level of Effort Estimate

	Program Director	Program Manager	Technical Advisor	Project Engineer	GIS/IT	Data Analyst	Assistant Engineer II	Assistant Engineer I	Hazen			
									Labor Hours	"Labor Cost"	ODCs	Subtotal
	$385	$385	$355	$250	$175	$200	$170	$150				
RFP Task 1: Project Administration and Progress Reporting	4	24	16	20	14	0	10	32	120	$30,410	$-	$30,410
RFP Task 2: Assistance with Data Gathering, Records Review, and Historical Code Review	0	2	2	10	10	6	16	32	78	$14,450	$-	$14,450
RFP Task 3: Develop Lead Service Line Inventory Database and Initial Inventory	0	4	4	14	12	6	24	60	124	$22,840	$-	$22,840
RFP Task 4: Develop Approach for Alternative Material Verification Methods and Submit to DDW for Approval	0	2	8	12	8	2	24	28	84	$16,690	$-	$16,690
RFP Task 5: Apply Division of DDW Approved Alternative Verification Methods	0	0	0	4	0	0	12	12	28	$4,840	$-	$4,840
RFP Task 6: Assistance with Data Analysis	0	0	2	10	0	0	0	12	24	$5,010	$-	$5,010
RFP Task 7: Customer Communications	0	0	8	16	0	0	0	20	44	$9,840	$-	$9,840
RFP Task 8: Develop and Implement Private Property Owner Self-Verification	0	6	4	20	28	0	32	92	182	$32,870	$-	$32,870
RFP 9: Develop LSL Replacement Plan	0	16	4	40	0	0	40	110	210	$40,880	$-	$40,880
RFP Task 10: Manage (Field) Inspections/ Test Pitting/ Meter Inspections	0	12	4	28	32	0	112	112	300	$54,480	$-	$54,480
RFP Task 11: Provide Field Inspection Personnel to Assist with Physical Visual Verifications (Hourly Rate)	0	0	0	0	0	0	0	0	0	$-	$-	$-
RFP Task 12: Population of DDW Inventory Template and SLI Submission	0	0	2	4	10	0	0	0	16	$3,460	$-	$3,460
TOTAL FEE (LOW LEVEL OF EFFORT)	**4**	**66**	**54**	**178**	**114**	**14**	**270**	**510**	**1210**	**$235,770**	**$-**	**$235,770**

Medium Level of Effort Estimate

	Program Director	Program Manager	Technical Advisor	Project Engineer	GIS/IT	Data Analyst	Assistant Engineer II	Assistant Engineer I	Hazen			
									Labor Hours	"Labor Cost"	ODCs	Subtotal
	$385	$385	$355	$250	$175	$200	$170	$150				
RFP Task 1: Project Administration and Progress Reporting	6	36	24	30	20	0	16	48	180	$45,610	$-	$45,610
RFP Task 2: Assistance with Data Gathering, Records Review, and Historical Code Review	0	4	4	16	15	10	24	50	123	$23,165	$-	$23,165
RFP Task 3: Develop Lead Service Line Inventory Database and Initial Inventory	0	8	8	24	20	10	40	100	210	$39,220	$-	$39,220
RFP Task 4: Develop Approach for Alternative Material Verification Methods and Submit to DDW for Approval	0	4	12	20	12	4	40	48	140	$27,700	$-	$27,700
RFP Task 5: Apply Division of DDW Approved Alternative Verification Methods	0	1	1	4	0	0	16	16	38	$6,860	$-	$6,860
RFP Task 6: Assistance with Data Analysis	0	0	2	12	0	0	0	16	30	$6,110	$-	$6,110
RFP Task 7: Customer Communications	0	0	10	20	0	0	0	24	54	$12,150	$-	$12,150
RFP Task 8: Develop and Implement Private Property Owner Self-Verification	0	8	4	24	36	0	40	115	227	$40,850	$-	$40,850
RFP 9: Develop LSL Replacement Plan	0	16	4	40	0	0	40	110	210	$40,880	$-	$40,880
RFP Task 10: Manage (Field) Inspections/ Test Pitting/ Meter Inspections	0	16	6	36	40	0	140	140	378	$69,090	$-	$69,090
RFP Task 11: Provide Field Inspection Personnel to Assist with Physical Visual Verifications (Hourly Rate)	0	0	0	0	0	0	0	0	0	$-	$-	$-
RFP Task 12: Population of DDW Inventory Template and SLI Submission	0	0	2	4	10	0	0	0	16	$3,460	$-	$3,460
TOTAL FEE (MEDIUM LEVEL OF EFFORT)	**6**	**93**	**77**	**230**	**153**	**24**	**356**	**667**	**1606**	**$315,095**	**$-**	**$315,095**

High Level of Effort Estimate

	Program Director	Program Manager	Technical Advisor	Project Engineer	GIS/IT	Data Analyst	Assistant Engineer II	Assistant Engineer I	Hazen			
									Labor Hours	"Labor Cost"	ODCs	Subtotal
	$385	$385	$355	$250	$175	$200	$170	$150				
RFP Task 1: Project Administration and Progress Reporting	8	46	32	40	26	0	20	62	234	$59,400	$-	$59,400
RFP Task 2: Assistance with Data Gathering, Records Review, and Historical Code Review	0	6	6	22	20	14	32	68	168	$31,880	$-	$31,880
RFP Task 3: Develop Lead Service Line Inventory Database and Initial Inventory	0	12	12	34	28	14	56	140	296	$55,600	$-	$55,600
RFP Task 4: Develop Approach for Alternative Material Verification Methods and Submit to DDW for Approval	0	6	18	30	18	6	60	72	210	$41,550	$-	$41,550
RFP Task 5: Apply Division of DDW Approved Alternative Verification Methods	0	2	2	4	0	0	20	20	48	$8,880	$-	$8,880
RFP Task 6: Assistance with Data Analysis	0	0	2	14	0	0	0	20	36	$7,210	$-	$7,210
RFP Task 7: Customer Communications	0	0	12	24	0	0	0	28	64	$14,460	$-	$14,460
RFP Task 8: Develop and Implement Private Property Owner Self-Verification	0	10	4	28	44	0	48	138	272	$48,830	$-	$48,830
RFP 9: Develop LSL Replacement Plan	0	16	4	40	0	0	40	110	210	$40,880	$-	$40,880
RFP Task 10: Manage (Field) Inspections/ Test Pitting/ Meter Inspections	0	20	8	44	48	0	168	168	456	$83,700	$-	$83,700
RFP Task 11: Provide Field Inspection Personnel to Assist with Physical Visual Verifications (Hourly Rate)	0	0	0	0	0	0	0	0	0	$-	$-	$-
RFP Task 12: Population of DDW Inventory Template and SLI Submission	0	0	2	4	10	0	0	0	16	$3,460	$-	$3,460
TOTAL FEE (HIGH LEVEL OF EFFORT)	**8**	**118**	**102**	**284**	**194**	**34**	**444**	**826**	**2010**	**$395,850**	**$-**	**$395,850**



Section 6

Time and Materials Labor Rate Schedule

Section No. 6

Time and Materials Labor Rate Schedule

A table of hourly billing rates for Hazen personnel by title is provided below as required per the RFP. The billing rates are for the 2023-2024 billing year, starting July 1, 2023. Not all labor categories shown below will be used on this project.

Hazen Title	Hourly Rate
Vice President	$325
Assoc Vice President	$315
Sr Associate 2	$300
Sr Associate	$290
Associate 2	$275
Associate	$250
Sr Principal Engineer 2	$240
Sr Principal Engineer	$220
Principal Engineer 2	$200
Engineer/Principal Engineer	$185
Assistant Engineer 2	$170
Assistant Engineer	$150
Sr. CAD Designer/GIS	$175
CAD Designer/GIS	$145
Technician	$130
Sr Administrator	$140
Administrator	$120

If required, Hazen will utilize the General Services Administration per diem rates for Orange County, and mileage reimbursement rates published by the Internal Revenue Service.



Appendix A

Resumes



Nicole Blute, PhD, PE

Program Manager

Dr. Blute will lead the project with over 20 years of lead and copper rule and corrosion control experience. She is a skilled hands-on PM on complex projects with tight schedules, leveraging her team's deep experience to achieve different agency needs.

Education

PhD, Environmental Engineering, Massachusetts Institute of Technology

BS, Environmental Science, University of Rochester, NY, 1996

BA, Chemistry, University of Rochester, NY

Certification/License

Professional Engineer

Areas of Expertise

- Corrosion control and stabilization
- Project management
- Groundwater treatment
- Decision analysis
- Advanced treatment
- Source water integration
- Distribution system water quality
- Bench, pilot, and demonstration testing

Professional Activities

American Water Works Association

- Research Division Trustee
- Inorganic Contaminants Committee Chair

Society of Women Engineers

California Nevada AWWA

Recycled Water Committee Secretary

Lead and Copper Rule Revisions, Los Angeles Department of Water and Power, Los Angeles CA

Dr. Blute is the Project Manager for LADWP's evaluation of historical lead service line use and code reviews, development of an LSL inventory in GIS, use of alternative verification methods (predictive modeling and geospatial statistical analysis), funding assistance, and communications with DDW.

Lead and Copper Rule Revisions, Sweetwater Authority, San Diego, CA

Dr. Blute was a Technical Advisor on Sweetwater Authority's LCRR Compliance Program, involving creation of an LSL Inventory, LSL identification action plan, compliance sampling plan, and development of sampling protocols for schools and childcare facilities.

Lead and Copper Rule Compliance, California Water Service Company, San Jose, CA

Dr. Blute was the Technical Advisor on a series of 3 projects for Cal Water that developed prequalified pools of tiered customers for LCR sampling at 25 districts. The project involved providing regulatory guidance, developing educational and training materials, and developing cost assessments of project expansion to Cal Water's remaining districts.

Lead and Copper Rule Compliance, City of La Verne, La Verne, CA

Dr. Blute was the Project Manager who led a study of factors causing La Verne to exceed the Lead Action Level. She advised utility staff in water quality testing (field and laboratory), performed modeling exercises of corrosivity, provided recommendations, and worked with staff to implement operations. The project successfully resulted in subsequent sampling round below the Action Level.

Corrosion Control Testing of Alternate Water Supplies, Metropolitan Water District of Southern California

Dr. Blute was the Principal Investigator and Project Manager on a WRF project to evaluate corrosion control strategies for successful introduction of new water supplies (advanced treated water and desalinated water) into distribution systems. Pipe loops (iron, copper with lead solder, and brass) were used to evaluate corrosion mitigation strategies.

Hazen



Becki Rosenfeldt, PE

Program Advisor/Regulatory Communication

Becki has extensive experience guiding many of Hazen's clients to LCRR compliance.

Serves as a Program Manger, QA/QC, and various technical expert roles for the development of LSLIs including the design and implementation of machine learning models. Her nationally recognized expertise includes providing guidance to regulatory agencies and co-presenting with DDW on the LCRR.

Education

MS, Environmental Engineering, Virginia Tech

BS, Civil Engineering, Bucknell University

Certification/License

Professional Engineer

Areas of Expertise

- Lead and Copper Rule
- Lead and Copper Rule Revisions
- Corrosion control
- Lead service line identification and replacement

Professional Activities

American Water Works

LCRR Compliance, LADWP, Los Angeles, CA
Program Advisor. Completed an evaluation of historical LSL use and code reviews and developed an LSLI in GIS. Assisted in material verification and replacement efforts, alternative verification methods (predictive modeling and geospatial statistical analysis), and developed a communications plan.

LCRR Compliance, Sweetwater Authority, San Diego, CA
Program Manager. Developed the Authority's LCRR Compliance Program, including the development of an LSLI, LSL identification action plan, compliance sampling plan, and protocols LCRR compliance sampling. She works closely with DDW to develop a cost-effective material verification strategy using statistical analysis and geospatial interpolation.

LSL Inventory, Sampling Plan, and Replacement Plan, New Hampshire Department of Environmental Services, NH
Program Advisor. Assisting over 200 Small and Medium public water systems in compliance with the LCRR. She is also assisting with the development of a community website and data HUB to serve as a central location to manage compliance programs, LSLI, and customer outreach materials. Work also includes preparation of Sampling Site and LSL Replacement Plans.

Program Management Support for LCRR Compliance, Baltimore City & Baltimore County, MD
Technical Advisor. Through a combination of LSLI finalization, LSL replacement, sample plan development, customer outreach and compliance support services, the City and County proactively prepare for compliance with the LCRR. She is supporting the development of advanced GIS analytics, etc.

LCRR Compliance Program, City of Tempe, AZ
Program Advisor and Technical Expert. Leading a comprehensive implementation that includes LSLI, sampling, and communications program development A centralized dashboard was developed to monitor program progress and track communications, service line identification, and replacement efforts.

Hazen



Cayla Cook, PE

Project Engineer

Cayla Cook has served as the Project Engineer, Task Manager, and Assistant Project Manager on several key LCRR efforts including LSL Inventories within Arizona and California lending to a robust background and knowledge of the unique challenges utilities face associated with the LCRR. This experience lends to a Deputy Project Manager that has successfully completed multiple similar efforts and is ready to hit the ground running.

Education

MS, Civil and Environmental Engineering, Arizona State University

BS, Civil Engineering, Mississippi State University

Certification/License

Professional Engineer

Areas of Expertise

- Lead and copper regulations
- Water quality and compliance
- Emerging contaminants
- Water, wastewater, and reclaimed water planning

Professional Activities

Water Environment Federation

- Microplastics Task Force Co-Chair

AZ Water Research Committee

California Association of Sanitation Agencies

- Microplastics Subgroup
- Ad Hoc Expert Panel

Lead and Copper Rule Revisions (LCRR) Evaluation, Sweetwater Authority, CA

Task Manager. Hazen is leading Phase 1 of the LCRR Compliance Program to develop an LCRR Service Line Identification Action Plan and LSL Inventory framework. Utilizing the latest EPA Guidance, Hazen will prioritize field verification sites and align various areas of the compliance program such as funding and sample site selection to streamline the process for the Authority.

Lead Service Line History and Predictive Model, Los Angeles Department of Water and Power, CA

Deputy Project Manager. Hazen led the development of DWP's LSL Inventory framework and Predictive Model including the utility-side and customer-side of over 700,000 service lines. Through collaboration with multiple departments including the Distribution System and Water Quality departments, Hazen built consensus on the Department of Drinking Water (DDW) approved methodologies' application with industry-leading technologies approaches for minimizing the quantity of sites for field verification and providing a unique lead likelihood status for each individual service line.

Lead and Copper Rule Revisions (LCRR) Compliance Implementation, Tempe, AZ

Assistant Project Manager. Hazen is developing the City's LSL inventory, which will serve as the foundation for the remaining LCRR compliance requirements. The Hazen team is utilizing a variety of industry-leading approaches to complete a robust, cost-efficient service line inventory including a mobile app for rapidly collecting and storing service line data in the field and an online customer survey for service line material identification. In addition to developing the inventory framework, Hazen will establish and coordinate a Field Verification Plan for amending the inventory in real time.

Hazen



Stephanie Botha

Groundwater Data Evaluation

Ms. Botha has 16 years professional experience working in planning, approvals, permitting, regulatory compliance, and project management on behalf of private and public clients across a broad range of industry including infrastructure, environment, water, contaminated land, decommissioning and restoration, transportation, oil and gas, waste management, marine geoscience, and mining.

Education

M.Sc., Hydrogeology, University of Birmingham, U.K.

B.Sc., Geology, University College London, U.K.

Areas of Expertise

- Hydrogeological investigation and water quality characterization
- Permitting of extremely impaired sources for direct potable use (DDW 97-005 Policy)
- Development and management of groundwater monitoring programs
- Environmental approvals
- Remedial investigation

Technical Publications:

EnerGeo Alliance. 2022. Guidance for Estimating and Reporting Greenhouse Gas (GHG) Emissions - Marine Geoscience Survey Activities. August 9.

Lead and Copper Rule Revisions, Los Angeles Department of Water and Power, Los Angeles CA

Ms. Botha is a Technical Advisor on LADWP's evaluation of historical lead service line use and code reviews, development of an LSL inventory in GIS, and use of alternative verification methods (predictive modeling and geospatial statistical analysis).

Lead and Copper Rule Revisions, Sweetwater Authority, San Diego, CA

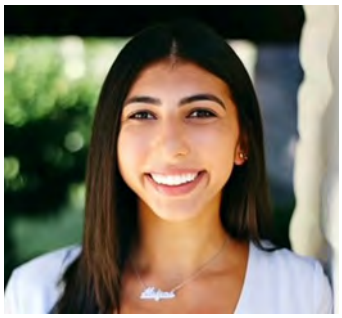
Ms. Botha is a Technical Advisor on Sweetwater Authority's LCRR Compliance Program, providing input on data management for the lead service line inventory.

San Fernando Basin (SFB) Groundwater Remediation Project – Division of Drinking Water (DDW) 97-005 Permitting, Los Angeles Department of Water & Power (LADWP), Los Angeles, CA

Ms. Botha is the Technical Lead and Task Manager for delivering various components required for the application to permit the use of an extremely impaired source for domestic use for three major LADWP well fields in the SFB. She is responsible for ensuring the deliverables required for the 97-005 permit application comply with the updated DDW 97-005 Process Memo which included the addition of new evaluations, such as the MCL-equivalent methodology developed by DDW to assess the cumulative risk posed by multiple contaminants.

Water Quality Evaluation in Master Planning, Santa Clarita Valley Water Agency

Ms. Botha is leading the team in evaluating over 800,000 water quality records to develop a master plan for SCVWA. The effort included working with our GIS resources to build the database, dashboard, maps, and develop data interpretations for planning.



Melene Agakanian, EIT

Records Research and Gap Analysis

Ms. Agakanian is an Assistant Engineer with Hazen. She has experience in recycled and purified water, water quality analysis and supply management, and drinking water treatment, with a foundation in Civil and Environmental Engineering. She has a strong attention to detail and organization that will be critical to the records research for this project.

Education

M.S., Civil/Environmental Engineering, San Jose State University, San Jose, CA

B.S., Civil Engineering, Santa Clara University, Santa Clara, CA

Certification/License

Engineer-in-Training

Areas of Expertise

- Drinking Water Treatment
- Recycled & Purified Water
- Water Quality Analysis & Supply Management

Professional Affiliations

ASCE

Database Management, Santa Clara Valley Water District (Valley Water), Santa Clara, CA

Water Tracker: Led efforts to develop a user-friendly, comprehensive water resources database used by all units to track water use throughout Santa Clara County. Responsible for importing monthly recycled water use from five major recycled water producers in the County into this larger database.

ROCM Sampling Data & Analysis: Responsible for importing monthly sampling data from multiple labs into the ROCM MS Access database and ensuring all data was in proper format. Provided analysis of data, including graphs and trendlines, when requested.

Owner's Agent for Hyperion Advanced Water Treatment, Los Angeles Department of Water and Power, Los Angeles, CA

Assistant Process Engineer. Melene has provided treatment sizing, capital and life cycle costs, and site layouts to LADWP in the evaluation of treatment options for the Hyperion Advanced Water Treatment Facility. She has helped prepare technical memorandums summarizing the design information and providing recommendations on implementation of the design. Melene is also part of the team providing support to LADWP on the Donald C. Tillman Advanced Water Treatment Facility Project in conjunction with Los Angeles Sanitation.

Eastside Water Treatment Facility Expansion Design, City of Chino, Chino, CA

Provide support when needed for review and response of construction submittals and request for information documents for a 3,500-gpm treatment expansion for the City of Chino at their Eastside Facility. Construction includes installation of new GAC vessels for 1,2,3-TCP treatment and a new Ion Exchange system for nitrate treatment, pipelines, buildings, and control systems.



Cole Graham

Service Verification Program

Mr. Graham is a recent graduate with a background in dual disciplines of environmental chemistry and environmental engineering. He is now an Assistant Engineer in Hazen's Wastewater Group.

Education

MS, Environmental Engineering, Arizona State University

BS, Chemistry (Environmental), Arizona State University

Areas of Expertise

- Environmental Chemistry
- Water Treatment Via Anion Exchange Resins
- PFAS Removal Strategies

Lead and Copper Rule Revisions Compliance Implementation, Tempe, AZ

Assistant Engineer. Hazen is developing the City's LSL inventory, which will serve as the foundation for the remaining LCRR compliance requirements. The Hazen team is utilizing a variety of industry-leading approaches to complete a robust, cost-efficient service line inventory including a mobile app for rapidly collecting and storing service line data in the field and an online customer survey for service line material identification. In addition to developing the inventory framework, Hazen will establish and coordinate a Field Verification Plan for amending the inventory in real time. Following the development of the service line inventory, Hazen will prepare the LSL Replacement Plan including procedures for flushing service lines and premise plumbing, prioritization strategies, and the replacement protocols. Hazen will further support the city through legal strategies and funding sources for full service line replacement and integrate with the City's currently planned Capital Improvement Program while developing the communication tools and a sampling plan.

Integrated Water Resources Master Plan, Town of Gilbert, AZ

Assistant Engineer. Updated the Town's Integrated Water Resources Master Plan, which comprised of a water resources portfolio, existing and buildout scenarios of water, wastewater, and reclaimed water system modeling, water quality, water age analyses and CIP development. Worked specifically on dashboard implementation.

Experience Prior to Hazen

ASU School of Sustainable Engineering and the Built Environment, Tempe, AZ

Graduate Researcher. Laboratory chemist and engineer developing new methods to regenerate spent anion exchange resin with novel evacuant solutions.



Jared Eichmiller

Service Line Inventory/GIS

Mr. Eichmiller serves as Hazen's GIS Analyst in the Irvine Office. He has over 2 years of experience in helping local governments and organizations achieve their infrastructure and assessment goals through using GIS tools. He is experienced in cartography for print along with developing web applications, dashboards, and story maps. Mr. Eichmiller is also skilled in developing field collection tools through Survey123 to conduct field assessments.

Project Role

Data Management and Planning

GIS Mapping and Analysis

Investigations and Condition Assessment

Education

BA, Geography, Indiana University

Areas of Expertise

- Geographic Information Systems
- Asset Management

Lead and Copper Rule Revisions, Los Angeles Department of Water and Power, Los Angeles CA

Mr. Eichmiller is GIS Analyst for LADWP's evaluation of historical lead service line use and code reviews, development of an LSL inventory in GIS, use of alternative verification methods (predictive modeling and geospatial statistical analysis), funding assistance, and communications with DDW.

NapaSan Master Plan, Napa CA

GIS Analyst. Mr. Eichmiller is utilizing StoryMaps to create a visual, electronic submittal of Napa Sanitation's Capital Improvement Plan. as part of the Master Plan Project. The District selected Hazen to develop the Soscol Water Recycling Facility (SWRF) to provide NapaSan with strategic planning guidance and in-depth analysis of key focus areas. NapaSan intends to produce an actionable and strategic master plan that supports decision making over the next five-to-ten years while maintaining a 20-year planning horizon. the master Plan included key areas such as condition assessment, nutrients, biosolids, recycled water, capacity analysis.The Master Plan also includes an evaluation of vulnerabilities as well as susceptibility to climate change factors such as flood, wildfire risk and public safety power shutoffs.

Trabuco Canyon Water District Master Plan and Condition Assessment, Trabuco Canyon, CA

GIS Analyst. Mr. Eichmiller developed deliverables for this project which involves field and desktop condition assessment data for several lift stations, pump stations, water and wastewater treatment plants.



Max Sugarman

Statistical Learning/Machine Learning

Mr. Sugarman serves as a Data and GIS Analyst in Hazen and Sawyer's Los Angeles Office. He has over 10 years of experience working in the civic, environmental, scientific, GIS, and education areas. Proficient in Python, GIS software, and Power BI visualization tools, he excels in delivering accurate technical research and analysis. He has worked on applied spatial machine projects to address homelessness in Los Angeles County, support mapping for autonomous vehicles, and develop analysis and asset management dashboards for local water agencies.

Education

M.S., Geographic Information Science, California State University Long Beach, Long Beach, CA

M.S., Science Education, Fordham University, New York, NY

B.S., Environmental Science and Resource Management, University of Washington, Seattle, WA

Areas of Expertise

- GIS
- Data Analysis

Professional Activities

URISA (Urban and Regional Information Systems Association)

Master Plan, Santa Clarity Valley Water, Santa Clarita, CA
Mr. Sugarman was a GIS and Data Analyst for the Santa Clarita Valley's master plan. The project involved the development of a maps, spatial analyses, and Power BI dashboards for asset management and water quality within the master plan. He supported the cleaning and processing of asset data, the mapping of assets and forced mains, the spatial analysis of pipelines in InfoAssetPlanner and ArcGIS Pro and developed a Power BI Dashboard for asset management. He also developed a custom Power BI Dashboard to visualize and summarize the water quality for the agency.

Experience Prior to Hazen

Locating Vulnerable Populations, Los Angeles County; Los Angeles, CA
Worked with Los Angeles County and Vexcel Imaging to identify encampments in high-risk disaster areas using GIS and machine learning techniques. Used Numpy, OpenCV, GDAL, Rasterio, and Matplotlib libraries in Python and Deep Learning in ArcGIS Pro to analyze aerial imagery, perform spectral analysis, and identify over 100 encampment locations. Tested model with Vexcel's Python API and ArcPy to reach a greater than 80% accuracy rate.



Tori Yokoyama, PE

Field Inspection Program

Mr. Yokoyama has extensive experience developing hydraulic models, performing hydraulic analyses, and preparing master plan reports for various public sector clients.

Education

BS, Civil Engineering, California State Polytechnic University, San Luis Obispo

Certification/License

Professional Engineer

Areas of Expertise

- Pipelines
- Pump Stations
- Reservoirs
- Master Plans
- Hydraulic Modeling

Professional Activities

CA-NV AWWA

OCWA

ASCE

Trabuco Canyon Water District Water Master Plan
Project Manager. The 2022 System-wide Master Plan Update and Condition Assessment provides comprehensive documentation, analysis, and recommendations for the water system, non-domestic water system, and sewer system including a calibrated GIS-based hydraulic model for each system. The Master Plan developed a Capital Improvement Program (CIP) that identifies the recommended projects needed to ensure that the District continues to provide safe, reliable, and efficient water, non-domestic water, and sewer service to its customers.

Leakage Reduction Project for American Water/California Energy Commission, California American Water, Los Angeles, San Diego, and Ventura, California Service Areas
Project Manager of the $1.5M project funded by California Energy Commission called "Demonstrating Innovative Leakage Reduction Strategies: Correlating Continuous Acoustic Monitoring, Satellite Imagery and Flow Sensitive Pressure Reducing Valve Systems." The project deployed multiple leak detection and leak prevention technologies in California American Water systems in Los Angeles, San Diego, and Ventura. Technologies were deployed over a 12-month duration. Tasks included coordinating field work conducted by vendors and California American operations staff, logging and maintaining field results, developing a graphical user interface to track technologies and leak reporting, working with vendors to improve technologies, and preparing a final report.

Chino Hills Water and Recycled Water Master Plan, Chino Hills, CA
Project Manager. Hazen and Sawyer completed the City's Water and Recycled Water Master Plan Update. The City's goal was to create a comprehensive updated Citywide water and recycled water master plan complete with a new GIS-based hydraulic model and mapping tools. The document and the new modeling system is a guide for planning, operating, and maintaining the City's water and recycled water systems and infrastructure. The proposed CIP evaluated the City's water and recycled water system and identified recommended projects through year 2045. Major scope elements included hydraulic model development and calibration (InfoWater), system analysis, condition assessment of high priority facilities, Urban Water Management Plan, Water Shortage Contingency Plan, Master Plan final report, and a prioritized Capital Improvement Program.

Hazen



Arthur Moncrieffe, Jr., EIT

Statistical Analysis/Machine Learning

Mr. Moncrieffe specializes in GIS geoprocessing, model building, and data analysis.

He has extensive experience in data modeling with Power BI, coding and scripting. He leveraged these skills to update an RO system data model for the Sweetwater Authority and is currently working on the development of a LSL Inventory for Sweetwater Authority, CA.

Lead and Copper Rule Revisions, Los Angeles Department of Water and Power, Los Angeles CA
Records Research & Gap Analysis and Service Line Inventory/GIS for LADWP's evaluation of historical lead service line use and code reviews, development of an LSL inventory in GIS, use of alternative verification methods (predictive modeling and geospatial statistical analysis), funding assistance, and communications with DDW.

Lead and Copper Rule Revisions, Sweetwater Authority, San Diego, CA
Service Line Inventory/GIS on Sweetwater Authority's LCRR Compliance Program, involving creation of an LSL Inventory, LSL identification action plan, compliance sampling plan, and development of sampling protocols for schools and childcare facilities.

Water Master Plan Update and GIS Conversion Project, City of Chino, Chino, San Bernardino County, CA
Assistant Engineer. Key components of this project include the creation of a GIS geodatabase of the City's potable water distribution system, preparation of a Water Master Plan Report, and completion of a Risk and Resiliency Assessment for compliance with America's Water Infrastructure Act requirements.

Facility Planning Services - Task 1 2nd Aqueduct Diversion Complex and Operations Planning Study, San Diego County Water Authority, CA
Arthur created GIS figures for final report. This included detailed site maps of the Diversion Complex, environmental figures to be used in CEQA analyses of project alternatives, site layouts delineating footprint, piping alignments, property acquisition, construction and final facility access, and construction details to facilitate detailed alternatives analyses and cost estimates.

Facility Planning Services - Task 2 First Aqueduct Bifurcations Study, San Diego County Water Authority, CA
Arthur created GIS figures of bifurcation locations, GIS site visit figures and GIS construction access figures. Arthur assist in the bifurcation rehabilitation alternatives evaluation by establishment of criteria, coordination weighting with the client, and computing weighted scores on the prioritization of bifurcation projects.

Education

MS, Environmental Engineering, University of Pittsburgh

Certification/License

Engineer-in-Training

NASSCO Certified: PACP, LACP, and MACP

Areas of Expertise

- Water/Wastewater Pipeline Design
- Sewer Rehabilitation/Asset Management
- AutoCAD
- GIS
- Primavera P6
- PowerBI
- InfoWater

Professional Activities

American Society of Civil Engineers

Water Environment Federation

Hazen



Malia Turner

Statistical Analysis/Machine Learning

Ms. Turner is a principal business analyst at Hazen. After finishing her master's degree in analytics, she is now working with the asset management group conducting data analysis and creating data visualization solutions for our clients.

Education

MS in Analytics, North Carolina State University

BS- International Economics and Spanish, University of Kentucky

Technical Publications

Turner, M. *"Future Pensions to Diminish – Bank of Spain Assessment Sparks Backlash."* U.S. Embassy Madrid, Madrid, Spain, July 2015

Turner, M., Hagan, H., Wood, R., McCarthy, B., Yong, K. *"Putin' All Your Eggs in One Basket"* An assessment of Russia's economy as a rising power. University of Kentucky, Lexington, KY, May 2016

Turner, M., Woldorff, C., Dean, A., Boozer, C. "*Raleigh Water Sewer Main Failure Prediction and Analysis."* North Carolina State University, Raleigh, NC, April 2021

Lead and Copper Rule Revisions, Los Angeles Department of Water and Power, Los Angeles CA

Ms. Turner performed Predictive Modeling for LADWP's evaluation of historical lead service line use and code reviews, development of an LSL inventory in GIS, use of alternative verification methods (predictive modeling and geospatial statistical analysis), funding assistance, and communications with DDW.

Raleigh Water Sewer Main Failure Prediction and Analysis, Raleigh, NC

Practicum Team Lead. Led a team of 3 other graduate students at the Institute for Advanced Analytics at North Carolina State University through an 8-month practicum project partnering with Raleigh Water. The project centered on 4 objectives relating to sewer pipeline assessment and predicting the condition of 1,800 miles of existing sewer pipes. The primary objective was to assign failure probabilities to all uninspected sewer mains within Raleigh Water's system based on GIS pipe attributes and sewer main inspection data. Advanced data inference algorithms were used to clean and infer missing data allowing for more accurate machine learning model predictions. Machine learning algorithms were used to identify key variables in sewer main failure. The models were also ensembled to assign predicted probabilities of sewer main failure to all existing sewer pipes. The predictive model will aid Raleigh Water in more quickly identifying failing sewer mains to prevent major disruptions to sewer service in the Raleigh area. An interactive Power BI Dashboard presents the predictive model results giving Raleigh Water the ability to view sewer pipeline metrics and inspection status.

Phase 1: Lead Service Line Replacement Plan and Inventory Assistance, Miami-Dade County Water and Sewer Department, FL

Business Analyst. Miami-Dade County is one of the largest public utilities in the United States, serving 2.3 million residents. Hazen is assisting the County with developing a Lead Service Line (LSL) Inventory and Replacement Plan. This includes the development of a service line identification strategy using a likelihood analysis, extensive collaboration with the County to develop identification criteria, and the establishment of a detailed replacement strategy.



Anissa Rafeh

Customer Communications

Ms. Rafeh is a versatile, deadline-focused communications strategist who specializes in creating and disseminating important and technical environmental information to varying audiences through a variety of digital and print channels.

Education

MA, Political Studies and Public Administration, American University of Beirut

BA, Political Science, University of Richmond

Areas of Expertise

- Campaign strategy
- Writing and editing outreach materials
- Social media strategy and content development
- Web content development

Professional Affiliations

Public Relations Society of America (PRSA) of Richmond: 2017-2022

She has led numerous outreach campaigns at the local and national level on a wide range of environmental topics, including PFAS, Lead and Copper Rule Revisions, harmful algal blooms, and updated water quality criteria, to name a few.

Lead and Copper Rule Revision Outreach, City of Tempe, AZ
Communications Lead. Coordinated with the Hazen Drinking Water team to develop outreach materials for the City of Tempe in Arizona. Outreach materials drafted and reviewed included a two-page educational handout on the health effects of lead and a step-by-step guide on how to reduce exposure. A survey on service line materials was drafted and a postcard created to send to residents explaining the survey's intent, with a QR code that leads straight to the online survey. A three-page sampling instruction handout was written for digital and print use. Worked with the graphic design team to develop a graphic of a Tempe home to facilitate service line identification as well as a graphic to help explain the sampling procedure.

Virginia PFAS Task Force, Commonwealth of Virginia, VA
Lead Public Information Officer. Primary communications lead for the task force, which consisted of the Virginia Department of Environmental Quality (DEQ), the Virginia Department of Health (VDH), and Henrico County. Communications materials included a detailed, interactive story map that pinpointed all the locations of PFAS exceedances in the state, putting the numbers in context so the general public could understand, and also included definitions of the various types of PFAS. A comprehensive PFAS webpage was published, which hosted all outreach materials, including a digital information handout, an infographic detailing the sources of PFAS, an FAQ document, and links to webinars hosted by members of the task force. Coordinated all media inquiries, drafted news releases, social media posts and email campaigns as needed or required.



Megan Watt, EIT

LSL Replacement Plan

Ms. Watt serves as an Assistant Engineer II for Hazen and Sawyer's Los Angeles Office. With 4 years of civil engineering experience, Ms. Watt has assisted in a wide range of water, wastewater, and environmental projects.

Education

B.S., Civil and Environmental Engineering, Rutgers University, New Brunswick, NJ

Certification/License

Engineer in Training

Professional Affiliations

ASCE LA YMF – Community Service Chair

Ms. Watt has experience in water supply, lead service line impacts and PFAS and Perchlorate emerging contaminants. She has been involved in major complex local, state, and federal projects. Her exceptional ArcGIS and computer skills have been critical in many engineering tasks.

Lead and Copper Rule Revisions, Los Angeles Department of Water and Power, Los Angeles CA
Ms. Watt served as Service Line Inventory/GIS for LADWP's evaluation of historical lead service line use and code reviews, development of an LSL inventory in GIS, use of alternative verification methods (predictive modeling and geospatial statistical analysis), funding assistance, and communications with DDW.

Lead and Copper Rule Revisions, Sweetwater Authority, San Diego, CA
Ms. Watt developed the Identification Action Plan and Sampling Plan for Sweetwater Authority's LCRR Compliance Program, involving creation of an LSL Inventory, LSL identification action plan, compliance sampling plan, and development of sampling protocols for schools and childcare facilities.

Lead Service Line Replacement Program, City of Newark, Newark, NJ
Ms. Watt provided engineering support for City of Newark's $185 million Lead Service Line Replacement (LSLR) Program the goal of the program is to remove 24,000+ lead service lines throughout the city, replacing them with copper pipes to ensure clean, safe and reliable drinking water at no cost to all Newark residents. Ms. Watt managed applications to the program, contacted residents, reviewed eligible homes, and conducted monthly sampling at designated homes. The original 8-year program began in May 2018 and was accelerated in September 2019 to be completed within 24 to 30 months.



Melanie Warren, PE

Sampling Plans

Ms. Warren is a registered professional engineer in Colorado and her professional background includes consulting as well as positions at public utilities in their treatment engineering and water quality departments.

With over 4 years of experience, she has held roles in program management and project engineering roles for lead service line replacement programs, lift stations, treatment plants, water resources conveyance infrastructure, and storm drain, sewer collection, and water distribution systems.

Denver Water Lead Reduction Program, Denver Water, Denver, CO
Ms. Warren served as the Project Element Manager leading the water quality element for Denver Water's 15-year, $12 million dollar per year lead service line replacement program. Her responsibilities extended across all five key components of the program, necessitating collaboration with the various teams: pH adjustment and optimized corrosion control treatment, lead service line inventory development and management, lead service line replacement, the filter program, and customer communications, outreach, and engagement.

Throughout Years 1 to 3, Ms. Warren played a fundamental role in program start-up and implementation, overseeing a $3.7 million dollar contract between Denver Water and its Subcontractors. Her expertise spans a range of areas, including developing Request for Proposal (RFP) documents for water quality distribution and analysis, establishing key element workflows and processes, using results from lead levels ininvestigative water quality samples to make informed decisions about service line materials, and ensuring effective customer communications.

As an element lead, she was responsible for drafting program contracts, change orders, and addendums, maintaining the element's budget and fee, calculating program metrics for dashboards and reporting, developing and managing water quality kit distribution schedules, developing and performing quality assurance / quality control procedures on water quality data transfer, and preparing program management plans, technical memorandum, and regulatory reports for Colorado Department of Public Health and Environment (CDPHE) and the Environmental Protection Agency (EPA).

Education

M.S., Environmental Engineering, University of Colorado Boulder, Boulder, CO

B.S., Environmental Engineering, University of Colorado Boulder, Boulder, CO

Minor in Business, University of Colorado Boulder, Boulder, CO

Certificate in Water Engineering & Management, University of Colorado Boulder, Boulder, CO

Certificate in Global Engineering, University of Colorado Boulder, Boulder, CO

Certification/License

Professional Engineer

Areas of Expertise

- Drinking Water Treatment
- Wastewater Treatment
- Lift Station Design
- Sewer and Storm Drain Collection Systems
- Water Distribution Systems
- Condition Assessment
- Services During Construction
- Database Management
- Water Quality and Corrosion Research

Professional Activities

WEF

California Water Environment Association (CWEA)

WateReuse California

AWWA

WateReuse Colorado (previous)

Engineers Without Borders



Lisa Hulette, PMP

Funding

Ms. Hulette serves as Hazen's Western Region's Funding Lead. She brings more than 20 years of experience leveraging public and private funding for multi-benefit programs and successfully fostering collaborations between diverse stakeholders.

Education

MBA, Sonoma State University, Rohnert Park, CA

BS, Environmental Science, Sonoma State University, Rohnert Park, CA

Certification/License

PMP

Areas of Expertise

- Grant development and proposal writing
- Program development
- Project Managemen

Prior to joining Hazen, Lisa was the Grant Manager for the County of Sonoma and led a team that successfully secured a $37 Million grant from FEMA's Building Resilience Infrastructure and Communities Grant Program, which was one of thirteen awarded through this funding and announced by President Biden as a model project to mitigate regional hazards in the western United States.

Sweetwater Authority, CA
State Revolving Fund Loan for Lead Service Line Inventory and Replacement

Los Angeles Department of Water and Power, CA
State Revolving Fund Loan for Lead Service Line Inventory and Replacement

Indio Water Authority, CA
Developing a funding strategy (i.e., loans and grants) to address emerging contaminants (i.e., PFAS and Chromium6)

Water Replenishment District, CA
State Revolving Fund Loan and U.S. Bureau of Reclamation Desalination Construction Grant

Union Sanitary District, CA
Developed a grant funding strategy and wrote and submitted a successful grant application to the U.S. Environmental Protection EPA's San Francisco Bay Water Quality Improvement Program for USD Enhanced Treatment and Site Upgrade project.

County of Napa, CA
Led a multi-department team at the County of Napa and in coordination with the Napa County Firewise Foundation to request $50 M from FEMA's Building Resilient Infrastructure and Communities (BRIC) grant program with the goal of reducing risk from wildfire and flooding by hardening infrastructure and reducing hazardous fuel loads.

City of Sebastopol, CA
Developing a funding strategy (i.e., loans and grants) to increase the City's water storage capacity to meet the demand of an expanding local population.

San Francisco Public Utilities Commission
Leading a team to identify appropriate and available funding opportunities for the PUC's highest priority capital projects.

Hazen



Appendix B

Professional Services Agreement Acknowledgement

Hazen has reviewed the sample copy of MWDOC's professional services agreement provided as an attachment to the RFP and is willing to accept the agreement terms and conditions, with the following modifications respectfully requested. Should Hazen be selected for this project, we would negotiate final contract language with MWDOC.

I. PURPOSE AND SCOPE OF WORK

Paragraph B, Independent Contractor

Revise second paragraph to read, "**CONSULTANT** shall conduct backgrounds checks if required by **DISTRICT**."

V. TERMINATION

Revise paragraph as follows:

Each PARTY may terminate this AGREEMENT at any time upon thirty (30) days written notice to the other PARTY, except as provided otherwise in Exhibit "B." In the event of termination: (1) all work product prepared by or in custody of **CONSULTANT** shall be promptly delivered to **DISTRICT**; (2) **DISTRICT** shall pay **CONSULTANT** all payments for services performed and due under this AGREEMENT on the effective date of termination; (3) **CONSULTANT** shall promptly submit a final invoice to the **DISTRICT**, which shall include any and all non-cancelable obligations owed by **CONSULTANT** at the time of termination, (4) neither PARTY waives any claim of any nature whatsoever against the other for any breach of this AGREEMENT; and; (6) **DISTRICT** and **CONSULTANT** agree to exert their best efforts to expeditiously resolve any dispute between the PARTIES.

VI. INSURANCE REQUIREMENTS

Paragraph C, Other Insurance

Revise paragraph to include the word "NEGLIGENT" as follows:

CONSULTANT will file with **DISTRICT**, before beginning professional SERVICES, ACORD certificates of insurance, or other certificates of insurance satisfactory to **DISTRICT**, evidencing general liability coverage of not less than $1,000,000 per occurrence for bodily injury, personal injury and property damage; automobile liability (owned, scheduled, non-owned or hired) of at least $1,000,000 for bodily injury and property damage each accident limit; workers' compensation (statutory limits) and employer's liability ($1,000,000) (if applicable); requiring 30 days (10 days for non payment of premium) notice of cancellation to **DISTRICT**. For the coverage required under this paragraph, the insurer(s) shall waive all rights of subrogation against **DISTRICT**, and its directors, officers, agents, employees, attorneys, consultants or volunteers. **CONSULTANT**'s insurance coverage shall be primary insurance as respects **DISTRICT**, its directors, officers, agents, employees, attorneys, consultants and volunteers for all liability arising out of the NEGLIGENT activities performed by or on behalf of the **CONSULTANT**. Any insurance pool coverage, or self-insurance maintained by **DISTRICT**, and its directors, officers, agents, employees, attorneys, consultants or volunteers shall be excess of the **CONSULTANT**'s insurance and shall not contribute to it.

VII. INDEMNIFICATION

Revise this section as follows:

To the fullest extent permitted by applicable law Civil Code Section 2782.8, **CONSULTANT** shall indemnify and hold harmless **DISTRICT**, its officers, Directors and employees and authorized volunteers from and against claims that arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of **CONSULTANT** and shall not exceed **CONSULTANT**'s proportionate percentage of fault.

XII. OWNERSHIP OF DOCUMENTS AND DISPLAYS

Add the following sentence at the end of first paragraph: "Reuse of documents by **DISTRICT** or others on extensions or modifications of this Project or on other sites or use by others on this Project, shall be at the user's sole risk, without liability to **CONSULTANT**."

XVI. ATTORNEYS' FEES

Revise paragraph as follows:

In any action at law or in equity to enforce any of the provisions or rights under this AGREEMENT, the prevailing PARTY shall be entitled to recover from the unsuccessful PARTY all costs, expenses and reasonable attorney's fees incurred therein by the prevailing PARTY as determined by a court of competent jurisdiction.



Hazen

Hazen and Sawyer
800 West 6th Street, Suite 400 • Los Angeles, CA 90015

STANDARD AGREEMENT FOR CONSULTANT SERVICES

This **AGREEMENT** for consulting services dated _____, which includes all exhibits and attachments hereto, "**AGREEMENT**" is made on the last day executed below by and between **MUNICIPAL WATER DISTRICT OF ORANGE COUNTY**, hereinafter referred to as "**DISTRICT**," and, _____ hereinafter referred to as "**CONSULTANT"** for _____ hereinafter referred to as **"SERVICES**."[1] **DISTRICT** and **CONSULTANT** are also referred to collectively herein as the **"PARTIES"** and individually as **"PARTY"**. The **PARTIES** agree as follows:

I PURPOSE AND SCOPE OF WORK

A. Consulting Work

DISTRICT hereby contracts with **CONSULTANT** to provide general or special **SERVICES** as more specifically set forth in **Exhibit "B"** attached hereto and incorporated herein. Tasks other than those specifically described therein shall not be performed without prior written approval of **DISTRICT's** General Manager.

B. Independent Contractor

CONSULTANT is retained as an independent contractor for the sole purpose of rendering professional and/or special **SERVICES** described herein and is not an agent or employee of **DISTRICT**. **CONSULTANT** shall be solely responsible for the payment of all federal, state and local income tax, social security tax, Workers' Compensation insurance, state disability insurance, and any other taxes or insurance **CONSULTANT,** as an independent contractor, is responsible for paying under federal, state or local law. **CONSULTANT** is thus not eligible to receive workers' compensation, medical, indemnity or retirement benefits, including but not limited to enrollment in CalPERS. Unless, expressly provided herein, **CONSULTANT** is not eligible to receive overtime, vacation or sick pay. **CONSULTANT** shall not represent or otherwise hold out itself or any of its directors, officers, partners, employees, or agents to be an agent or employee of **DISTRICT**. **CONSULTANT** shall have the sole and absolute discretion in determining the methods, details and means of performing the **SERVICES** required by **DISTRICT**. **CONSULTANT** shall furnish, at his/her own expense, all labor, materials, equipment and transportation necessary for the successful completion of the **SERVICES** to be performed under this **AGREEMENT. DISTRICT** shall not have any right to direct the methods, details and means of the **SERVICES;** however, **CONSULTANT** must receive prior written approval from **DISTRICT** before using any sub-consultants for **SERVICES** under this **AGREEMENT**.

CONSULTANT represents and warrants that in the process of hiring **CONSULTANT's** employees who participate in the performance of **SERVICES**, **CONSULTANT** conducts such lawful screening of those employees (including, but not limited to, background checks and Megan's Law reviews) as are appropriate and standard for employees who provide **SERVICES** of the type contemplated by this Agreement.

[1] Pursuant to Section 8002 of the District's Administrative Code, the District's "Ethics Policy" set forth at sections 7100-7111 of the Administrative Code is attached hereto as Exhibit "A" and incorporated herein by this reference.

C. **Changes in Scope of Work**

If **DISTRICT** requires changes in the tasks or scope of work shown in **Exhibit "B"** or additional work not specified therein, **DISTRICT** shall prepare a written change order. If **CONSULTANT** believes work or materials are required outside the tasks or scope of work described in **Exhibit "B,"** it shall submit a written request for a change order to the **DISTRICT**. A change order must be approved and signed by the **PARTIES** before **CONSULTANT** performs any work outside the scope of work shown in **Exhibit "B."** **DISTRICT** shall have no responsibility to compensate **CONSULTANT** for such work without an approved and signed change order. Change orders shall specify the change in the budgeted amount for **SERVICES.**

II TERM

This **AGREEMENT** shall commence upon the date of its execution and shall extend thereafter for the period specified in **Exhibit "B"** or, if no time is specified, until terminated on thirty (30) days notice as provided herein.

III BUDGET, FEES, COSTS, BILLING, PAYMENT AND RECORDS

A. **Budgeted Amount for Services**

CONSULTANT is expected to complete all **SERVICES** within the Budgeted Amount set forth on **Exhibit "B."** The total compensation for the **SERVICES** to be performed under this **AGREEMENT** shall not exceed the Budgeted Amount unless modified as provided herein. Upon expending and invoicing the **DISTRICT 80%** of the Budgeted Amount, **CONSULTANT** shall prepare and provide to **DISTRICT** a "cost to complete" estimate for the remaining **SERVICES**. The **PARTIES** shall work together to complete the project within the agreed-upon Budgeted Amount, but the obligation to complete the **SERVICES** within the Budgeted Amount lies with the **CONSULTANT**.

B. **Fees**

Fees shall be billed per the terms and conditions and at the rates set forth on **Exhibit "B"** for the term of the **AGREEMENT.** Should the term of the **AGREEMENT** extend beyond the period for which the rates are effective, the rates specified in **Exhibit "B"** shall continue to apply unless and until modified by consent of the **PARTIES**.

C. **Notification Clause**

Formal notices, demands and communications to be given hereunder by either **PARTY** shall be made in writing and may be effected by personal delivery or by registered or certified mail, postage prepaid, return receipt requested and shall be deemed communicated as of the date of mailing. If the name or address of the person to whom notices, demands or communication shall be given changes, written notice of such change shall be given, in accordance with this section, within five(5) working days.

Notices shall be made as follows:

Municipal Water District of Orange County	Consulting Firm
Harvey De La Torre	Consultant
Interim General Manager	Title
18700 Ward Street, P.O. Box 20895	Address
Fountain Valley, CA 92708	Telephone

D. **Billing and Payment**

CONSULTANT's fees shall be billed by the 10th day of the month for the previous month's activities. Invoices received by the 10th day of the month will be paid by **DISTRICT** by the end of the following month. Invoices shall reference the Purchase Order number from **DISTRICT**.

DISTRICT shall review and approve all invoices prior to payment. **CONSULTANT** agrees to submit additional supporting documentation to support the invoice if requested by **DISTRICT**. If **DISTRICT** does not approve an invoice, **DISTRICT** shall send a notice to **CONSULTANT** setting forth the reason(s) the invoice was not approved. **CONSULTANT** may re-invoice **DISTRICT** to cure the defects identified in the **DISTRICT** notice. The revised invoice will be treated as a new submittal. If **DISTRICT** contests all or any portion of an invoice, **DISTRICT** and **CONSULTANT** shall use their best efforts to resolve the contested portion of the invoice.

E. **Billing Records**

CONSULTANT shall keep records of all **SERVICES** and costs billed pursuant to this **AGREEMENT** for at least a period of seven (7) years and shall make them available for review and audit if requested by **DISTRICT**.

IV DOCUMENTS

All **MATERIALS** as defined in Paragraph XI below, related to **SERVICES** performed under this **AGREEMENT** shall be furnished to **DISTRICT** upon completion or termination of this **AGREEMENT**, or upon request by **DISTRICT**, and are the property of **DISTRICT**.

V TERMINATION

Each **PARTY** may terminate this **AGREEMENT** at any time upon thirty (30) days written notice to the other **PARTY**, except as provided otherwise in **Exhibit "B."** In the event of termination: (1) all work product prepared by or in custody of **CONSULTANT** shall be promptly delivered to **DISTRICT**; (2) **DISTRICT** shall pay **CONSULTANT** all payments for services performed and due under this **AGREEMENT** ~~at~~ on the effective date of termination; (3) **CONSULTANT** shall promptly submit a final invoice to the **DISTRICT**, which shall include any and all non-cancelable obligations owed by **CONSULTANT** at the time of termination, (4) neither **PARTY** waives any claim of any nature whatsoever against the other for any breach of this **AGREEMENT**; ~~(5) **DISTRICT** may withhold 125 percent of the estimated value of any disputed amount pending resolution of the dispute, consistent with the provisions of section III D above,~~ and; (6) **DISTRICT** and **CONSULTANT** agree to exert their best efforts to expeditiously resolve any dispute between the **PARTIES**.

VI INSURANCE REQUIREMENTS

CONSULTANT shall obtain prior to commencing work and maintain in force and effect throughout the term of this **AGREEMENT**, all insurance set forth below.

A. Workers' Compensation Insurance

By his/her signature hereunder, **CONSULTANT** certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code, which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and that **CONSULTANT** will comply with such provisions before commencing the performance of the **SERVICES** under this **AGREEMENT**.

CONSULTANT and sub-consultant will keep workers' compensation insurance for their employees in effect during all work covered by this **AGREEMENT** in accordance with applicable law. An ACORD certificate of insurance or other certificate of insurance satisfactory to **DISTRICT**, evidencing such coverage must be provided (1) by **CONSULTANT** and (2) by sub-consultant's upon request by **DISTRICT**.

B. Professional Liability Insurance

CONSULTANT shall file with **DISTRICT**, before beginning professional **SERVICES**, an ACORD certificate of insurance, or any other certificate of insurance satisfactory to **DISTRICT**, evidencing professional liability coverage of not less than $1,000,000 per claim and $1,000,000 aggregate, requiring 30 days notice of cancellation (10 days for non-payment of premium) to **DISTRICT**.

Such coverage shall be placed with a carrier with an A.M. Best rating of no less than A: VII, or equivalent. The retroactive date (if any) of such insurance coverage shall be no later than the effective date of this **AGREEMENT**. In the event that the **CONSULTANT** employs sub-consultants as part of the **SERVICES** covered by this **AGREEMENT**, **CONSULTANT** shall be responsible for requiring and confirming that each sub-consultant meets the minimum insurance requirements specified herein.

C. **Other Insurance**

CONSULTANT will file with **DISTRICT**, before beginning professional **SERVICES**, ACORD certificates of insurance, or other certificates of insurance satisfactory to **DISTRICT**, evidencing general liability coverage of not less than $1,000,000 per occurrence for bodily injury, personal injury and property damage; automobile liability (owned, scheduled, non-owned or hired) of at least $1,000,000 for bodily injury and property damage each accident limit; workers' compensation (statutory limits) and employer's liability ($1,000,000) (if applicable); requiring 30 days (10 days for non payment of premium) notice of cancellation to **DISTRICT**. For the coverage required under this paragraph, the insurer(s) shall waive all rights of subrogation against **DISTRICT**, the **PARTICIPATING AGENCIES**, and its directors, officers, agents, employees, attorneys, consultants or volunteers. **CONSULTANT's** insurance coverage shall be primary insurance as respects **DISTRICT**, the **PARTICIPATING AGENCIES**, and its directors, officers, agents, employees, attorneys, consultants and volunteers for all liability arising out of the activities performed by or on behalf of the **CONSULTANT**. Any insurance pool coverage, or self-insurance maintained by **DISTRICT**, the **PARTICIPATING AGENCIES**, and its directors, officers, agents, employees, attorneys, consultants or volunteers shall be excess of the **CONSULTANT's** insurance and shall not contribute to it.

The general liability coverage shall give **DISTRICT**, the **PARTICIPATING AGENCIES**, and its directors, officers, agents, employees, attorneys, consultants and authorized volunteers additional insured status using ISO endorsement CG2010, CG2033, or equivalent. Coverage shall be placed with a carrier with an A.M. Best rating of no less than A: VII, or equivalents. In the event that the **CONSULTANT** employs sub-consultant as part of the work covered by the **AGREEMENT**, it shall be the **CONSULTANT's** responsibility to require and confirm that each sub-consultant meets the minimum insurance requirements specified herein.

D. **Expiration of Coverage**

If any of the required coverages expire during the term of the **AGREEMENT**, **CONSULTANT** shall deliver the renewal certificate(s) including the general liability additional insured endorsement to **DISTRICT** at least ten (10) days prior to the expiration date.

VII INDEMNIFICATION

CONSULTANT shall indemnify, defend and hold harmless **DISTRICT**, the **PARTICIPATING AGENCIES**, and its elected officials, officers and employees, and each of them from and against all third party actions, proceedings, damages, costs, expenses, penalties or liabilities, in law or equity, of every kind or nature whatsoever, including reasonable legal fees and costs, arising out of, resulting from, or on account of **CONSULTANT's** negligent acts or willful misconduct in the performance of the work under this agreement, provided, however, that **CONSULTANT's** liability under this indemnity shall not apply to the extent of the contributory negligence of the **DISTRICT**, the **PARTICIPATING AGENCIES**, its employees and contractors.

~~To the fullest extent permitted by applicable law, **CONSULTANT** shall indemnify, defend and hold harmless **DISTRICT**, its officers, Directors and employees and authorized volunteers, and each of them from and against:~~

~~a. When the law establishes a professional standard of care for the **CONSULTANT's** services, all claims and demands of all persons that arise out of, pertain to, or relate to the **CONSULTANT's** negligence, recklessness or willful misconduct in the performance (or actual or alleged non-performance) of the work under this agreement. **CONSULTANT** shall defend itself against any and all liabilities, claims, losses,~~

~~damages, and costs arising out of or alleged to arise out of **CONSULTANT's** performance or non-performance of the **SERVICES** hereunder, and shall not tender such claims to **DISTRICT** nor its directors, officers, employees, or authorized volunteers, for defense or indemnity.~~

~~b. Any and all actions, proceedings, damages, costs, expenses, penalties or liabilities, in law or equity, of every kind or nature whatsoever, arising out of, resulting from, or on account of the violation of any governmental law or regulation, compliance with which is the responsibility of **CONSULTANT**.~~

~~c. Any and all losses, expenses, damages (including damages to the work itself), attorney's fees incurred by counsel of the **DISTRICT's** choice and other costs, including all costs of defense, which any of them may incur with respect to the failure, neglect, or refusal of **CONSULTANT** to faithfully perform the work and all of the **CONSULTANT's** obligations under the agreement. Such costs, expenses, and damages shall include all costs, including attorneys' fees, incurred by counsel of the **DISTRICT's** choice, incurred by the indemnified parties in any lawsuit to which they are a party.~~

~~**CONSULTANT** shall immediately defend, at **CONSULTANT's** own cost, expense and risk, any and all such aforesaid suits, actions, or other legal proceedings of every kind that may be brought or instituted against **DISTRICT** or its directors, officers, employees, or authorized volunteers with legal counsel reasonably acceptable to **DISTRICT**, and shall not tender such claims to **DISTRICT** nor its directors, officers, employees, or authorized volunteers.~~

~~**CONSULTANT** shall immediately pay and satisfy any judgment, award or decree that may be rendered against **DISTRICT** or its directors, officers, employees, or authorized volunteers, in any and all such suits, actions, or other legal proceedings.~~

~~**CONSULTANT** shall immediately reimburse **DISTRICT** or its directors, officers, employees, or authorized volunteers, for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing indemnity herein provided.~~

CONSULTANT's obligation to indemnify shall survive the termination or completion of this agreement for the full period of time allowed by law and shall not be restricted to insurance proceeds, if any, received by **DISTRICT**, the **PARTICIPATING AGENCIES**, or its directors, officers, employees, or authorized volunteers.

VIII FINANCIAL DISCLOSURE AND CONFLICTS OF INTEREST

Although **CONSULTANT** is retained as an independent contractor, **CONSULTANT** may still be required, under the California Political Reform Act and **DISTRICT's** Administrative Code, to file annual disclosure reports. **CONSULTANT** agrees to file such financial disclosure reports upon request by **DISTRICT**. Further, **CONSULTANT** shall file the annual summary of gifts required by Section 7105 of the **DISTRICT's** Ethics Policy, attached hereto as **Exhibit "A."**

Failure to file financial disclosure reports upon request and failure to file the required gift summary are grounds for termination of this **AGREEMENT.** Any action by **CONSULTANT** that is inconsistent with **DISTRICT's** Ethic's Policy current at the time of the action is grounds for termination of this **AGREEMENT**. The Ethics Policy as of the date of this **AGREEMENT** is attached hereto as **Exhibit "A."**

IX PERMITS AND LICENSES

CONSULTANT shall procure and maintain all permits, licenses and other government-required certification necessary for the performance of its **SERVICES**, all at the sole cost of **CONSULTANT**. None of the items referenced in this section shall be reimbursable to **CONSULTANT** under the **AGREEMENT**. **CONSULTANT** shall comply with any and all applicable local, state, and federal regulations and statutes including Cal/OSHA requirements.

X LABOR AND MATERIALS

CONSULTANT shall furnish, at its own expense, all labor, materials, equipment, tools, transportation and other items or services necessary for the successful completion of the **SERVICES** to be performed under this **AGREEMENT**. **CONSULTANT** shall give its full attention and supervision to the fulfillment of the provisions of this **AGREEMENT** by its employees and sub-consultant and shall be responsible for the timely performance of the **SERVICES** required by this **AGREEMENT**. All compensation for **CONSULTANT's SERVICES** under this **AGREEMENT** shall be pursuant to **Exhibit "B"** to the **AGREEMENT**.

Only those **SERVICES,** materials, administrative, overhead and travel expenses specifically listed in **Exhibit "B"** will be charged and paid. No other costs will be paid. **CONSULTANT** agrees not to invoice **DISTRICT** for any administrative expenses, overhead or travel time in connection with the **SERVICES, unless agreed upon and listed in Exhibit "B"**.

XI CONFIDENTIALITY AND RESTRICTIONS ON DISCLOSURE

A. Confidential Nature of Materials

CONSULTANT understands that all documents, records, reports, data, or other materials (collectively **"MATERIALS"**) provided by **DISTRICT** and **PARTICIPATING AGENCIES** to **CONSULTANT** pursuant to the **AGREEMENT**, including but not limited to draft reports, final report(s) and all data, information, documents, graphic displays and other items that are not proprietary to **CONSULTANT** and that are utilized or produced by **CONSULTANT** pursuant to the **AGREEMENT** are to be considered confidential for all purposes.

B. No Disclosure of Confidential Materials

CONSULTANT shall be responsible for protecting the confidentiality and maintaining the security of **DISTRICT MATERIALS** and records in its possession. All **MATERIALS** shall be deemed confidential and shall remain the property of **DISTRICT** and **PARTICIPATING AGENCIES**. **CONSULTANT** understands the sensitive nature of the above and agrees that neither its officers, partners, employees, agents or sub-consultants will release, disseminate, or otherwise publish said reports or other such data, information, documents, graphic displays, or other materials except as provided herein or as authorized, in writing, by **DISTRICT's** representative and the **PARTICIPATING AGENCY's** representative. **CONSULTANT** agrees not to make use of such **MATERIALS** for any purpose not related to the performance of the **SERVICES** under the **AGREEMENT**. **CONSULTANT** shall not make written or oral disclosures thereof, other than as necessary for its performance of the **SERVICES** hereunder, without the prior written approval of **DISTRICT** and the **PARTICIPATING AGENCY**. Disclosure of confidential **MATERIALS** shall not be made to any individual, agency, or organization except as provided for in the **AGREEMENT** or as provided for by law.

C. Protections to Ensure Control Over Materials

All confidential **MATERIALS** saved or stored by **CONSULTANT** in an electronic form shall be protected by adequate security measures to ensure that such confidential **MATERIALS** are safe from theft, loss, destruction, erasure, alteration, and any unauthorized viewing, duplication, or use. Such security measures shall include, but not be limited to, the use of current virus protection software, firewalls, data backup, passwords, and internet controls.

The provisions of this section survive the termination or completion of the **AGREEMENT**.

XII OWNERSHIP OF DOCUMENTS AND DISPLAYS

All original written or recorded data, documents, graphic displays, reports or other **MATERIALS** which contain information relating to **CONSULTANT's** performance hereunder and which are originated and prepared for **DISTRICT** and **PARTICIPATING AGENCIES** pursuant to the **AGREEMENT** are instruments of service and shall become the property of **DISTRICT** and **PARTICIPATING AGENCIES** upon completion or termination of the Project. **CONSULTANT** hereby assigns all of its right, title and interest therein to **DISTRICT** and **PARTICIPATING AGENCIES**, including but not limited to any copyright interest. In addition, **DISTRICT** and **PARTICIPATING AGENCIES** reserve~~s~~ the right to use, duplicate and disclose in whole, or in part, in any manner and for any purpose whatsoever all such data, documents, graphic displays, reports or other **MATERIALS** delivered to **DISTRICT** and **PARTICIPATING AGENCIES** pursuant to this **AGREEMENT** and to authorize others to do so. Reuse of documents by **DISTRICT** or others on extensions or modifications of this Project or on other sites or use by others on this Project, shall be at the user's sole risk, without liability to **CONSULTANT**.

To the extent that **CONSULTANT** utilizes any of its property (including, without limitation, any hardware or software of **CONSULTANT** or any proprietary or confidential information of **CONSULTANT** or any trade secrets of **CONSULTANT**) in performing **SERVICES** hereunder, such property shall remain the property of **CONSULTANT**, and **DISTRICT** and **PARTICIPATING AGENCIES** shall acquire no right or interest in such property.

CONSULTANT hereby assigns to **DISTRICT, PARTICIPATING AGENCIES** or ~~**DISTRICT's**~~ its designee, for no additional consideration, all **CONSULTANT**'s intellectual property rights, including, but not limited to, copyrights, in all deliverables and other works prepared by the **CONSULTANT** under this agreement. **CONSULTANT** shall, and shall cause its employees and agents to, promptly sign and deliver any documents and take any actions that **DISTRICT, PARTICIPATING AGENCIES,** or ~~**DISTRICT's**~~ its designee reasonably requests to establish and perfect the rights assigned to **DISTRICT, PARTICIPATING AGENCIES** or its designee under this provision.

XIII EQUAL OPPORTUNITY

DISTRICT is committed to a policy of equal opportunity for all and to providing a work environment that is free of unlawful discrimination and harassment. In keeping with this commitment, **DISTRICT** maintains a policy prohibiting unlawful discrimination and harassment in any form based on race, religious creed, color, national origin, ancestry, physical or mental disability, medical condition, pregnancy or childbirth, marital status, gender, sex, sexual orientation, veteran status or age by officials, employees and non-employees (vendors, contractors, etc.).

This policy applies to all employees, consultants and contractors of the **DISTRICT**. Appropriate corrective action will be taken against all offenders, up to and including immediate discharge or termination of this **AGREEMENT**. During, and in conjunction with, the performance of this **AGREEMENT**, **CONSULTANT** shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, age, marital status or national origin.

XIV INTEGRATION OF ALL OTHER AGREEMENTS

This **AGREEMENT**, including any Exhibits and Addenda, contains the entire understanding of the **PARTIES**, and there are no further or other agreements or understandings, written or oral, in effect between the **PARTIES** hereto relating to the subject matter hereof. Any prior understanding or agreement of the **PARTIES** shall not be binding unless expressly set forth herein and, except to the extent expressly provided for herein, no changes of this **AGREEMENT** may be made without the written consent of both **PARTIES**.

XV ELECTRONIC SIGNATURES

The Uniform Electronic Transactions Act, California Civil Code section 1633.1 et seq., authorizes **PARTIES** to conduct business electronically. In accordance with California Civil Code section 1633.5, **PARTIES** acknowledge, consent and agree that transactions subject to this **AGREEMENT** may be effectuated by electronic means through the use of electronic and/or digital signatures. For purposes of this section, an electronic signature means an electronic symbol or process logically associated with the intent to sign an electronic record pursuant to Civil Code section 1633(h). A digital signature, which is a type of electronic signature, means an electronic identifier, created by a computer, that is intended to have the same force and effect as the use of a manual signature under Government Code 16.5(d). An example of an electronic signature would be a JPG of a manual signature imposed onto this **AGREEMENT**, an example of a digital signature would be the use of DocuSign or similar provider that requires an encrypted key that certifies the authenticity of the signature.

This consent to conduct transactions by electronic means through the use of electronic and/or digital signatures extends to the execution of this **AGREEMENT** or any related contract or other document necessary for the performance of this **AGREEMENT** including, without limitation, any related offers, proposals, bids, amendments, change orders, task orders and notices.

XVI ATTORNEYS' FEES

In any action at law or in equity to enforce any of the provisions or rights under this **AGREEMENT**, the prevailing **PARTY** shall be entitled to recover from the unsuccessful **PARTY** all costs, expenses and reasonable attorney's fees incurred therein by the prevailing **PARTY** as determined by a court of competent jurisdiction.~~(including, without limitations, such costs, expense and fees on any appeals), and if such prevailing **PARTY** shall recover judgment in any such action or proceeding, such costs, expenses, including those of expert witnesses and attorneys' fees, shall be included as part of this judgment.~~

XVII JURISDICTION AND VENUE SELECTION

In all matters concerning the validity, interpretation, performance, or effect of this **AGREEMENT**, the laws of the State of California shall govern and be applicable. The **PARTIES** hereby agree and consent to the exclusive jurisdiction of the courts of the State of California and that venue of any action brought hereunder shall be in Orange County, California.

IN WITNESS WHEREOF, the **PARTIES** have hereunto affixed their names as of the day and year thereinafter, which shall be and is the effective date of this **AGREEMENT**.

APPROVED BY:

_____

Date _____

Harvey De La Torre
Interim General Manager
Municipal Water District of Orange County
18700 Ward Street,
P.O. Box 20895
Fountain Valley, CA 92708
(714) 963-3058

CONSULTANT ACCEPTANCE:

_____

Date _____

Name:
Address:
Phone:
Tax I.D. #

DRAFT

Internal Use Only:

Program No. _____

Line Item: _____

Funding Year: _____

Contract Amt.: _____

Purchase Order # _____

EXHIBIT "A"

ETHICS POLICY	§7100-§7110

§7100 PURPOSE

The policy of MWDOC is to maintain the highest standards of ethics from its Board members, officers and employees (all shall be referred to as employees for the purposes of this section). The proper operation of MWDOC requires decisions and policy to be made in the proper manner, that public office not be used for personal gain, and that all individuals associated with MWDOC remain impartial and responsible toward the public. Accordingly, all employees are expected to abide by the highest ethical standards and integrity when dealing on behalf of MWDOC with fellow Board members or employees, vendors, contractors, customers, and other members of the public.

§7101 RESPONSIBILITIES OF BOARD MEMBERS

Board members are obliged to uphold the Constitution of the United States and the Constitution of the State of California and shall comply with all applicable laws regulating Board member conduct, including conflicts of interest and financial disclosure laws. No Board member or officer shall grant any special consideration, treatment, or advantage to any person or group beyond that which is available to every other person or group in the same circumstances.

§7102 PROPER USE OF MWDOC PROPERTY AND RESOURCES

Except as specifically authorized, no employee shall use or remove or permit the use or removal of MWDOC property, including MWDOC vehicles, equipment, telephones, office supplies, and materials for personal convenience or profit. No employee shall require another MWDOC employee to perform services for the personal convenience or profit of another employee. Each employee must protect and properly use any MWDOC asset within his/her control, including information recorded on paper or in electronic form. Employees shall safeguard MWDOC property, equipment, monies, and assets against unauthorized use or removal, as well as from loss due to criminal act or breach of trust.

Employees are responsible for maintaining written records, including expense reports, in sufficient detail to reflect accurately and completely all transactions and expenditures made on MWDOC's behalf. Creating a document with misleading for false information is prohibited.

Motion - 1/17/96;

§7103 CONFLICT OF INTEREST

All MWDOC Directors, officers, and employees at every level shall comply with the requirements of Section 1090 of the California Government Code which prohibits such persons from being financially interested in any contract made by them in their official capacity, or by any body or board of which they are members, or from being a purchaser at any sale or a vendor at any purchase made by them in their official capacity.

All Directors and employees designated under MWDOC's Conflict of Interest Code ("designated employees") and employees required to report under Chapter 7, Article 2 of the Political Reform Act (Government Code Section 7300 et seq.) shall promptly and fully comply with all requirements thereof.

MWDOC employees who are not designated employees under MWDOC's Conflict of Interest Code shall refrain from participating in, making a recommendation, or otherwise attempting to influence MWDOC's selection of a contractor, consultant, product, or source of supply if the non-designated employee, or an immediate family member, has a direct or indirect financial interest in the outcome of the selection process. No employee shall use his/her position with MWDOC in any manner for the purpose of obtaining personal favors, advantages or benefits for him/herself or an immediate family member from a person or entity doing business or seeking to do business with MWDOC. Such favors, advantages, or benefits would include, but are not limited to: 1) offers of employment; 2) free or discounted goods or services; or 3) gifts.

§7104 GIFTS

No employee shall accept, directly or indirectly, any compensation, reward or gift from any source except from MWDOC, for any action related to the conduct of MWDOC business, except as set forth below:

1. Acceptance of food and refreshments of nominal value on infrequent occasions in the ordinary course of a breakfast, luncheon or dinner meeting or other meeting or on an inspection tour where the arrangements are consistent with the transaction of official business.*

2. Acceptance of transportation, lodging, meals or refreshments, in connection with attendance at widely attended gatherings sponsored by industrial, technical or professional organizations; or in connection with attendance at public ceremonies or similar activities financed by nongovernmental sources where the employee's participation on behalf of MWDOC is the result of an invitation addressed to him or her in his/her official capacity, and the transportation, lodging, meals or refreshment accepted is related to, and is in keeping with, his/her official participation.*

3. Acceptance of unsolicited advertising or promotional materials such as pens, pencils, note pads, calendars, or other items of nominal value.*

4. Acceptance of plaques and commemorative mementoes, of nominal value, or of value only to the recipient, such as service pins, recognition awards, retirement mementoes.

5. Acceptance of incidental transportation from a private organization, provided it is furnished in connection with an employee's official duties and is of the type customarily provided by the private organization.

* Nothing herein shall be deemed to relieve any Director or designated employee from reporting the value of such meals, transportation, lodging or gifts and abstaining from participation in any decision of MWDOC which could foreseeably have a material financial effect on the donor when the value of such gifts reaches the limits set forth in MWDOC's Conflict of Interest Code and the Political Reform Act.

In no event shall any employee accept gifts from any single source, the cumulative value of which exceeds the applicable gift limit under California law.

A gift or gratuity, the receipt of which is prohibited under this section, shall be returned to the donor. If return is not possible, the gift or gratuity shall be turned over to a public or charitable institution without being claimed as a charitable deduction and a report of such action, and the reasons why return was not feasible shall be made on MWDOC records. When possible, the donor also shall be informed of this action.

Motion - 1/17/96;

§7105 PERSONS OR COMPANIES REPORTING GIFTS

All persons and companies doing business with MWDOC, with the exception of public agencies, shall submit a summary, by January 31 of each calendar year, of all gifts claimed for internal vendor audits (including meals) made to, or on behalf of, employees or Directors of MWDOC, or their immediate family members, that have occurred in the normal course of business during the previous calendar year. Failure to provide this information to MWDOC may result in the termination of MWDOC business with that person or company.

Motion - 7/21/93; Motion - 8/18/93;

§7106 USE OF CONFIDENTIAL INFORMATION

Confidential information (i.e., information which is exempt from disclosure under the California Public Records Act) shall not be released to unauthorized persons unless the disclosure is approved by the Board, President of the Board, or General Manager. Employees are prohibited from using any confidential information for personal advantage or profit.

§7107 POLITICAL ACTIVITIES

During the course and scope of their employment employees are prohibited from engaging in campaign activities associated with MWDOC Director elections, MWDOC Director appointments, the appointment of MET Directors, or from attempting to influence changes to MWDOC Division boundaries, except where such activities are expressly required in the course of official duties. Employees are otherwise free to personally, endorse, advocate, contribute to, or otherwise support any political party,

candidate, or cause they may choose; however, employees are prohibited from soliciting political funds or contributions at MWDOC facilities or during the course and scope of their duties for MWDOC. In any personal political activity an employee may be involved in, it shall be made clear that the employee is acting personally and not for MWDOC. These provisions are intended to protect employees against political assessments, coerced political activities, and to prevent political activities on the part of employees from interfering with MWDOC operations. Nothing in this section shall be interpreted or applied in a manner to unlawfully curtail the constitutional right to political activity of MWDOC employees.

Motion – 6/17/15

§7108 IMPROPER ACTIVITIES

Employees shall not interfere with the proper performance of the official duties of others, but are strongly encouraged to fulfill their own moral obligations to the public, MWDOC, and its member agencies by disclosing, to the extent not expressly prohibited by law, improper activities within their knowledge. No employee shall directly or indirectly use or attempt to use the authority or influence of his/her position for the purpose of intimidating, threatening, coercing, commanding, or influencing any person with the intent of interfering with that person's duty to disclose improper activity.

§7109 VIOLATION OF POLICY – STAFF AND STAFF OFFICERS

If an employee is reported to have violated MWDOC's Ethics Policy, the matter shall be referred to any of the following: (1) the General Manager; (2) Human Resources; (3) the Board of Directors; or (4) any member of the management staff, for investigation and consideration of any appropriate action warranted which may include employment action such as demotion, reduction in salary, or termination.

If a Board appointed officer (Secretary, Treasurer or General Manager) is reported to have violated MWDOC's Ethics Policy, the matter shall be referred to the Executive Committee for investigation and consideration of any appropriate action. The Executive Committee may make a determination and present the issue to the full Board.

Motion - 1/17/96; 6/17/15

§7110 VIOLATION OF POLICY -- DIRECTORS

A perceived violation of this policy by a Director should be referred to the President of the Board or the full Board of Directors for investigation, and consideration of any appropriate action warranted. A violation of this policy may be addressed by the use of such remedies as are available by law to MWDOC, including, but not limited to: (a) adoption of a resolution expressing disapproval of the conduct of the Director who has violated this policy, (b) injunctive relief, or (c) referral of the violation to MWDOC Legal Counsel and/or the Grand Jury.

§7111 PERIODIC REVIEW OF ETHICS, CONFLICT OF INTEREST AND ADMINISTRATIVE GUIDELINES

Pursuant to the terms of Government Code Sections 53234 through 53235.2, each Director shall receive at least two hours of training in general ethics principles every two years. Pursuant to Government Code Section 53235(c), the curricula for ethics training must be approved by the Fair Political Practices Commission (FPPC) and the Attorney General. It is the general desire of the MWDOC Board to meet and review and/or receive a presentation that addresses principles relating to reporting guidelines on compensation, conflict of interest issues, and standards for rules of conduct during the first quarter of the year immediately following an election (every two years).

Each Director shall retain the certificate of completion from any ethics course in which he/she participates and shall provide a copy of such report to MWDOC. Such records shall be retained for five years from the date they are received.

M-12/21/05

DRAFT

Please note If using Consultant's proposal as Exhibit "B" please attach the proposal or complete the standard Exhibit "B" Form below, BOTH Parties must verify that all sections of this form are FULLY ADDRESSED and the appropriate Exhibit is attached and labeled accordingly

EXHIBIT "B"

SCOPE OF WORK, TERMS OF AGREEMENT AND TERMS AND CONDITIONS FOR BILLING

Company:
Name:
Address:
Phone:
Tax I.D. #

1. Term – Commencement (Insert Date) _____Termination (Insert Date) _____

2. Fees/Rates to be billed - $_____

3. Budgeted Amount – Compensation is to be on a "time and material" basis, not to exceed $_____. **CONSULTANT's** fees shall be billed by the 10th day of the month for the previous month's activities. Invoices received by the 10th day of the month will be paid by **DISTRICT** by the end of the following month. Invoices shall reference the Purchase Order number from **DISTRICT**.

   Upon invoicing **DISTRICT** 80% of the contract amount, **CONSULTANT** shall prepare and provide to **DISTRICT** a "cost to complete" estimate for the remaining work.

4. Scope of Work/Services – (Insert **SPECIFIC** description – do not list "refer to Exhibit ")
   _____

5. Consultant Representative: _____

DRAFT

AGREEMENT FOR SHARING CONSULTANT COSTS FOR COMPLETION OF INITIAL LEAD AND COPPER RULE REVISIONS LEAD SERVICE LINE INVENTORY

This Agreement for Sharing Consultant Costs for Completion of Initial Lead and Copper Rule Revisions Lead Service Line Inventory ("Agreement") is made and entered into as of [*Executed Date*] by and between:

1. MWDOC
2. *[Participating Agencies]*

(collectively "Participating Agencies" and individually "Participating Agency") and the Municipal Water District of Orange County ("MWDOC"). The Participating Agencies and MWDOC are also collectively referred to as "Parties."

RECITALS

WHEREAS, on January 15, 2021, the United States Environmental Protection Agency (US EPA) published revisions to the Lead and Copper Rule known as the Lead Copper Rule Revisions (LCRR); and

WHEREAS, under the LCRR, US EPA requires all community water systems to conduct a comprehensive inventory of both publicly owned and privately owned service line materials "regardless of ownership"; and

WHEREAS, 40 CFR §141.84(a)(8) requires water systems to identify any lead, galvanized steel pipe requiring replacement, or "lead status unknown" service lines and to make the inventory information publicly available and if a water system serves more than 50,000 people, their inventory must be provided online; and

WHEREAS, under the LCRR, each Participating Agency has the responsibility to prepare Initial Service Line Inventories (SLIs) by October 16, 2024; and

WHEREAS, the Participating Agencies are retail and wholesale agencies in Orange County that share infrastructure and are similarly situated with regard to legacy lead pipe material; and

WHEREAS, the Participating Agencies and MWDOC have a successful history of collaboration and cost sharing and now desire to coordinate in the preparation of their SLIs to obtain economies of scale and thereby reduce preparation time and costs for each of the Participating Agencies; and

WHEREAS, MWDOC and the Participating Agencies have jointly prepared and agreed to a Scope of Work that was incorporated into a Request for Proposals. In response, *five* consulting firms submitted proposals which were reviewed by a panel comprised of representatives of MWDOC and several Participating Agencies and which resulted in the selection of *[Consultant*] ("*[Consultant Shorthand]"* or "Consultant") as the consultant to prepare SLIs for the Participating Agencies (the 'Work"); and

WHEREAS, MWDOC and its staff are willing to coordinate this process, including the preparation and administration of a professional services agreement with the Consultant; and the administration of the cost sharing provisions of this Agreement;

NOW, THEREFORE, in consideration of the payment of money as set forth below and the mutual promises of the Parties hereto, it is agreed:

1. Engagement of Consultant and Administration of Consultant Agreement

1.1 MWDOC shall award a professional services agreement for the work identified in the Request for Proposals to [*Consultant*] ("Consultant Agreement"). MWDOC shall use its standard professional services agreement form for the Consultant Agreement, including any minor negotiated deviations approved by MWDOC General Manager and Legal Counsel, and require appropriate types and limits of insurance coverage. Each CGL policy shall identify MWDOC, the Participating Agencies, and their directors, officers, agents, employees, attorneys, consultants and volunteers as additional insureds, or be endorsed to identify these parties as additional insureds using a form acceptable to MWDOC. The Consultant Agreement will require the Consultant's insurer(s) to waive all rights of subrogation against MWDOC, the Participating Agencies, and their directors, officers, agents, employees, attorneys, consultants and volunteers. The Consultant Agreement will require Consultant to ensure that its sub-consultants, if any, provide similar insurance coverage.

1.2 MWDOC shall coordinate all aspects of the proposed work with the selected Consultant and communicate with each Participating Agency, and upon request of the Participating Agency, regarding the status and substance of completion and submission of the SLIs;

1.3 MWDOC shall make payments to the Consultant for progress payments as work proceeds. MWDOC shall withhold 5.0% of each progress payment to Consultant in a retention fund until such time as every Participating Agency has notified MWDOC that it is satisfied with the work prepared by the Consultant for the SLI submission.

1.4 Each Participating Agency shall, within a reasonable timeframe, provide all documents, information and assistance requested by the selected Consultant during the performance of the Consultant Agreement.

1.5 The Parties acknowledge that the US EPA may make changes to the Lead and Copper Rule Improvements after execution of this Agreement and agree to work cooperatively with the Consultant based upon how the rule changes may develop (see sections 2.1.2, 2.2.3, and 2.2.4.)

2. Cost Sharing by Participating Agencies

2.1 MWDOC shall:

2.1.1 Collect from each Participating Agency upon execution of this Agreement the 50% of the Participating Agency's proportionate share of the total cost of the Work as described in the Consultant's proposal, [which is in Exhibit [#]];

2.1.2 Inform each Participating Agency of any proposed contingency work or changes to level of effort assessments under the Consultant Agreement that would result in an increase in that Participating Agency's payment under this Agreement. MWDOC and the affected Participating Agency must both approve such work before MWDOC will notify Consultant to proceed with the work. [Exhibit # includes each Participating Agency's base cost with elected items and to be updated pursuant to this section. Exhibit # is incorporated into this Agreement by this reference, subject to any approved updates];

2.1.3 Be responsible for receiving consultant invoices and billing the Participating Agencies, in the second fiscal year, for two progress payments in the amount of 25% each of the Participating Agency's proportionate share of the total cost of the Work as described in the Consultant's proposal, including additional amounts owed for the approved changes to level of effort assessments or contingency work under the Consultant Agreement;

2.1.4 Be responsible for making progress payments directly to Consultant from funds paid to MWDOC by Participating Agencies (see section 1.3);

2.1.5 Prepare a final accounting and either distribute any remaining funds collected from the Participating Agencies back to the Participating Agencies or issue a final bill to Participating Agencies where there are funds due;

2.1.6 Share information relative to adjustments in costs among Participating Agencies on a periodic basis if decisions to participate by the various Participating Agencies effect the cost of Work.

2.2 Each Participating Agency shall:

2.2.1 Pay to MWDOC upon execution of this Agreement [*50%]* of the Participating Agency's proportionate share of the total cost of the Work as described in the Consultant's proposal, which is in Exhibit [#];

2.2.2 Within 60 days of the progress payment invoice date, pay to MWDOC progress for the Participating Agency's remaining proportionate share of the total cost of the Work as described in the Consultant's proposal;

2.2.3 Pay to MWDOC, upon approval, the full amount owed for the approved changes to level of effort assessments or contingency work under the Consultant Agreement. Each Participating Agency shall bear all costs

associated with the work it approves, described within Exhibit [#], incorporated into this Agreement by reference;

2.2.4 If Participating Agency requests or requires supplemental Work under the Consultant Agreement that was not included in the calculation of the total cost of the Work under the Contract, pay to MWDOC, the full amount owed for the supplemental Work upon next progress payment;

2.2.5 If Participating Agency requests or requires Additional Services, as provided in Exhibit [#], Participating Agency shall enter into a separate agreement with the Consultant for such work.

2.2.6 Acknowledge that as Participating Agencies decide to participate or not to participate , the cost sharing among the Participating Agencies may vary somewhat from agency to agency.

3. Accounting

3.1 Upon request of any Participating Agency, MWDOC will provide copies of the selected Consultant's invoices and MWDOC's payment records.

4. Independent Contractor

4.1 Any consultant engaged by MWDOC on behalf of the Participating Agencies as contemplated in this Agreement will not be a party to this Agreement and will not be an employee or agent of MWDOC or any of the Participating Agencies, either as a result of this Agreement or as a result of a professional services agreement between MWDOC and the Consultant. Any consultant engaged as contemplated in this Agreement will be an independent contractor to MWDOC.

5. Warranty, Indemnification and Defense

5.1 MWDOC shall use its best efforts in administering the Consultant Agreement, but makes no representations, guarantees or warranties to the Participating Agencies as to the quality or timeliness of work product provided by Consultant pursuant to the Consultant Agreement. The Participating Agencies, and each of them, shall indemnify MWDOC, its directors, officers, agents, employees, attorneys, consultants and volunteers against, and will hold and save them harmless from, any and all actions, claims, penalties, obligations or liabilities, in law or in equity, of every kind or nature whatsoever, that may be asserted or claimed by any person, firm, entity, corporation, political subdivision or other organization arising out of or in any manner directly or indirectly connected with the Consultant Agreement and/or any other work contemplated by this Agreement. In the event MWDOC, its directors, officers, agents, employees, attorneys, consultants and volunteers are made a party to any action or proceeding filed in connection with a challenge to any work prepared pursuant to the Consultant Agreement and/or any other work contemplated in this Agreement, the

Participating Agency whose work is challenged shall provide a complete defense to MWDOC, its directors, officers, agents, employees, attorneys, consultants and volunteers and shall reimburse MWDOC for all costs and expenses incurred as a result of the action or proceeding, including reasonable attorney's fees.

6. Notice

6.1 Any notice or communication required to be given under this Agreement shall be in writing and effective when deposited, first class postage prepaid with the United States Postal Service addressed to the contracting Parties as follows:

Notice to Parties	
1. MWDOC	Harvey De La Torre, Interim General Manager Municipal Water District of Orange County 18700 Ward St. P.O. Box 20895 Fountain Valley, CA 92728 With copy to: [*name*]@mwdoc.com
2. *[Participating Agency]*	*[Participating Agency Contact]*

7. Jurisdiction and Venue

7.1 In all matters concerning the validity, interpretation, performance, or effect of this Agreement, the laws of the State of California shall govern and be applicable. The Parties hereby agree and consent to the exclusive jurisdiction of the courts of the State of California and that venue of any action brought hereunder shall be in Orange County, California.

8. Counterparts and Facsimile

8.1 This Agreement may be executed by the Parties in counterparts, which counterparts shall be construed together and have the same effect as if all the Parties had executed the same instrument. Counterpart signatures may be transmitted by facsimile, email, or other electronic means and have the same force and effect as if they were original signatures. All parties have participated in the drafting of this Agreement.

9. Severability

9.1 If any provision of this Agreement shall be held illegal, invalid, or unenforceable, in whole or in part, the legality, validity, and enforceability of the remaining provisions shall not be affected thereby.

10. Term

10.1 This Agreement shall commence upon the date of the earliest execution by any Participating Agency below and shall extend thereafter through the completion of all work product generated by the Consultant and delivered to MWDOC and to each Participating Agency. The scheduled completion date by the Consultant is [*PROPOSED COMPLETION DATE*]. MWDOC shall issue a Notice of Completion to all Participating Agencies upon close-out of the Consultant Agreement. Notwithstanding anything to the contrary in this Section 10, this Agreement may be terminated earlier by MWDOC in its discretion upon or after termination of the Consultant Agreement.

11. Entire Agreement

11.1 This Agreement contains the entire agreement of the Parties relating to the subject matter hereof; and the Parties have made no agreements, representations, or warranties, either written or oral, relating to the subject matter hereof that are not set forth herein. Except as provided herein, this Agreement may not be modified or altered without prior written approval from both parties.

IN WITNESS WHEREOF, the Parties have hereunto affixed their names as of the day and year thereinafter written, which shall be and is the effective date of This Agreement.

Execution of Agreement by the Parties	
MWDOC	Date: _____ By:_____ General Manager Municipal Water District of Orange County Approved as to Form: Date:_____ By: _____
[Participating Agency]	Date: _____ By:_____ Approved as to Form: Date:_____ By: _____ *[City Attorney/General Counsel]*

GENERAL MANAGER REPORT OF STAFF ACTIVITIES

September 2023

MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

MEMBER AGENCY MANAGERS MEETING

MWDOC held its Member Agency Managers' meeting at its office in Fountain Valley on Thursday, August 17, 2023.

In attendance: Rudy Correa – Brea, Mike McGee - Buena Park, Mark Sprague – Fountain Valley, Andrew Ferrigno – Huntington Beach, Cel Pasillas - Garden Grove, Mark Vukojevic & Steffen Catron - Newport Beach, Jose Diaz – Orange, Scott Miller – Westminster, Mark Sprague - Fountain Valley, Ken Vecchiarelli - Golden State Water Company, Paul Cook & Paul Weghorst - Irvine Ranch WD, Paul Shoenberger - Mesa WD, Kaden Young, Johnathan Cruz & Laura Rocha - Moulton Niguel WD, Mike Markus – Orange County WD, David Rebensdorf - San Clemente, Jim Leach & Dan Ferons - Santa Margarita WD, Greg Pennington - South Coast WD, Fernando Paludi - Trabuco Canyon WD, Dennis Cafferty - El Toro WD, Keith Van Der Maaten – Long Beach County WD, Iris Lee – Seal Beach, Michael Grisso – Tustin, David Youngblood – East Orange County WD, Ken Vecchiarelli & Toby Moore – Golden State WC, Dustin Burnside – San Clemente, Jerry Vilander – Serrano WD, Mark Toy – Yorba Linda WD

Staff in attendance: Harvey De La Torre, Charles Busslinger, Joseph Berg, Alex Heide, Kevin Hostert, Heather Baez, Sarina Sriboonlue

General Meeting Information/Discussion Items:

- Draft Board Agendas
- MWDOC OCGJ Response Letter
- LCRR Service Line Inventory Follow-Up
- Shutdown Update
- Metropolitan Update
    - Metropolitan's Long-Range Finance Plan
    - Cyclic Cost Offset Program Modifications

Announcements:

- OC Water Summit - Friday, October 13

Report Items

- Monthly GM Report
- Legislative Reports
- WEROC Matrix
- Grant Funding Opportunities
- Additional Reports or Materials

Next meeting is tentatively scheduled for September 21, 2023

ENGINEERING & PLANNING

RELIABILITY STUDY UPDATE

Staff has been working with consultant CDM Smith, Metropolitan Water District (MET) staff, and the retail agencies on an update to the 2018 OC Water Reliability Study (2023 OC Study). Updating the planning assumptions and understanding the implications will be useful to our staff, Directors, MET Directors, and member agencies for future water reliability decision considerations. This update was launched because of significant changes in conditions since the publication of the 2018 OC Study.

Information on the Study was presented:

1.	Agency Managers Mtg	Initial Results Presentation	5/19/2022
2.	P&O Committee	Revised Results Presentation	6/06/2022
3.	P&O Committee	Revisions based on Comments	9/06/2022
4.	Agency Managers Mtg	Additional Revisions	1/12/2023
5.	A&F Committee	Additional Revisions	2/08/2023
6.	Review Draft Released for comments		5/02/2023
7.	Agency Managers Mtg	Agency Requested Meeting	6/08/2023

The final report is included as a Receive and File Informational Item in this P&O Committee packet.

LEAD AND COPPER RULE REVISIONS – LEAD SERVICE LINE INVENTORY CHOICE PROGRAM

In mid-March 2023, multiple agencies requested MWDOC's assistance in complying with US EPA Lead and Copper Rule Revisions (LCRR) - Service Line Inventories, which all water systems are required to complete and submit to the primacy agency (for California, that is the State Water Boards) by October 16, 2024.

On May 24, 2023, MWDOC hosted an initial meeting with (18) OC agencies and the State Division of Drinking Water staff regarding the LCRR – Lead Service Line Inventory compliance requirements.

On June 19, 2023, MWDOC posted an RFP to the MWDOC website for technical assistance with multiple agencies' service line inventories and directly invited seven (7) consultants to respond.

On July 26, 2023, MWDOC received five (5) proposals. A Scoring Committee reviewed the proposals toward a recommendation for consideration of the contract award at the A&F Committee on September 13, 2023.

On August 10, 2023, MWDOC hosted a 2nd workshop with interested agencies to:

- Update agencies on the status of the RFP process,
- Provide preliminary cost estimates for the various areas where agencies may need assistance,
- Get an initial count of interested agencies to support negotiations with the consultants and to
- discuss the multi-party agreement and financing of the project.

An agency survey during the workshop revealed that 21 of 22 respondents were interested in participating.

On August 15, 2023, MWDOC began negotiations with the top-scoring consultant to refine Levels of Effort and cost per service category.

On August 24, 2023, MWDOC hosted a 3rd workshop with interested agencies to provide a greater understanding of the process and timeline for achieving compliance.

In late August, MWDOC staff began one-on-one meetings with interested agencies to provide additional information and answer agency-specific questions related to LCRR compliance approach and costs, Choice Services Program financing, data needs, and others to help agencies navigate the process.

The project is scheduled to begin issuing Notices to Proceed on a first-come, first-served basis in October 2023.

MNWD PUMP-IN TO EOCF #2 TECHNICAL STUDY

MWDOC hosted a meeting on May 24, 2023, concerning MNWD's technical study of a potential pump-in project to East OC Feeder #2 from the City of Santa Ana's East Station. The meeting included MET's Water Quality Group staff, Moulton Niguel Water District (MNWD), the City of Santa Ana, OCWD, and consultant Brown & Caldwell.

MWDOC hosted a 2nd meeting on June 12, 2023, with MNWD staff, Brown & Caldwell, and staff from MET's Engineering and Operations groups to further discuss technical issues.

MWDOC hosted a 3rd technical meeting on August 2, 2023, between MET staff, MWDOC, MNWD, and consultant Brown & Caldwell.

MWDOC continues to support MNWD's efforts as they work with Brown & Caldwell to complete their technical study.

DOHENY OCEAN DESALINATION PROJECT

South Coast Water District (SCWD) continues to develop the Doheny Ocean Desalination Project. SCWD estimates an online date of 2028 if approved by the SCWD Board.

At the SCWD Board Meeting on June 22, 2023, Clean Energy Capital (CEC) provided an update on the financial implications of the project. CEC presented updated cost projections for a 5 MGD project where SCWD would take 2 MGD.

The updated estimated 1st-year water cost is $2,597/AF (in 2028$) or $2,058/AF (discounted to 2023$), which is a $469/AF increase vs. CEC's 2021 estimate. The increase is largely driven by increases in energy costs (with energy costs making up 60% of the overall cost increase).

SCWD Unit Cost of Water ($/AF)	
MWDOC Average of High and Low	$2,100
5 MGD Plant	$2,701
Difference	$ 601
SCWD Annual Cost of Water	
No Desal	$10,559,921
With 5 MGD Plant	$11,839,526
Difference	$ 1,279,605
SCWD Residential Average Monthly Cost	
No Desal	$141.63
With 5 MGD Plant	$145.64
Difference	$4.01
CEC estimates Construction Costs as follows:	
Escalated to a Feb 1, 2025, construction start date	$137,642,914
Total Grants	($ 30,423,241)
Total Development & Financing Costs	$ 30,685,350
Total Capitalized Costs	$137,905,023

SCWD Staff Report is located here:

https://scwd.granicus.com/MetaViewer.php?view_id=3&clip_id=2790&meta_id=180312

CEC Presentation slides are located here:

https://scwd.granicus.com/MetaViewer.php?view_id=3&clip_id=2790&meta_id=180313

On July 27, 2023, SCWD released the Request for Qualifications for the Progressive Design Build Operate and Maintain (DBOM) Project, with the Request for Proposals planned to be released in October 2023.

SOUTH ORANGE COUNTY NITRIFICATION ISSUES

MWDOC staff are actively working with the agencies in South Orange County and Metropolitan staff on resolving nitrification issues on the Allen McColloch Pipeline (AMP) and Joint Transmission Main (JTM). The nitrification issues are largely a result of a pronounced drop in imported water demands due to Tropical Storm Hilary from August 19-21, 2023. Temperatures during the storm event remained relatively warm, which is not usually associated with rain events in OC. MET's Water Treatment Plants are on a

high blend of State Water Project (SWP) to Colorado River Aqueduct (CRA) water. SWP water is high in organics, whereas CRA water is high in Total Dissolved Solids (TDS).

AMP

Volumetric demands on the AMP between OC-70 in the City of Orange and the downstream terminus dropped by 75% during and after the storm compared to August 18, 2023, volumes, resulting in increased detention time. MET began flushing at three locations along the lower reach of the AMP starting early am on Thursday, August 23rd, with continuous flushing through Monday, August 28th. Demands on the AMP also started increasing toward pre-storm levels beginning August 24th. Nitrite levels have steadily reduced and MET and the retail agencies continue to monitor the situation and take additional actions as needed.

JTM

Volumetric demands through CM-10 serving the Joint Transmission Main dropped 82% during and right after the storm compared to August 18, 2023, volumes, resulting in increased detention time. MET began flushing East OC Feeder No. 2 into the San Joaquin Reservoir on August 24th, with continuous flushing through Monday, August 28th. SCWD, as operator of the JTM, began flushing the JTM and mobilized a temporary chloramine booster station for the JTM on August 24th with continuous flushing and boosting of chloramines through Monday (today), August 28th. Total Chlorine residuals have greatly improved, and Nitrite levels are declining. MET, MWDOC, and the retail agencies continue to monitor and take action as needed.

SWP Blend at Diemer

There is some question about whether a high SWP blend into the Diemer Water Treatment Plant may have exacerbated the situation. Retail agencies have requested that the SWP to CRA blend be changed. MET has agreed to change the blend from 77% SWP water into Diemer to 50% beginning Monday, August 28th. We continue to work with MET and the retail agencies and continue to monitor the situation, temperatures, and import water demands on the OC pipelines.

MET is currently experiencing similar issues at multiple locations through the MET system. This event has highlighted the challenges of running the imported water system in the future as all of Southern California moves to more local water resources and lower imported demands.

SHUTDOWNS

R6 Reservoir Rehabilitation

El Toro Water District (ETWD) shut down the 275 Million Gallon R6 Reservoir to replace the aging reservoir liner and cover in November 2022. ETWD is now scheduling

reservoir refilling and return to service from Aug. 30, 2023, through Sept. 30, 2023. MWDOC is coordinating with MET and the South Orange County agencies to return R6 to service in time for an October 2023 AMP Prestressed Concrete Cylinder Pipe (PCCP) Inspection shutdown.

AMP Prestressed Concrete Cylinder Pipe (PCCP) Inspection

MWDOC has coordinated with ETWD, MET, and the SOC agencies to move the scheduled shutdown of the AMP down-gradient of OC-70 to Oct. 29, 2023 – Nov. 4, 2023, to accommodate the R6 reservoir return to service. R6 is needed to support SOC agencies during the AMP Shutdown.

MET is conducting a periodic inspection of the PCCP sections of the AMP. These inspections are to monitor the condition of the high tensile strength prestressed structural steel wire in the pipe. A rehabilitation project for the AMP to add a structural steel liner to the PCCP sections of the pipeline is currently in design with an estimated start date of late 2027, which will require a series of shutdowns over a 2–3-year period.

Diemer Water Treatment Plant

MET has rescheduled a 7-day shutdown of the Diemer WTP to repair a broken chlorine solution line to January 5-11, 2024. Finding a suitable window for this shutdown presented challenges due to numerous maintenance shutdowns by MET and retail agencies and fire danger concerns.

Coinciding with the 7-day Diemer shutdown, the following pipelines will also be down for repairs:

- Allen-McColloch Pipeline
- East Orange County Feeder No.1
- East Orange County Feeder No.2
- Lower Feeder (Treated)
- Lower Feeder (Untreated)
- Second Lower Feeder (portions)

EMERGENCY PREPAREDNESS

AUGUST INCIDENTS/EVENTS

- Tropical Storm Hilary

Vicki represented water/wastewater agencies on 6 County Coordination calls. She also sent updates and information to the agencies throughout the event. She worked with those with potential impacts, such as reservoir overflow potential, to communicate with city emergency managers and the County as required.

Vicki can provide additional information on this event as warranted.

COORDINATION/PARTICIPATION WITH MEMBER AGENCIES AND OUTSIDE AGENCIES MEETINGS OUTSIDE OF PROGRAMS AREAS AND EMERGENCY RESPONSE

- On 8/3, Janine attended the monthly Orange County Emergency Management Organization (OCEMO) meeting in Laguna Niguel. Presentations included an overview of the OC Courts system, Emergency Management, and the normally scheduled subcommittee report-outs.
- On 8/4, Vicki gave her monthly update to the WACO meeting.
- On 8/9, Vickii attended the quarterly Operational Area Executive Board meeting and provided the water/wastewater activation report to the group.
- On 8/10, Vicki attended the IRWD tabletop exercise for the Santiago Dam Reservoir.
- On 8/11, Vicki joined SMWD on a conference call with the California Office of Emergency Services (CalOES) regarding the OSO Dam Plan, in which CalOES asked for specific changes before approval. Vicki will be assisting SMWD with the corrections before resubmitting for approval.
- On 8/14, Vicki attended a GIS planning meeting with WUE and Engineering.
- On 8/15, the WEROC Quarterly Meeting was held with member agencies.
- On 8/16, Janine attended the AWWA Water Education Seminars at Santiago College in Orange.
- On 8/22, Vicki attended a workshop/tabletop initial planning meeting with the South Coast Water District. Vicki is designing an exercise for the agency to encompass an after-action meeting, training on policies and procedures, and a discussion-based module to apply information learned.
- On 8/23, Vicki supported OCWD with the fire/evacuation drill by evaluating the drill and providing feedback on the event.
- On 8/28, Vicki attended the Urban Area Security Initiative (UASI) Working Group meeting to start providing stakeholder feedback on the annual State Preparedness Report.

PLANNING AND PROGRAM EFFORTS

EOC Readiness & EOC Project

Mobile CP/EOC Project - Refer to Discussion item #1 at the September P&O Committee Meeting.

Efforts to continue implementing lessons learned from the May 2023 exercise are taking place. An example of current actions is developing a functional email address for use by any EOC responder.

IT & Cyber Security

WEROC continues to send out important information to the Cyber Security Distribution Group as received from DHS or the OCIAC.

The next WEROC Cyber Security Working Group meeting is scheduled for September 19th. There will be a briefing by the FBI and OCIAC on the Discovery Bay Water Facility Attack and an overview of current threats and IT Information presented to the group.

Member Agency and County/Operational Area Plan Review

Vicki reviewed or revised the following plans this month:

- SCWD Palisades Dam Emergency Response Plan (has been submitted to CalOES for approval)
- SMWD Oso Reservoir Plan (revision made based on input from CalOES) and submitted for approval.

Regional Fuel Project

Vicki has begun the research and data collection for the Regional Fuel Planning Project. Agencies were asked to provide critical infrastructure information by August 31st.

Regional Mapping Project

Janine has started revising the 2017 WEROC Map Atlas and Public Safety Power Shut (PSPS) Off map updates.

Resource Requests and Member Agency Inventory Lists

Janine has completed this project.

TRAINING AND EXERCISES

On 8/7 & 8/8., Vicki taught a G626 EOC Action Planning Course at Moulton Niguel Water District.

Vicki is creating a Workshop/Tabletop Exercise (TTX) for SCWD to be delivered on October 26th.

WEROC QUARTERLY MEETING

The WEROC Quarterly Meeting was held on August 15th. The following was the agenda for the meeting:

- Current Events Update
  - Covid-19 Update
  - WEROC Mobile EOC Update
  - Regional Fuel Planning Project
  - Member Agency Resource Inventory Listings Update
  - Great Shakeout 2023
  - National EAS Test
- WEROC's Goals and Objectives 2024
  - Planning & Program Initiatives
    - Member Agency Mapping Project
    - 2024 Hazard Mitigation/AWIA Project
    - Cybersecurity Program Update
  - Training and Exercises
    - WEROC Trainings for the remainder of 2023
    - WEROC IPP Multi-Year Training Schedule 2024+

MET ITEMS CRITICAL TO ORANGE COUNTY

MET FINANCE AND RATE ISSUES

RECENT ACTIVITY

Water Transactions for June 2023 (for water delivered in April 2023) totaled 75.4 thousand acre-feet (TAF), which was 44.2 TAF lower than the budget of 119.6 TAF and translates to $75.2 million in receipts for June 2023, which was $40.6 million lower than the budget of $115.8 million.

Year-to-date water transactions through June 2023 (for water delivered in May 2022 through April 2023) were 1,385.8 TAF, which was 204.4 TAF lower than the budget of 1,590.2 TAF. Year-to-date water receipts through June 2023 were $1,322.7 million, which was $180.5 million lower than the budget of $1,503.2 million.

On June 21, 2023, Metropolitan issued $258,410,000 in Water Revenue and Refunding Bonds, 2023 Series A. Bond proceeds funded a portion of Metropolitan's Capital Investment Plan, repaid a $35.6 million draw on a Wells Fargo Bank Revolving Credit Facility that was used to refund a similar amount of subordinate lien bonds, and funded issuance costs.

MET'S SUPPLY CONDITION UPDATE

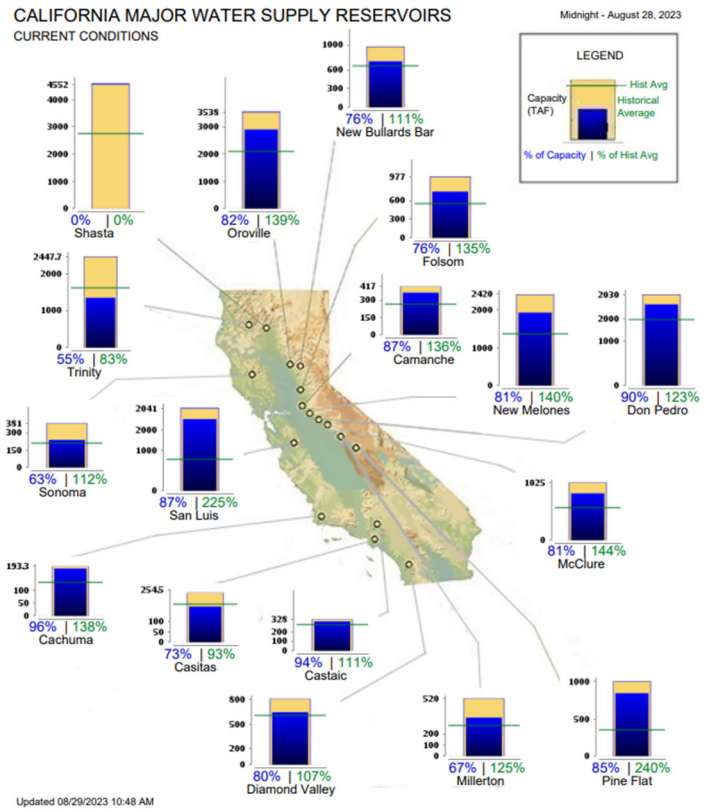
The 2022-23 Water Year (2022-23 WY) officially started on October 1, 2022. Thus far, Northern California accumulated precipitation (8-Station Index) reported ***65.1 inches or 132% of normal*** as of August 29th. The Northern Sierra Snow Water Equivalent peaked at ***59.1 inches on April 9th***, which is ***215% of normal*** for that day. Due to the barrage of atmospheric rivers in January and March, the Department of Water Resources (DWR) has increased the State Water Project (SWP) ***"Table A" allocation to 100%.*** This allocation provides Metropolitan with approximately ***1,911,500 AF in SWP deliveries this water year.*** In addition, Article 21 supplies (approximately 148,000 AF) were made to SWP contractors on March 24, 2023. DWR's SWP Allocation considers several factors, including existing storage in SWP, conservation reservoirs, SWP operational, regulatory constraints, and the 2023 contractor demands. Metropolitan also received ***134,000 AF for Human Health and Safety Supply in*** Calendar Year ***(CY) 2022.***

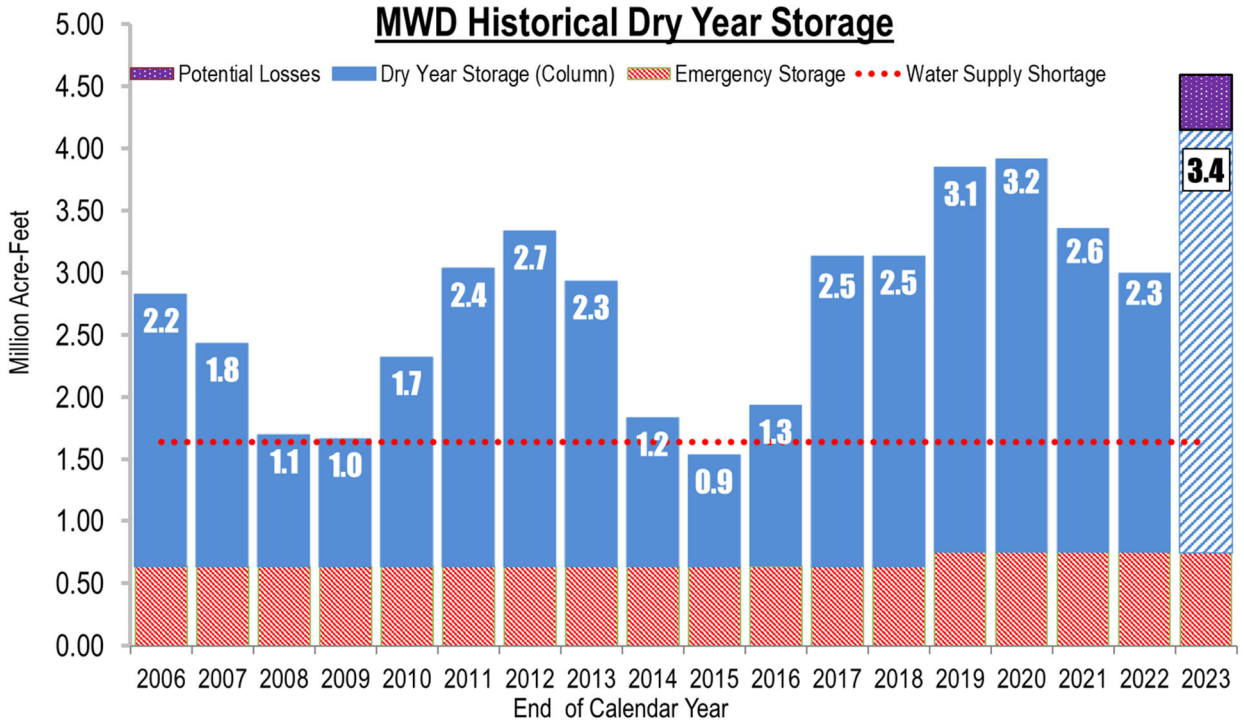
The Upper Colorado River Basin accumulated precipitation is reporting ***32.3 inches or 117% of normal as of August 28th***. On the Colorado River system, snowpack is measured across four states in the Upper Colorado River Basin. The Upper Colorado River Basin Snow Water Equivalent peaked at ***26.2 inches as of April 10th***, which is ***131% of normal*** for that day. Due to the below-average inflows into Lake Powell over the past several years, the United States Bureau of Reclamation **declared a shortage at Lake Mead that has been ongoing since January 1st, 2022**. As of August, **there is a 93% chance of shortage continuing in CY 2024 and a 3% chance that Metropolitan will see a 180,000 AF reduction in Colorado River water supplies in CY 2025.**

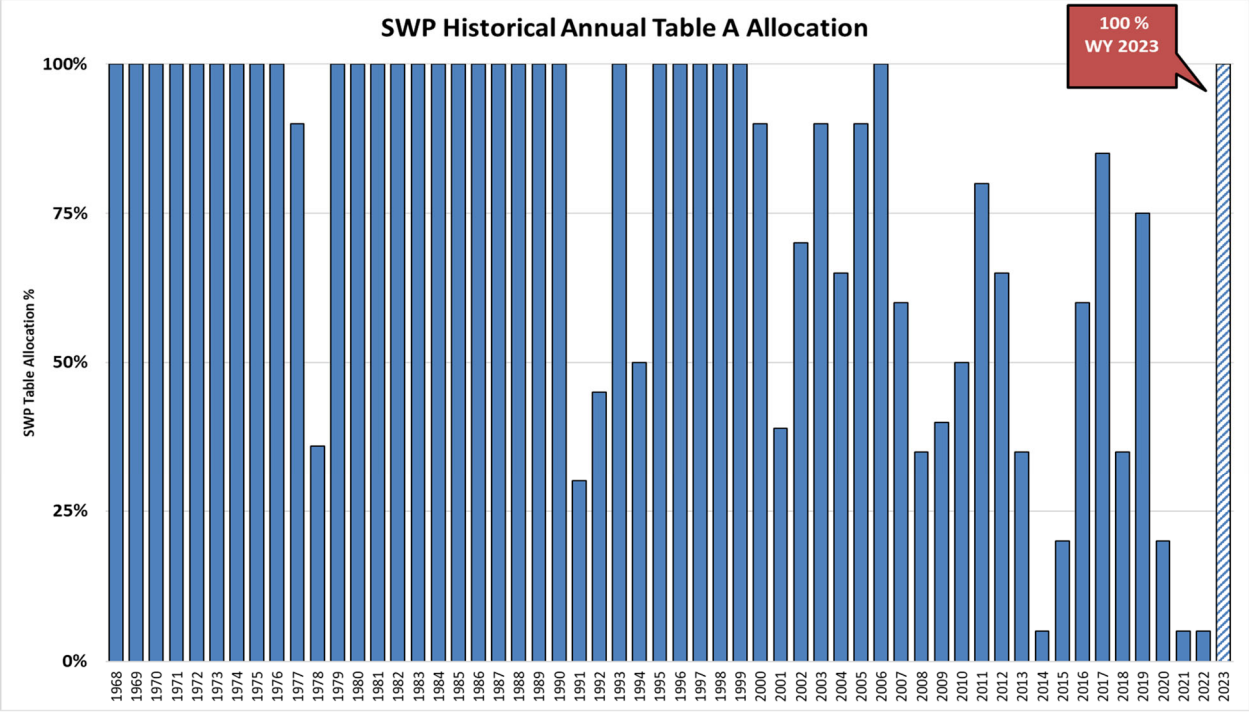
As of August 28th, Lake Oroville storage is ***82% of total capacity and 139% of normal.*** As of August 28th, San Luis Reservoir has a current volume of ***87% of the reservoir's total capacity and is 225% of normal.***

With CY 2023 estimated total demands and losses of 1.55 million acre-feet (MAF) and with a 100% SWP Table A Allocation, Metropolitan is projecting that supplies will exceed demand levels in CY 2023. Based on this, Metropolitan's estimated dry-year storage at the end of ***CY 2023 will increase to approximately 3.4 MAF.***

A projected dry-year storage supply of ***3.4 MAF would be the highest level in MWD History. Unfortunately, due to the 100% SWP Table A Allocation, there is potential that MWD will not be able to store approximately 437 TAF.*** A large factor in maintaining a high-water storage level is lower than expected water demands**.** We are seeing regional water demands reaching a 40-year low. **However, *with a majority of MWD's water supplies stored in Lake Mead and still a 5-year shortage projection at Lake Mead, there remains a lot of uncertainty about where supply balances will be in the future.***




MWD Historical Dry Year Storage
Potential Losses
Dry Year Storage (Column)
Emergency Storage
Water Supply Shortage
Million Acre-Feet
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
2.2
1.8
1.1
1.0
1.7
2.4
2.7
2.3
1.2
0.9
1.3
2.5
2.5
3.1
3.2
2.6
2.3
3.4
2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023
End of Calendar Year


SWP Historical Annual Table A Allocation
100 %
WY 2023
SWP Table Allocation %
100%
75%
50%
25%
0%
1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023

MET'S WATER QUALITY UPDATE

Water System Operations

Metropolitan member agency water deliveries were 112,400 acre-feet (AF) for July, with an average of 3,600 AF per day, which was about 700 AF per day higher than in June. In addition, Metropolitan delivered 24,600 AF to Cyclic and Conjunctive Use Programs. Treated water deliveries increased by around 10,000 AF from June for a total of 69,600 AF, or 51 percent of total deliveries for the month. The Colorado River Aqueduct (CRA) pumped a total of 70,000 AF in June. State Water Project (SWP) imports averaged 4,200 AF per day, totaling about 130,000 AF for the month. The target SWP blend is around 50 percent for the Weymouth and Diemer plants and 55 percent for the Skinner plant.

Water Treatment and Distribution

The SWP target blend entering the Weymouth and Diemer plants was approximately 50 percent in July. The Mills plant continued to receive a blend of water from Silverwood Lake and Lake Perris in July because of low alkalinity in the East Branch SWP. The SWP target entering Lake Skinner fluctuated to accommodate multiple operational needs and to maximize water delivery from the SWP. The SWP blend leaving Lake Skinner was in the range of 40 to 70 percent. Flow-weighted running annual averages for total dissolved solids from June 2022 through May 2023 for Metropolitan's treatment plants capable of receiving a blend of supplies from the SWP and the CRA were 545, 558, and 620 mg/L for the Weymouth, Diemer, and Skinner plants, respectively. Metropolitan staff cleaned the sedimentation basin as part of the annual preventative maintenance work at the Diemer plant. The sedimentation basins are essential to the treatment process, where most suspended solids are removed. Preventative maintenance is critical to ensure the reliability and longevity of the equipment.

Future Legislation and Regulation

On June 16, the Division of Drinking Water announced a proposed maximum contaminant level (MCL) for hexavalent chromium of 10 micrograms per liter (µg/L) and a detection limit for purposes of reporting (DLR) of 0.1 µg/L. Compliance timelines vary from 2 to 4 years, depending on system size. Metropolitan staff will submit comments in support of the MCL by the August 4, 2023, comment deadline.

On July 5, Metropolitan staff submitted written comments to the Senate Environment and Public Works Committee on a draft bill to address PFAS in the environment. The letter asked Congress to provide a more expansive definition of PFAS to protect against future PFAS contaminants; follow the tenants of the Safe Drinking Water Act rather than mandating various PFAS (namely PFNA, PFHxS, PFBS, and HFPO-DA) be regulated; provide grants or loans to help water systems install PFAS remediation systems; and most important, add a new section that exempts water and wastewater treatment facilities from liability under CERCLA. Metropolitan staff will continue to engage Congress and EPA with respect to regulating PFAS. On July 21, the State Water Resources Control Board released proposed Direct Potable Reuse (DPR) regulations. The regulations provide the regulatory framework by which highly treated recycled water

can be introduced immediately upstream of a water treatment plant or directly into a public water system. Metropolitan staff is coordinating with the Los Angeles County Sanitation Districts and the member agencies on comments to be submitted by the September 8, 2023, comment deadline.

The Metropolitan Water District of Southern California

Weekly Operations Plan for 8/24/2023 – 8/31/2023

For additional information, please contact James Bodnar at (213) 217-6099

1. **COLORADO RIVER AQUEDUCT:** The CRA is at a 3-pump flow.

2. **EAST BRANCH SPW:** Rialto Pipeline will average a flow between 1,000 and 1,300 AF/day. Santa Ana Valley Pipeline will be at 125 – 175 AF/day. Inland Feeder flow will be at 1,450 – 1,650 AF/day.

3. **WEST BRANCH SPW:** The flow from Castaic Lake will range between 1,200 and 1,500 AF/day. Flow to SCVWA (formerly CLWA) is currently at 60 AF/day.

4. **TERMINAL RESERVOIRS:**

Reservoir	Current Storage* (AF)	Percent of Capacity
Lake Mathews	154,100	85%
Lake Skinner	39,000	89%
DVL	642,800	79%

*as of 8/23/2023

5. **WATER QUALITY:**

Plant	Targeted Blend (% SPW)	TDS (mg/L)	TTHMs (µg/L)
	As of 8/23/2023	As of 8/23/2023	As of 7/31/2023
Weymouth	80	258	18
Diemer	80	271	38
Skinner	55	392	22
Jensen	100	357	17
Mills	100	173	74

6. **WATER DELIVERIES:** August deliveries are forecasted to be about 121 TAF. As of August 23, 2023, total system demands are about 4,300 AF/day, a decrease of 2,000 AF/day from last week.

7. **HYDROELECTRIC GENERATION:** As of August 23, 2023, the total daily average generation for the week was about 11.0 MW, with 3 of 15 hydroelectric plants in operation.

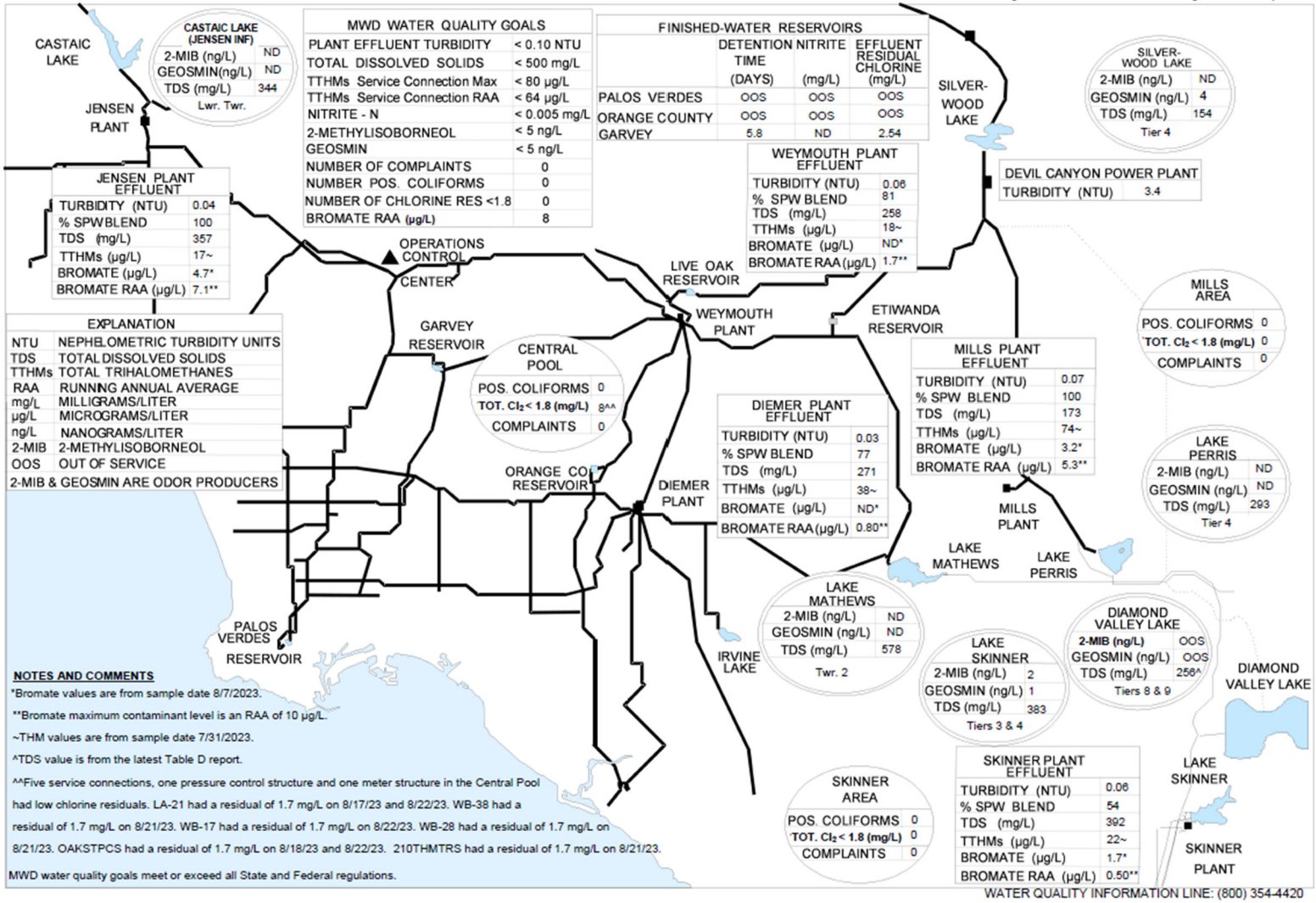
Weekly Water Quality System Status

Wednesday, August 23, 2023

Generated On:8/23/2023 10:04:29 AM

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



NOTES AND COMMENTS

*Bromate values are from sample date 8/7/2023.

**Bromate maximum contaminant level is an RAA of 10 µg/L.

~THM values are from sample date 7/31/2023.

^TDS value is from the latest Table D report.

^^Five service connections, one pressure control structure and one meter structure in the Central Pool had low chlorine residuals. LA-21 had a residual of 1.7 mg/L on 8/17/23 and 8/22/23. WB-38 had a residual of 1.7 mg/L on 8/21/23. WB-17 had a residual of 1.7 mg/L on 8/22/23. WB-28 had a residual of 1.7 mg/L on 8/21/23. OAKSTPCS had a residual of 1.7 mg/L on 8/18/23 and 8/22/23. 210THMTRS had a residual of 1.7 mg/L on 8/21/23.

MWD water quality goals meet or exceed all State and Federal regulations.

WATER QUALITY INFORMATION LINE: (800) 354-4420

VISIT MWD ON THE WEB AT http://www.mwdh2o.com

Water Quality Section Weekly TDS Report

For the week of 7/30/2023

Percent SPW Needed to Achieve TDS Goal of 500 mg/L			
Source Water TDS			SPW Required
Plant	CRW	SPW	Percent
Weymouth	606	179	25%
Diemer	606	179	25%
Skinner-Silverwood	656	179	33%
Skinner-Perris	656	138	30%

CRW for Diemer and Weymouth is Lake Mathews and San Jacinto - West Portal for Skinner.

Estimated TDS for Reservoirs		
Reservoir (Effluent)	Date	mg/L
Lake Havasu (Table D)	6/14/23	660
Lake Mathews (DFPI-LWRFDR)	7/31/23	606
Lake Skinner (Outlet Structure)	7/31/23	366
Castaic Lake (JFPI)	7/30/23	345
Silverwood (Mills Inf)	7/30/23	179
Lake Perris	7/31/23	138
DVL Outlet (Table D)	6/7/23	256

SUNDAY COMPOSITE ESTIMATED TDS FOR 03/26/23 - 07/30/23

TDS For Week of 7/30	
Plant Eff.	mg/L
Diemer	431
Weymouth	462
Skinner	402
Jensen	354
Mills	208



Sunday composite estimated TDS measured from plant effluent composite samples collected on Sunday and analyzed for hardness and electrical conductivity.

WEEKLY COMPOSITE ESTIMATED TDS FOR 03/26/23 - 07/30/23

TDS For 7/24 - 7/30	
Plant Eff.	mg/L
Diemer	443
Weymouth	458
Skinner	397



Weekly composite estimated TDS measured from plant effluent composite samples collected Monday through Sunday and analyzed for hardness and electrical conductivity.

MONTHLY COMPOSITE CALCULATED TDS FOR July 2022 - June 2023

TDS For Jun 2023	
Plant Eff.	mg/L
Diemer	260
Weymouth	276
Skinner	460
Jensen	350
Mills	185



Monthly calculated TDS calculated from plant effluent monthly composite sample for total anions and cations. These results are also used for Table D.

FLOW WEIGHTED RAA TDS FOR July 2022 - June 2023

Flow-Weighted RAA TDS Jul 2022 - Jun 2023	
Plant	mg/L
Diemer	535
Weymouth	523
Skinner	608
Jensen	343
Mills	268



Seasonal flow weighted RAA TDS calculated from plant effluent monthly composite sample for total anions and cations. Results are based on average monthly flows.

COLORADO RIVER ISSUES

Work Continues on Post-2026 Guidelines Process and Lower Basin Plan as Part of the Revised Supplemental Environmental Impact Statement (EIS) for Short-Term Operations

On June 16, the U.S. Bureau of Reclamation (Reclamation) initiated the process of developing the post-2026 Colorado River Guidelines. They laid out a schedule in which a Draft EIS would be prepared by the end of 2024, followed by a Final EIS and Record of Decision in time for the 2027 operating year. The initial step is to solicit scoping comments for the National Environmental Policy Act process. Reclamation has requested input on the scope, strategies, and other issues that should be considered in developing the EIS. In July, the Colorado River Basin States (Basin States) have been meeting to develop a seven-state scoping comment letter. The letter does not include negotiating positions but does include what actions should be analyzed in the EIS. Metropolitan staff participates in an interstate workgroup that is drafting the letter, which, if approved, would be signed by the Chair of the Colorado River Board of California and the principal representatives from each of the other Basin States. Metropolitan plans to send a separate set of scoping comments to focus on our agency's interest in the upcoming Guidelines. Comments are due August 15, and Metropolitan staff will share a copy of the comments with the Board when they are complete.

Work also continues developing the Lower Basin Plan to conserve an additional 3 million acre-feet of water above the existing shortage requirements. In July, Coachella Valley Water District (CVWD) executed a contract to conserve 105,000 acre-feet of water over the next three years, leaving the water in Lake Mead as system water. CVWD will receive funds under the Inflation Reduction Act (IRA) for water left in Lake Mead. Also in July, Imperial Irrigation District and the Fort Mojave Quechan Indian Tribe received draft water conservation contracts to conserve additional supplies. Palo Verde Irrigation District and Bard Water District are still waiting for their contracts. In July, Reclamation extended the deadline to submit longer-term conservation proposals for IRA funding, known as "Bucket 2 Projects," to August 18. Metropolitan staff is developing a proposal to submit to Reclamation and will incorporate feedback from the Board and member agencies in its final proposal. Metropolitan staff will share a copy of the submittal with the Board when completed.

DELTA CONVEYANCE ACTIVITIES AND STATE WATER PROJECT ISSUES

Delta Conveyance

The California Department of Water Resources (DWR) released a draft Environmental Impact Report (EIR) to comply with the California Environmental Quality Act for a public review that ended on December 16, 2022. DWR received more than 700 unique comment letters with over 6,000 individual comments. DWR is in the process of developing responses to the comments received. The Final EIR is expected at the end of 2023. It will include responses to all substantive comments on the Draft EIR and edits to the Draft EIR, as appropriate, to respond to the comments.

The U.S. Army Corps of Engineers (USACE), as part of its permitting review under the Clean Water Act and Rivers and Harbors Act, released a draft Environmental Impact Statement (EIS) to comply with the National Environmental Policy Act for a public review that ended on March 16, 2023. USACE is in the process of developing responses to the comments received.

Sites Reservoir

At the joint Sites Project Authority (Authority) Board and Reservoir Committee Meeting on July 21, the Reservoir Committee and Authority Board authorized the Executive Director to submit a request for the Sites Reservoir Project to receive the Governor's certification as a Senate Bill 149-eligible infrastructure project. This request includes agreeing to pay the costs of the trial court and the court of appeal and preparing the record of proceedings. Requesting the Governor now is necessary because the Senate Bill 149 certification must occur before the approval of the Final EIR/EIS by the Authority, which is currently scheduled for certification in September 2023. If certified, any California Environmental Quality Act (CEQA) litigation would be expedited, with the goal of completing trial court and appellate proceedings within 270 days of filing the certified administrative record.

The Authority is required under the Joint Powers Agreement to have an annual audit performed. Fechter and Company, Certified Public Accountants, continues to be the Authority's auditor and has concluded an examination of the Authority's financial information, including fiscal year 2022. The 2022 financial audit, which included a single audit, found no significant or reportable findings. There were no recommended improvements for strengthening internal controls and operation efficiency identified in the 2022 report.

Science Activities

Throughout July, Metropolitan science staff participated in the final presentations of multiple analyses covering Delta smelt entrainment, management of longfin smelt, and habitat actions related to the 2020 Incidental Take Permit (ITP) and 2019 Biological Opinions (BiOp). At the Delta Smelt Scoping Team on July 11, Metropolitan staff presented the final analysis of the Collaborative Adaptive Management Team (CAMT) Entrainment Studies. The analysis centered on evaluating estimates of proportional entrainment of adult Delta smelt in a lifecycle model. Although proportional entrainment could have influenced the population in the past, the analysis ultimately concluded that recent low entrainment was not likely to be significant to the population. The results suggest that the current entrainment management may be effective.

On July 20, at the Estuarine Ecology Team meeting, Metropolitan staff participated in the presentation of efforts by state and federal agencies to manage longfin smelt in the San Francisco Estuary. The presentations included updates on Priority Science Efforts as mandated by the 2020 ITP to operate the State Water Project. The presentation

highlights efforts to improve entrainment risk predictions, lifecycle modeling, and culturing efforts.

Metropolitan science staff continues to participate with state and federal agencies in developing the final analysis and presentations on the Summer Fall Habitat Actions from the 2019 BiOp/2020 ITP for independent review as part of the four-year review requirement from the permits. The analysis will include an evaluation of the North Delta Foodweb Subsidy, the Suisun Marsh Salinity Control Gate, and Fall X2. The analysis will be limited because of the limited times that each of these actions were implemented. It may be an update for the future panel to comment on future evaluations.

Delta Island Activities

On July 11, Metropolitan's Board approved the purchase of the remaining flow meters in compliance with Senate Bill 88 (2016). Once this phase of meters is installed by the end of 2024, Metropolitan will have fulfilled its obligation under the approved" Plan for Phased Measurement Implementation" for each of its Delta Islands. Continuous data collection for water diversions will be important for annual water use reporting to the Water Resources Control Board.

Metropolitan staff is conducting final technical advisory meetings for the Delta Island Adaptations Project and developing concept-level adaptions recommendations for the draft/final "Outcomes" report for Bouldin Island. This phase of the project is looking at landscape opportunities to stop land subsidence, reduce greenhouse gas emissions, provide for sustainable agriculture, promote habitat restoration, and build collaboration for community science, agriculture, and ecoculture education through land use opportunities. The project team will begin drafting the "Outcomes" report, with a final report completed by the end of 2023. Future reports will inform the Board on input received and last adaptation opportunities (pilot/research projects) for Bouldin Island.

Following the Board's action to accept the $20.9 million grant from the Delta Conservancy for the Webb Tract Mosaic Landscape Project (Project), Metropolitan staff is preparing a board action to be heard at the September 2023 Engineering, Operations, and Technology Committee meeting to amend the current biennial Capital Investment Plan to add the Project and award consultant agreements for design, environmental planning, and scientific analyses. Awarding these agreements and signing the finalized grant agreement with the Sacramento-San Joaquin Delta Conservancy will kick off Phase 1 of the Project. Metropolitan staff will return to the Board for approval of environmental documentation before proceeding with Phase 2.

PUBLIC/GOVERNMENT AFFAIRS

MEMBER AGENCY SUPPORT

Public Affairs Staff:

- Created and distributed Fall 2023 Bill Inserts for nine member agencies

Government Affairs Staff:

- Circulated the monthly grants tracking and acquisition report to member agencies
- Made various updates to the grants tracking project and contact lists
- Provided a letter of support to El Toro Water District for their grant application

COMMUNITY AND SPECIAL EVENTS

Public Affairs Staff:

- Speakers Bureau – Coordinated a presentation for President Schneider for the Canyon Democratic Club meeting on Tuesday, August 15
- Continue to participate in the planning and coordination of the OC Water Summit
- Partnered with Save Our Water to co-host a booth at the OC Fair and provided rebate information and giveaways to visitors. An average of 45,000 people visit the OC Fair each day.
- Provided a booth for the Annual Festival of the Butterflies in San Juan Capistrano, interacted with 337 attendees
- Planned and coordinated the first Scouts BSA Soil and Water Conservation Merit Badge Clinic of the fiscal year with the Santa Margarita Water District, where 62 Orange County Scouts earned their badge
- Participated in Girl Scouts of Orange County STEM Roundtable
- Met with Girl Scouts of Orange County to plan and promote upcoming Girl Scouts Water Resources and Conservation Patch Program clinics
- Speakers Bureau – Attended a speaking engagement with Director Seckel at Leisure World on Wednesday, August 16.

Government Affairs Staff:

- Participated in the OCBC Governmental Affairs Committee meeting
- Attended the OCBC Infrastructure Committee meeting
- Attended the ACC-OC Legislative Reception featuring a panel discussion with Senators Min, Nguyen, and Archuletta and Assembly Members Sanchez, Dixon, Petrie-Norris, and Davies
- Along with Directors Dick and Crane, met with Supervisor Don Wagner, re: LAFCO
- Attended the Orange County Public Affairs Association Legislative Staffers lunch
- Attended the ACWA State Legislative Committee meeting

K-12 WATER EDUCATION

Public Affairs Staff:

- Met with Orange County teacher – named Irvine Teacher of the Year, Orange County Teacher of the Year, and top 10 for California Teacher of the Year – to discuss education opportunities for students and teachers
- Provided information regarding MWDOC Choice School Programs to Director Crane as well as the City of Santa Ana, East Orange County Water District, City of La Habra, City of Huntington Beach, City of Anaheim, and City of Westminster
- Provided information regarding MWDOC Water Education Initiatives to Centralia School Board member
- Met with MWDOC Choice School Program contractors – Shows That Teach and Orange County Department of Education's Inside the Outdoors – to prepare for the upcoming school year
- Sent shared Google Calendar information to participating MWDOC Choice School Program agencies – updated as soon as school visits are scheduled

WORKFORCE INITIATIVE

Public Affairs Staff:

- Photographed and video recorded the Municipal Water District of Orange County's Leak Detection crew to be used in promotional materials
- Met with San Diego County Office of Education to discuss opportunities to participate in the Water Energy Education Alliance

DIGITAL COMMUNICATIONS, PUBLICATIONS, AND MEDIA ENGAGEMENT

Public Affairs Staff:

- Prepared and distributed content for social media
- Submitted content to the Association of California Water Agencies newsroom
  - MWDOC's Water Education Mascot Inspires Budding Artists
- Updated the MWDOC website as requested by several departments
- Interviewed and video recorded Chapman University's Energy Conservation and Sustainability Manager on her experience with the MWDOC Turf Removal and Spray-to-Drip Rebate Programs

SPECIAL PROJECTS

Public Affairs Staff:

- Planned and coordinated an Inspection Trip for the Orange County Grand Jury with Directors Dick and Seckel to local infrastructure locations with 10 Grand Jury members in attendance

Governmental Affairs Staff:

- Staffed the August WACO meeting
- Staffed the WACO Planning meeting
- Confirmed the speaker and coordinated details for the ISDOC Quarterly Luncheon meeting in September
- Confirmed speakers for the September WACO meeting

OUTREACH METRICS

Public Affairs Staff:

- Google Performance Analytics (August 2023)
  - 226 business profile interactions
  - 2,244 people viewed the business profile
- Website Analytics (GM report timeframe)
  - 11k pageviews
  - Top pages for this date range
    - MWDOC Homepage 1.9k
    - Turf Removal 1k
    - Residential Rebates 911
    - Board Meetings 400
    - Careers 389
- Social Media (August 3 – August 29)
  According to Hootsuite – the global leader in social media management –a good engagement rate is between 1% to 5%.
  For this period, MWDOC's engagement rate is at 19.70%
  - 43,375 Post reach (number of people)
  - 8,544 Post engagement (actions taken – likes, shares, etc.)

LEGISLATIVE AFFAIRS

Governmental Affairs Staff:

- Participated in the CSDA Legislative Committee meeting
- Met with staff from Congresswoman Michelle Steel's office and provided an update on federal priorities

- Met with staff from Congresswoman Katie Porter's office and provided an update on federal priorities
- Participated in the CCEEB Water, Chemistry, and Waste Project meeting
- Participated in the Southern California Water Coalition Legislative Task Force Committee meeting
- Met with Chris Palmer of CSDA to discuss their legislative priorities
- Participated in the ACWA Region 10 State Legislative Committee meeting prep call
- Attended the CSDA Conference in Monterey

WATER USE EFFICIENCY

ALLIANCE FOR WATER EFFICIENCY (AWE) WATER EFFICIENCY RESEARCH COMMITTEE (WERC) MEETING

On August 8, Rachel Waite participated in the AWE WERC meeting, which was attended by various agencies across the United States and Canada. Topics on the agenda included:

- Debrief from the 1st Annual Water Efficiency and Conservation Symposium
- Resource Library Update Project
- CalWEP Research Updates
- Evaluation Measurement & Verification study update
- Committee Member Research Activity Updates

The next meeting is scheduled for Tuesday October 10.

ORANGE COUNTY DATA ACQUISITION PARTNERSHIP (OCDAP) STEERING AND TECHNICAL ADVISORY COMMITTEE (STAC)

On August 8, Rachel W. attended the OCDAP STAC. The working group collaborates on and organizes a regional effort to cost share the acquisition of high-resolution aerial imagery and related products. Topics on the agenda included:

- Consent Calendar
- Cycle 2 Deliverables Feedback
- Extension of Cycle 1 ConnectExplorer
- Discussion on Cycle 3 RFP and Membership Costs
- OCDAP Data Sharing/Efforts/Projects Underway and Cycle Derived Products
- OC GIS User Group Update

The next meeting is scheduled for September 12.

ORANGE COUNTY SANITATION DISTRICT TOUR

On August 9, Water Use Efficiency and Water Loss Control staff attended a tour of the Orange County Sanitation District. Staff learned about the importance of wastewater treatment in protecting public health and the environment.

ALISO CREEK WATERSHED FUNDING WORKSHOP

On August 9, Rachel W. joined the Aliso Creek Watershed Funding Workshop as a panelist. The Workshop goal was to highlight funding opportunities relevant to the Collaboration group, gain insights from seasoned funding collaborators on how to secure funding, enhance the Collaboration Group framework to support funding collaboration during future meetings, and foster collaboration around potential funding opportunities.

METROPOLITAN WATER USE EFFICIENCY WORKGROUP

On August 17, Joe Berg, Rachel Davis, Rachel W., Beth Fahl, Sam Fetter, and Tina Fann attended the Metropolitan Water Use Efficiency Workgroup meeting. Items on the agenda included:

- MWD Board Meeting Updates
- External Affairs Update
- MWD Conservation Program Updates
    - One Water Awards
    - Member Agency Administered Program
- Alliance for Water Efficiency Symposium Recap
- Member Agency Roundtable

The next meeting is scheduled for September 21.

DROPLET ONBOARDING

On August 21-22, Tina, Rachel W., Sam, and Beth met with staff from Droplet Technologies, the vendor for the Turf Removal Rebate Program and Spray-to-Drip Rebate Program website. Droplet Technologies is transitioning the website to a new platform to improve user experience. The team reviewed current program configurations and discussed what changes needed to be made. A second meeting at a date to be determined will be held to discuss additional features of the new website.

PROJECT AGREEMENT (PA) 22 ADVISORY WORKGROUP

On August 21, Rachel W. joined the PA 22 Advisory Workgroup, hosted by the Santa Ana Watershed Project Authority. Topics on the agenda included:

- Prop 1 Enhanced Decision Support Tool Update
- SARCCUP Water Budget Assistance

The next meeting is scheduled for September 18.

ORANGE COUNTY WATER DISTRICT (OCWD) GROUND WATER REPLENISHMENT SYSTEM (GWRS) TOUR

On August 23, Water Use Efficiency and Water Loss Control staff attended a tour of OCWD's GWRS. Staff learned about the role that the GWRS plays for potable water in Orange County and the processes that are needed to achieve it.

DEDICATED IRRIGATION METER (DIM) LANDSCAPE AREA MEASUREMENTS (LAM) PROGRAM

On August 29 Rachel W. met with staff from City of Tustin and project consultant NV5, to discuss the review of special landscapes areas (SLA) identified as part of the DIM LAM Program.

On August 30, an SLA meeting took place with staff from Trabuco Canyon Water District and NV5. On September 11, an SLA meeting took place with staff from South Coast Water District and NV5.

Follow-up meetings will continue as needed.

CALIFORNIA WATER EFFICIENCY PARTNERSHIP (CALWEP) FALL PLENARY MEETING

On August 31, Joe attended the CalWEP Fall Plenary meeting, with Beth, Rachel W., Sam, and Tina participating via Zoom. Agenda items included:

- Welcome and Opening Remarks
- Host Presentation
- CalWEP Updates
- What's New at the Alliance
- Member Spotlight: InPipe Energy
- Water Efficiency's Role in Meeting CA's Climate Goals
- Save Our Water Updates
- USBR: Standard Criteria for Water Management Plans
- DWR and SWRCB Joint Presentation: Reporting Requirements for Making Conservation a Way of Life
- Workshops

The Winter Plenary is scheduled for December 13.

ACWA Water Use Efficiency Working Group Meeting: Methodologies and Variances

On September 5, Joe and Sam joined the ACWA Water Use Efficiency working group focused on the Conservation Framework methodologies and variances. Discussion focused on the newly released standards proposed by the State Water Resources

Control Board. A collaborative effort was made to understand nuances in the proposed regulations and strategize on a coordinated effort to submit comments.

Meetings are scheduled weekly, as needed.

METROPOLITAN WATER USE EFFICIENCY (WUE) PROGRAM ADVISORY COMMITTEE (PAC)

On September 6, Rachel W. and Beth joined the Metropolitan WUE PAC. Topics on the agenda included:

- Multi-Family Flow Monitoring and Leak Detection Devices
- Member Agency Administered Program Flex Funding Category
- Devices/Technologies Roundtable
    - Flow Sensors
    - Master Valves
    - Residential Pressure Regulation

The next meeting is tentatively scheduled for December 6.

ACWA WATER USE EFFICIENCY WORKGROUP MEETING: OUTDOOR STANDARD

On September 6 and 11, Rachel W. attended the ACWA Water Use Efficiency working group focused on the Conservation Framework outdoor standard. Discussion focused on the newly released standards proposed by the State Water Resources Control Board. A collaborative effort was made to understand nuances in the proposed regulations and strategize on a coordinated effort to submit comments.

Meetings are scheduled weekly, as needed.

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MUNICIPAL WATER DISTRICT OF ORANGE COUNTY

Fiscal Year 2023-24

Sole Source Procurement Justification for Projects under $25,000*

A. Supplier Information/Name of Company and Prime Contact at the Supplier and at MWDOC: Esri Inc.

B. Contract awards to Supplier over prior 36-months: $2,936.44

C. Product(s) or Service(s) to be provided and Deliverables:
Geographic Information Systems (GIS) Licensing for use by the Water Loss Control, Water Use Efficiency, WEROC and Engineering departments. These licenses will enable staff to access GIS software to view member agency distribution system maps, track leak locations, perform spatial analysis on customer rebate participation, and conduct damage assessments during emergencies. The licenses include technical support. Costs will not exceed $6,000. The license term will expire 9/8/2024.

D. Justification Definition - No other alternate with similar services, compatibility with existing member agency maps.

E. Narrative Explanation:
Esri ArcGIS is the preeminent GIS software and the standard in their field. It is widely used amongst water utilities and is recognized as the industry standard. MWDOC has been using this software since 2019 with the inception of the Water Loss Control Shared Services. Since that time the need for GIS services has grown with the hiring of additional leak detection technicians and the inclusion of other departments.

F. Budget Line Item Reference & Amount:
7430-2000-45
7430-2000-70
7440-2010-25

G. Core or Choice designation:
Core: $3,695
Choice: $2,305

* Projects over $25,000 must go to a Committee of the Board.
** Possible justifications include but are not limited to: Only qualified bidder; Proprietary item; Urgent necessity; Bid process did not produce competitors; Governmental agency, association or Utility; Prior phase of professional services contract completed successfully by same Consultant; and Special technical expertise by Consultant for tasks desired.

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H. Signature/Approvals:

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Requestor Date

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Interim General Manager Date

* Projects over $25,000 must go to a Committee of the Board.
** Possible justifications include but are not limited to: Only qualified bidder; Proprietary item; Urgent necessity; Bid process did not produce competitors; Governmental agency, association or Utility; Prior phase of professional services contract completed successfully by same Consultant; and Special technical expertise by Consultant for tasks desired.

ITEM NO. 10

INFORMATION CALENDAR

MWDOC GENERAL INFORMATION ITEMS

MWDOC BOARD OF DIRECTORS

- Al Nederhood
- Larry D. Dick
- Bob McVicker
- Karl W. Seckel
- Randall Crane
- Jeffery M. Thomas
- Megan Yoo Schneider

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