I hereby certify that the following agenda was posted at least 72 hours prior to the time of the meeting so noticed below at 24251 Los Alisos Boulevard, Lake Forest, California.

DENNIS P. CAFFERTY, Secretary
of the El Toro Water District and
the Board of Directors thereof

AGENDA

EL TORO WATER DISTRICT

REGULAR MEETING OF THE BOARD OF DIRECTORS

ENGINEERING COMMITTEE MEETING AND FINANCE AND INSURANCE COMMITTEE MEETING

September 23, 2024

7:30 a.m.

BOARDROOM, DISTRICT OFFICE
24251 LOS ALISOS BLVD., LAKE FOREST, CA 92630

This meeting will be held in person. As a convenience for the public, the meeting may also be accessed by Zoom and will be available by either computer or telephone audio as indicated below. Because this is an in-person meeting and the virtual 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.

Members of the public who wish to comment on any item within the jurisdiction of the District or on any item on the agenda, may attend the meeting in person at the District's office or may observe and address the Meeting by joining at this link: https://us02web.zoom.us/j/88103415634 (Meeting ID: 881 0341 5634).

Members of the public who wish only to listen to the telephonic meeting may dial in at the following numbers (669) 900-6833 or (346) 248-7799 with the same Meeting ID noted above. Please be advised the Meeting is being recorded.

CALL TO ORDER – President Monin

PLEDGE OF ALLEGIANCE – Vice President Gaskins

ROLL CALL (Determination of a Quorum)

ORAL COMMUNICATIONS/PUBLIC COMMENTS

Members of the public may address the Board at this time or they may reserve this opportunity with regard to an item on the agenda until said item is discussed by the Board. Comments on other items will be heard at the times set aside for "COMMENTS REGARDING NON-AGENDA ENGINEERING COMMITTEE ITEMS" or for "COMMENTS REGARDING NON-AGENDA FIC ITEMS." The public may identify themselves when called on and limit their comments to three minutes.

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 of those members present.)

1. Consider Board Member's Request for Remote Participation (AB 2449)

FINANCE AND INSURANCE COMMITTEE MEETING

CALL MEETING TO ORDER – Director Havens

2. Consent Calendar (Reference Material Included)

(All matters under the Consent Calendar will be approved by one motion unless a Board member or a member of the public requests separate action or discussion on a specific item)

a. Consider approving the minutes of the August 19, 2024 Finance and Insurance Committee meeting (Minutes included).

Recommended Action: Staff recommends that the Board of Directors approve the above Consent Calendar.

FINANCIAL ACTION ITEMS

3. **Financial Package - Authorization to Approve Payment of Bills for the Month Ending September 23, 2024 and Receive and File Financial Statements as of August 31, 2024** (Reference Material Included)

The Board will consider approving Bills for Consideration dated September 23, 2024 and Receive and File Financial Statements as of August 31, 2024.

Recommended Action: Staff recommends that the Board 1) approve, ratify and confirm payment of those bills as set forth in the Payment Summary for the month ending September 23, 2024, and 2) receive and file the Financial Statements for the month ending August 31, 2024.

COMMENTS REGARDING NON-AGENDA FIC ITEMS

CLOSE FINANCE AND INSURANCE COMMITTEE MEETING

ENGINEERING COMMITTEE

CALL MEETING TO ORDER – Director Freshley

4. Consent Calendar

(All matters under the Consent Calendar will be approved by one motion unless a Board member or a member of the public requests separate action or discussion on a specific item)

a. Consider approving the minutes of the August 19, 2024 Engineering Committee meeting. (Minutes Included).

Recommended Action: Staff recommends that the Board of Directors approve the above consent calendar.

ENGINEERING ACTION ITEMS

5. Aliso Creek Lift Station Rehabilitation Project – CEQA Compliance
(Reference Material Included)

Staff will review and comment on proposals received from environmental consultants to provide CEQA compliance services for the Aliso Creek Lift Station Rehabilitation Project.

Recommended Action: Staff recommends that the Board of Directors authorize the District's General Manager to enter into a contract with Rincon Consultants, Inc. in the amount of $121,564.30 for CEQA compliance associated with the Aliso Creek Lift Station Rehabilitation Project. Staff further recommends that the Board authorize the General Manager to fund the project costs from the District's Capital Reserves in accordance with the District's adopted Capital Reserve Policy.

ENGINEERING INFORMATION ITEMS

6. El Toro Water District Operations Report (Reference Material Included)

Staff will review and comment on the El Toro Water District Operations Report.

7. El Toro Water District Capital Project Status Report
(Reference Material Included)

Staff will review and comment on the El Toro Water District Capital Project Status Report.

8. <u>Engineering Items Discussed at Various Conferences and Meetings</u>

The Committee will discuss any pertinent Engineering items discussed at Conferences.

COMMENTS REGARDING NON-AGENDA ENGINEERING COMMITTEE ITEMS

CLOSE ENGINEERING COMMITTEE MEETING

ATTORNEY REPORT

CLOSED SESSION

At this time the Board will go into Closed Session as follows:

1. Pursuant to Government Code Section 54956.8 to consult with the District's designated negotiator (Dennis P. Cafferty, General Manager) with respect to the terms and conditions pertaining to the proposed exchange and/or transfer of ownership in the Joint Regional Treatment Plant presently owned and operated by the South Orange County Wastewater Authority (in which the District is a member agency) to the Moulton Niguel Water District and the assignment of capacity in the Effluent Transmission Main and Aliso Creek Ocean Outfall from Moulton Niguel Water District to El Toro Water District.

REGULAR SESSION

REPORT ON CLOSED SESSION (Legal Counsel)

Mr. Granito will provide an oral report on the Closed Session.

ADJOURNMENT

The agenda material for this meeting is available to the public at the District's Administrative Office, which is located at 24251 Los Alisos Blvd., Lake Forest, Ca. 92630. If any additional material related to an open session agenda item is distributed to all or a majority of the board of directors after this agenda is posted, such material will be made available for immediate public inspection at the same location.

<u>Request for Disability-Related Modifications or Accommodations</u>

If you require any disability-related accommodation, including auxiliary aids or services, in order to participate in this public meeting, please telephone the District's Recording Secretary, Marisol Melendez at (949) 837-7050, extension 225 at least forty-eight (48) hours prior to said meeting. If you prefer, your request may be submitted in writing to El Toro Water District, P.O. Box 4000, Laguna Hills, California 92654, Attention: Marisol Melendez.

MINUTES OF THE REGULAR MEETING OF THE BOARD OF DIRECTORS
AND THE
FINANCE & INSURANCE COMMITTEE MEETING

August 19, 2024

At approximately 7:34 a.m. President Monin called the regular meeting to order.

Director Havens led the Pledge of Allegiance to the flag.

Committee Members MARK MONIN, MIKE GASKINS, KAY HAVENS, KATHRYN FRESHLEY, and FRED ADJARIAN participated.

Also participating were DENNIS P. CAFFERTY, General Manager, VISHAV SHARMA, CFO, JUDY CIMORELL, Director of Human Resources, HANNAH FORD, Director of Engineering, SCOTT HOPKINS, Operations Superintendent, GILBERT J. GRANITO, General Counsel, MIKE MIAZGA, IT Manager (Zoom), VICKI TANIOUS, Senior Accountant/Payroll, JUDY WILSON, Accounting Supervisor, ABEL ESTRADA, Billing & Customer Service Supervisor, OSCAR HERNANDEZ, Accounting Technician, RICHARD BABBE, PFM Managing Consultant (Zoom), CAROL MOORE, Laguna Woods City Council Member (Zoom), and MARISOL MELENDEZ, Recording Secretary.

Determination of a Quorum

Roll Call:

Director Adjarian	present
Director Freshley	present
Director Havens	present
Vice President Gaskins	present
President Monin	present

Five Board members are present at the meeting and therefore a quorum has been determined.

Oral Communications/Public Comment

There were no comments.

Items Too Late to be Agendized

President Monin asked if there were any items received too late to be agendized. Mr. Cafferty replied no.

Finance and Insurance Committee Meeting

At approximately 7:35 a.m. Director Havens called the Finance and Insurance Committee meeting to order.

Consent Calendar

Director Havens asked for a Motion.

Motion: Director Adjarian made a motion, seconded by Director Freshley to approve the Consent Calendar.

Roll Call Vote:

Director Adjarian	aye
Director Freshley	aye
Director Havens	aye
Vice President Gaskins	aye
President Monin	aye

Financial Information Items

California Asset Management Program (CAMP)

Mr. Babbe reported that the District's portfolio is both safe and liquid, with strong performance. He noted that current reports are somewhat outdated due to the changing interest rate environment. Mr. Babbe further stated inflation remains higher than the Federal Reserve (Fed) prefers, although core inflation measures have been trending downward.

Mr. Babbe reported that the July Labor Market report introduced volatility in early August. He added that the report showed 114k new jobs, significantly fewer than the expected 185k and the weaker labor market suggests the Fed might need to address broader economic concerns rather than inflation. Mr. Babbe reported that the national unemployment rate increased from 4.1% to 4.3%, California's rate stands at 5.2%, and Orange County's rate is 4% and despite some positive aspects, recent layoffs in tech and fast food industries raise concerns. He further stated that the graph (page 16) illustrates the number of jobs available per unemployed person; the Fed prefers this ratio to be around one to indicate a balanced market and while there are some weaknesses, the labor market is not wholly problematic.

Mr. Babbe stated wage inflation is decreasing, indicating a rebalancing labor market and reducing the need for employers to offer higher wages to attract workers.

Mr. Babbe stated that the GDP graph for CPI and wages suggests consumer spending power is strong, driving the economy. He added that retail sales are projected to remain stable, and July's report shows continued consumer spending, indicating a consumer-driven economy in the short term.

Mr. Babbe reported that the Fed's updated June projection suggest stable economic expectations for 2024 and if trends continue, interest rates are likely to be lower by year-end, barring unusual events.

Mr. Babbe stated the portfolio shows solid overall performance and sector allocation is in compliance. He added that recent activity includes $3 million in new long-term investments with an average yield slightly below 5%. He further stated that the District seems to have been very strategic with their activity to lock in yields.

President Monin inquired about who manages CAMP Term. Mr. Babbe clarified that PFM Asset Management is the investment advisor for both CAMP and CAMP Term. President Monin expressed concern over the large amount managed by PFM Asset Management. Mr. Babbe affirmed that it is up to the District to determine what is best and ensure PFM aligns with its needs.

Mr. Cafferty stated that Mr. Sharma and himself plan to schedule a meeting this week with Mr. Babbe to discuss future investment strategies.

Mr. Babbe stated that the total return performance for the past year is providing good yields relative to the benchmark. He added that the goal is to best position the portfolios for a changing interest rate environment with lower interest rates while making sure there is ample liquidity to fund District projects and expenses.

President Monin asked if there are any policies limiting investment durations. Mr. Sharma responded that both state and District investment policies limit durations to 5 years.

President Monin asked what the duration period is for the U.S. Treasury on issuer diversification. Mr. Babbe stated that the maturity dates vary and he is unable to provide durations for all issuers offhand. President Monin requested a follow up with this information.

Mr. Cafferty stated he will ensure follow-up on the following: average maturity of Treasury investments, discussion regarding automobile/motorcycle and Japan-based securities, overall durations of all fixed income investments, and strategy plans for CAMP and LAIF durations.

Mr. Babbe exited the zoom meeting at approximately 8:23 a.m.

Government Finance Officers Association Award (GFOA)

Mr. Cafferty stated the District recently received notice of receipt of the GFOA Award for excellence in financial reporting and acknowledged the large amount of collaborative effort it took from District Accounting staff.

Mr. Sharma stated that this last year presented unique challenges due to the Springbrook software implementation and recognized accounting/finance staff for their hard work, overtime, and overall efforts.

The Board members congratulated finance staff for the achievement given the major software changes and transitions over the last few years.

Financial Action Items

Financial Package - Authorization to Approve Payment of Bills for the Month Ending August 19, 2024 and Receive and File Financial Statements as of July 31, 2024

There were no comments.

Director Havens asked for a Motion.

Motion: Director Adjarian made a motion, seconded by President Monin to 1) approve, ratify and confirm payment of those bills as set forth in the Payment Summary for the month ending August 19, 2024, and 2) receive and file the Financial Statements for the month ending July 31, 2024.

Roll Call Vote:

Director Adjarian	aye
Director Freshley	aye
Director Havens	aye
Vice President Gaskins	aye
President Monin	aye

Comments Regarding Non-Agenda FIC Items

There were no comments.

Adjournment

There being no further business the Finance and Insurance Committee meeting was closed at approximately 8:28 a.m.

At this time, Ms. Wilson, Ms. Tanious, Mr. Estrada, and Mr. Hernandez left the meeting.

Respectfully submitted

_____
MARISOL MELENDEZ
Recording Secretary

APPROVED:

_____
MARK MONIN, President
of the El Toro Water District and the
Board of Directors thereof

_____
DENNIS P. CAFFERTY, Secretary
of the El Toro Water District and the
Board of Directors thereof

Agenda Item No. 3

STAFF REPORT

To: **Board of Directors** **Meeting Date: September 23, 2024**

From: **Vishav Sharma, Chief Financial Officer**

Subject: **August 2024 bills for Approval and Monthly Financial Report**

Attached for Board approval is the payment summary report for the month of August, 2024 which presents checks that were paid during the month that exceeded $50,000 in value. Also attached is the monthly financial report for period ending August 31, 2024.

Presented below for your consideration are some notes about the financial report:

- The Statement of Net Position increased in August compared to July as the District's assets increased more as compared to the District's Liabilities. The District's accounts receivables grew, while accounts payable balance reduced. The District also incurred construction and water purchase expenses during the month of August. These activities affected the assets and liabilities of the District. Please note that this report contains preliminary numbers.
- The Statement of Revenues, Expenses, and Changes in Net Position indicates the District currently has a year to date positive Change in Net Position of $2,206,182 at the end of August.
- The Cash and Investments report shows that the District has a total balance of $23,716,256 in cash and cash equivalents at the end of August 2024. Out of this $93,562 are restricted for certain capital projects. The balance of $23,622,694 is unrestricted and available for the district's operations.
- The total disbursement including payroll expanse for the month of August 2024 is $3,007,952.35. These disbursements include eight checks greater than $50,000, with the total equal to $1,959,632.49. These expenses exceed the General Manager's singing authority and Staff recommends the Board approve these checks. Payroll expenses of $638,552.53 occurred during the month of August 2024. District employees were reimbursed $4,251.29 for travel, education, meals, supplies and certification related expenses; and Directors were reimbursed $1,169.03 in travel expenses.

Attachment 1

Payment Summary for the Month ending August 31, 2024

EL TORO WATER DISTRICT
Payment Summary
For the month ending August 31, 2024

CHECK NUMBER	PAYMENT DATE	VENDOR NAME		PAYMENT AMOUNT
11707	08/07/2024	Municipal Water District of Orange County		488,103.12
11719	08/13/2024	South Orange County Wastewater Authority		432,382.00
11801	08/29/2024	Moulton Niguel Water District		270,791.82
11784	08/16/2024	Southern California Edison Company		212,438.49
11687	08/01/2024	Municipal Water District of Orange County		204,927.00
11760	08/22/2024	ACWA JPIA		153,498.88
11785	08/29/2024	ACWA JPIA		138,142.78
11724	08/16/2024	Kingmen Construction, Inc.		59,348.40
		TOTAL CHECKS OVER $50,000	**$**	**1,959,632.49**
		TOTAL CHECKS IN REGISTER	**$**	**2,363,182.57**

DEBIT TRANSFERS

	08/09/2024	PAYROLL DIRECT DEPOSIT		174,110.32
	08/09/2024	FEDERAL DEPOSIT LIABILITY		36,856.52
	08/09/2024	SDI & STATE TAX		15,683.88
	08/09/2024	WAGE GARNISHMENTS		190.00
	08/09/2024	EMPOWER (401K)		68,970.18
	08/09/2024	EMPOWER (457)		19,980.59
	08/09/2024	HEALTH SAVINGS ACCOUNT		71.15
	08/15/2024	PAYROLL BOARD OF DIRECTOR		5,621.40
	08/15/2024	SS, MEDICARE, SDI & STATE TAX		936.79
	08/15/2024	EMPOWER (457)		2,528.36
	08/15/2024	HEALTH SAVINGS ACCOUNT		404.00
	08/23/2024	PAYROLL DIRECT DEPOSIT		171,610.25
	08/23/2024	FEDERAL DEPOSIT LIABILITY		36,097.63
	08/23/2024	SDI & STATE TAX		15,833.42
	08/23/2024	WAGE GARNISHMENTS		190.00
	08/23/2024	EMPOWER (401K)		68,795.88
	08/23/2024	EMPOWER (457)		20,426.01
	08/23/2024	HEALTH SAVINGS ACCOUNT		246.15
		Payroll Expanse		638,552.53
	08/31/2024	BANK FEES		6,217.25
		TOTAL INTERBANK WIRES / DEBIT TRANSFERS	**$**	**644,769.78**
		TOTAL DISBURSEMENTS	**$**	**3,007,952.35**

REIMBURSEMENTS TO ETWD EMPLOYEES

CHECK NUMBER	PAYMENT DATE	PAYEE (DESCRIPTION)	PAYMENT AMOUNT
11800	08/29/2024	Marc Avila, Jr. (Travel - Tri-State Conference & Training Course)	823.81
11791	08/29/2024	Chris Goodchild (Travel - Tri-State Conference)	676.31
11796	08/29/2024	Edward Peterson (Travel - Tri-State Conference)	533.10
11795	08/29/2024	David Hayden (Travel - Tri-State Conference)	522.06
11805	08/29/2024	Robert Hazzard (Travel - Tri-State Conference)	411.77
11770	08/22/2024	Marc Avila (Training Course)	349.99
11811	08/29/2024	Vu Chu (California Water Data Summit)	204.90
11794	08/29/2024	Daniel Orozco (Travel - Tri-State Conference)	197.32
11790	08/29/2024	Cheyne Madero (Travel - Tri-State Conference)	131.37
11808	08/29/2024	Steve Sanchez (Travel - Tri-State Conference)	130.10
11768	08/22/2024	Jeff Webster (Work Boots)	123.82
11809	08/29/2024	Steve Sanchez (Travel - Tri-State Conference)	86.74
11720	08/13/2024	Vincent Coppola (Certification)	60.00
		TOTAL CHECKS TO EMPLOYEES	**4,251.29**

REINBURSEMENTS TO ETWD DIRECTORS

CHECK NUMBER	PAYMENT DATE	PAYEE (DESCRIPTION)	PAYMENT AMOUNT
11745	08/19/2024	Mark Monin (Travel Expenses)	708.17
11746	08/19/2024	Michael Gaskins (Travel Expenses)	421.06
11743	08/19/2024	Kathryn Freshley (Travel Expenses)	39.80
		TOTAL CHECKS TO DIRECTORS	**1,169.03**

Attachment 2

Statement of Net Position for the August 31, 2024

El Toro Water District
Interim Statement of Net Position for the Month of August, 2024

	6/30/2023 Interim	7/31/2024 Interim	8/31/2024 Interim	Change
Assets				
Current Assets				
Cash & Cash Equivalents	10,138,838	17,772,386	15,674,418	(2,097,967)
Investments	16,688,703	5,408,150	8,038,863	2,630,713
Accounts Receivable	6,342,616	4,429,230	5,490,432	1,061,201
Materials & Supply Inventory	260,700	765,664	683,614	(82,050)
Prepaid Expenses	200,587	291,290	481,258	189,968
Restricted - Cash & Cash Equivalents	4,386,674	2,935	2,975	39
Current Assets - Sub-total	38,018,118	28,669,655	30,371,559	1,701,904
Non-Current Assets				
Lease Receivable	361,011	361,011	167,134	(193,877)
Land & Easements	7,451,585	7,451,585	7,451,585	-
Capacity Rights	342,382	342,382	342,382	-
Capital Assets				
Water System	37,781,450	37,781,450	61,492,512	23,711,062
Wastewater System	57,334,500	57,334,500	61,524,968	4,190,469
Recycled System	55,454,389	55,454,389	55,454,389	-
Combined Assets	15,919,853	15,798,380	15,905,406	107,026
Construction in Progress	24,581,587	35,108,217	5,160,445	(29,947,773)
Accumulated Depreciation	(92,651,512)	(96,714,068)	(97,543,568)	(829,501)
Non-Current Assets - Sub-total	106,575,244	112,917,846	109,955,252	(2,962,594)
Total Assets	**144,593,362**	**141,587,501**	**140,326,811**	**(1,260,690)**
Deferred Outflows of Resources				
OPEB Deferred Outflow of Resources	3,493,769	3,493,769	2,480,241	(1,013,528)
Liabilities				
Current Liabilities				
Accounts Payable & Accrued Expenses	4,797,270	1,992,758	874,717	(1,118,041)
Accrued Salaries & Related Payables	150,618	15,147	152,708	137,560
Customer Deposits	49,231	14,250	13,550	(700)
Accrued Interest Payable	162,721	519,052	504,887	(14,164)
Long Term Liabilities - Due in One Year				-
Compensated Absences	182,171	182,171	236,316	54,145
Loans Payable	1,846,288	-	1,924,372	1,924,372
Current Liabilities - Sub-total	7,188,299	2,723,378	3,706,549	983,171
Non-Current Liabilities				
Compensated Absences	1,431,790	1,431,791	1,456,919	25,128
Other Post-Employment Benefits Liability	11,050,192	11,050,192	11,256,633	206,441
Loans Payable	53,316,865	52,812,435	50,751,674	(2,060,761)
Non-Current Liabilities - Sub-total	65,798,847	65,294,418	63,465,226	(1,829,192)
Total Liablities	**72,987,146**	**68,017,796**	**67,171,775**	**(846,021)**
Deferred Inflows of Resources				
Deferred Amounts from Leases	583,336	583,336	335,280	(248,056)
Deferred Amounts from OPEB	9,124,466	9,124,468	7,701,632	(1,422,836)
Total Deferred Inflows of Resources	9,707,802	9,707,804	8,036,912	(1,670,892)
Net Position				
Net Investment in Capital Assets	56,533,904	60,105,411	57,279,206	(2,826,205)
Restricted - Capital Projects	2,895	2,895	2,895	-
Restricted - Debt Service	-	-	-	-
Unrestricted	8,855,384	7,247,365	10,316,264	3,068,899
Total Net Position	**65,392,183**	**67,355,670**	**67,598,365**	**242,695**

Attachment 3

Statement of Revenues, Expenses, and Changes in Net Position
for August 31, 2024

Statement of Revenues, Expenses, and Changes in Net Position for the Month of August, 2024

	District		Water System		Wastewater System		Recycled System		Capital Improvments	
	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
Operating Revenues										
Commodity Supply Charges	$ 12,336,195	$ 2,743,353	$ 10,710,144	$ 2,118,564	$ -	$ -	$ 1,626,051	$ 624,789	$ -	$ -
Service Provision Charges	15,020,423	2,506,041	4,870,491	796,527	9,684,429	1,631,681	465,503	77,833	-	-
Capital Facilities Charge	5,009,153	788,415	-	-	-	-	-	-	5,009,153	788,415
Charges for Services	125,000	-	125,000	-	-	-	-	-	-	-
Miscellaneous Operating Income	45,900	(51,312)	31,000	1,501	14,900	(52,813)	-	-	-	-
Grants, Rebates, Reimbursements	281,125	58,269	-	1,395	5,300	10,300	275,825	41,343	-	5,231
Total Operating Revenues	32,817,795	6,044,767	15,736,635	2,917,986	9,704,629	1,589,169	2,367,379	743,966	5,009,153	793,646
Operating Expenses										
General & Administrative	5,729,652	742,623	2,293,818	313,846	2,977,629	371,173	458,205	57,605	-	-
Operations & Maintenance	22,581,759	2,495,936	13,849,372	1,004,966	7,170,785	1,245,736	1,561,603	245,234	-	-
Operating Capital Expenses	335,026	-	-	-	-	-	-	-	335,026	-
Other Operating Expenses	350,000	81,012	140,000	32,405	182,000	42,126	28,000	6,481	-	-
Depreciation & Amortization	4,906,900	758,542	-	-	-	-	-	-	4,906,900	758,542
Total Operating Expenses	33,903,337	4,078,114	16,283,190	1,351,217	10,330,414	1,659,035	2,047,808	309,320	5,241,926	758,542
Operating Income/(Loss)	(1,085,542)	1,966,653	(546,555)	1,566,769	(625,785)	(69,866)	319,571	434,646	(232,773)	35,104
Non-operating Revenues										
Property Taxes	1,320,800	220,133	528,320	88,053	686,816	114,469	105,664	17,611	-	-
Investment Earnings	550,000	234,834	275,000	101,919	275,000	132,913	-	-	-	3
Miscellaneous Revenue	306,400	42,575	296,000	42,276	10,400	273	-	26	-	-
Interest Expense	(2,107,805)	(259,158)	-	-	-	-	-	-	(2,107,805)	(259,158)
Net Non-Operating Revenues	69,395	238,385	1,099,320	232,248	972,216	247,655	105,664	17,637	(2,107,805)	(259,155)
Income/(Loss) before Contributions & Transfers	(1,016,147)	2,205,038	552,765	1,799,017	346,431	177,789	425,235	452,282	(2,340,578)	(224,051)
Transfers										
Transfers In	1,879,100	313,183	-	-	-	-	-	-	1,879,100	313,183
Transfers Out	(1,809,100)	(313,183)	(881,880)	(146,980)	-	-	(927,220)	(166,203)	-	-
Net Transfers	70,000	-	(881,880)	(146,980)	-	-	(927,220)	(166,203)	1,879,100	313,183
Capital Contributions										
Donations & Contributions	-	1,144	-	-	-	-	-	-	-	1,144
Total Capital Contributions	-	1,144	-	-	-	-	-	-	-	1,144
Change in Net Position	(946,147)	2,206,182	(329,115)	1,652,037	346,431	177,789	(501,985)	286,079	(461,478)	90,276
Beginning Net Position	65,392,183	65,392,183								
Ending Net Position	$ 64,446,036	$ 67,598,365								

Attachment 4

Summary of Revenues and Expenses for the August 31, 2024

Summary of Revenues and Expenses for the Month of August, 2024

Account - Description	Month Actual	YTD Actual	2024-2025 Budgeted	Budget Remaining	% of Budget Remaining
Summary of Total District Revenues					
District Totals					
Commodity Supply Charges	1,521,370	2,743,353	12,336,195	9,592,842	77.8%
Service Charges	1,286,870	2,506,041	15,020,423	12,514,381	83.3%
Capital Facility Charges	460,468	788,415	5,009,153	4,220,738	84.3%
Charges for Services	-	-	125,000	125,000	100.0%
Miscellaneous Revenue	(41,486)	(8,737)	357,600	366,337	102.4%
Grants, Rebates, Reimbursements	35,161	58,269	275,825	217,556	78.9%
Property Taxes	110,067	220,133	1,320,800	1,100,667	83.3%
Investment Income	96,616	234,834	550,000	315,166	57.3%
Donations & Capital Contributions	1,144	1,144	-	(1,144)	N/A
Total Revenue	3,470,210	6,543,453	34,994,995	28,451,542	81.3%
Summary of Total District Expenses					
Salary Expenses					
Directors Fees	9,198	19,053	131,400	112,347	85.5%
Exempt Salaries	120,579	246,094	1,344,300	1,098,206	81.7%
Non-exempt Salaries	385,540	845,312	5,375,400	4,530,088	84.3%
Other Salary Payments	-	-	218,600	218,600	100.0%
Overtime	35,272	70,747	290,400	219,653	75.6%
Overtime - On-call	6,720	13,440	81,900	68,460	83.6%
Stipends/Allowances	4,348	8,695	104,297	95,602	91.7%
Employee Service Awards	-	-	700	700	100.0%
Salary Expenses Sub-total	561,656	1,203,341	7,546,997	6,343,656	84.1%
Benefit Expenses					
Medical Insurance	89,019	278,621	1,133,800	855,179	75.4%
HSA Contributions	-	-	19,400	19,400	100.0%
Dental Insurance	7,834	23,832	85,400	61,568	72.1%
Vision Insurance	1,067	3,201	12,600	9,399	74.6%
Life Insurance	3,212	9,666	39,500	29,834	75.5%
Disability Insurance	3,763	11,761	41,300	29,539	71.5%
Long-term Care Insurance	900	1,592	25,800	24,208	93.8%
Workers Compensation Insurance	14,320	28,640	162,198	133,558	82.3%
State Unemployment Insurance	-	-	3,000	3,000	100.0%
401k Retirement Contributions	49,556	106,424	645,600	539,176	83.5%
401k Matching Contributions	33,566	72,246	276,200	203,954	73.8%
457b Matching Contributions	4,888	11,265	263,300	252,035	95.7%
Medicare Insurance	7,732	16,558	110,200	93,642	85.0%
FICA	303	678	9,600	8,922	92.9%
Benefit Expenses Sub-total	216,159	564,485	2,827,898	2,263,413	80.0%
Commodity Purchased for Resale					
Water Purchases - MWDOC	144,038	159,964	4,503,475	4,343,511	96.4%
Water Purchases - MWDOC Fixed	1,334	69,808	940,169	870,361	92.6%
Water Purchases - AMP/SAC	31	2,663	33,725	31,062	92.1%
Regional Water Supply Expenses	-	-	8,000	8,000	100.0%
Water Purchases - Baker WTP	111,024	222,048	3,176,250	2,954,202	93.0%
Water Purchases - Baker O&M	-	-	1,054,350	1,054,350	100.0%
Water Purch - Other Agencies	-	-	-	-	N/A
MWDOC Service Connect Charge	-	11,694	140,500	128,806	91.7%
Commodity Purchased for Resale Sub-total	256,427	466,177	9,856,469	9,390,291	95.3%

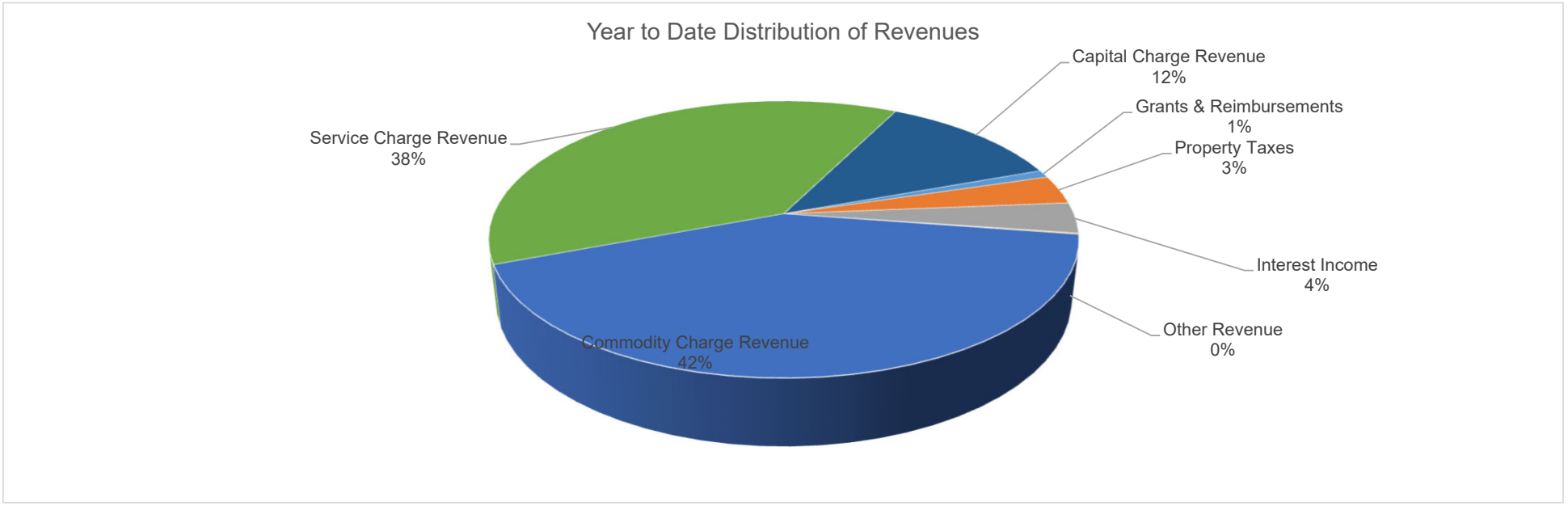
Summary of Revenues and Expenses for the Month of August, 2024

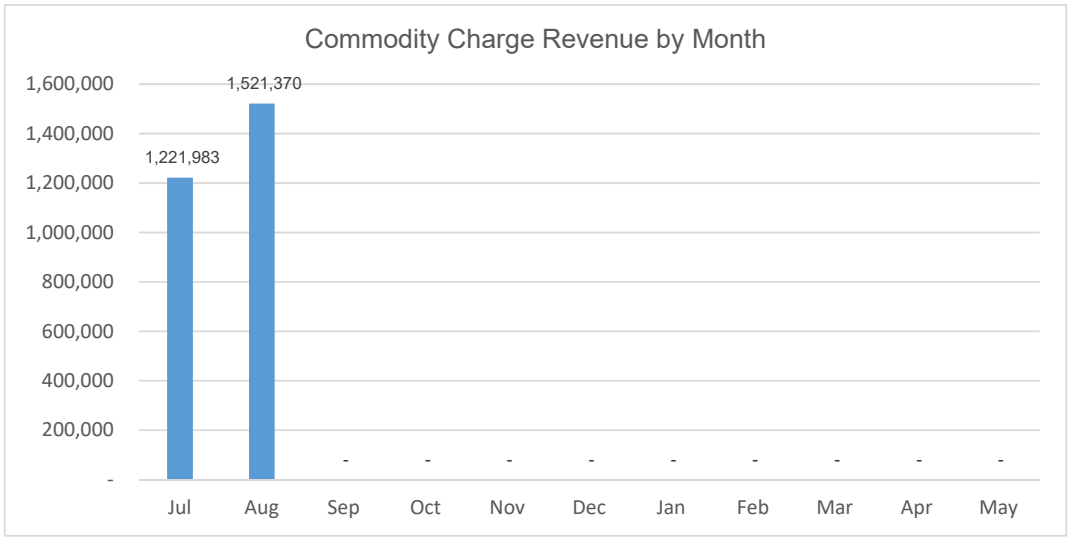
Account - Description	Month Actual	YTD Actual	2024-2025 Budgeted	Budget Remaining	% of Budget Remaining
Professional Development					
Education & Training	1,137	1,137	79,390	78,253	98.6%
Education/Training - Directors	-	-	-	-	N/A
Licenses & Certifications	60	60	3,560	3,500	98.3%
Dues & Memberships	4,323	8,767	125,650	116,883	93.0%
Dues & Memberships - Directors	-	-	-	-	N/A
Meetings & Conferences	605	605	27,900	27,295	97.8%
Meetings/Conferences-Directors	2,564	2,564	11,000	8,436	76.7%
Travel Reimbursement	3,915	3,915	39,400	35,485	90.1%
Travel Reimbursement-Directors	1,169	1,169	35,000	33,831	96.7%
Publications & Subscriptions	94	94	2,550	2,456	96.3%
Professional Development Sub-total	13,868	18,311	324,450	306,139	94.4%
Miscellaneous Expenses					
Employee Appreciation Expenses	-	-	500	500	100.0%
Internal/External Event Expenses	-	-	4,500	4,500	100.0%
Election Expense	-	-	40,000	40,000	100.0%
Reimbursable Repair Expense	-	-	-	-	N/A
Property Taxes	-	-	5,096	5,096	100.0%
Uncollectible Accounts	-	-	19,500	19,500	100.0%
NSFs & Miscellaneous Fees	-	-	100	100	100.0%
Refund Overcharges	-	-	3,104	3,104	100.0%
Damage/Repair Reimbursements	-	-	-	-	N/A
Miscellaneous Sub-total	-	-	72,800	72,800	100.0%
Sub Total - General and O&M Expanses	1,745,899	3,238,559	28,311,411	25,072,852	88.6%
Capital Improvement Expenses					
Water System Projects					
Supply/Storage Projects	-	-	27,618	27,618	N/A
Pumping Projects	-	-	-	-	N/A
Main/Service Line Projects	-	-	122,408	122,408	100.0%
Wastewater System Projects	-	-		-	N/A
Pumping Projects	-	-	10,000	10,000	100.0%
Wastewater Treatment Projects	3,828	3,828	15,000	11,172	74.5%
Main/Service Line Projects	-	-	-	-	N/A
Recycled System Projects	-			-	N/A
Pumping Projects	-	-	-	-	N/A
Tertiary Treatment Projects	-	-	-	-	N/A
Main/Service Line Projects	-	-	-	-	N/A
General Projects		-		-	N/A
Operating Equipment Purchases	-	-	-	-	N/A
Vehicle & Related Equipment Purchases	-	-	-	-	N/A
Technoloy Projects & Purchases	-	-	40,000	40,000	100.0%
Building & Structure Improvements	-	-	-	-	N/A
General Capital Projects	-	-	120,000	120,000	100.0%
Construction in Progress	-	(3,828)	-	(3,828)	N/A
Capital Improvement Expenses Sub-total	3,828	-	335,026	327,370	97.7%
Other Expenses					
Retiree Health Insurance	28,984	81,012	350,000	268,988	76.9%
Depreciation	409,875	758,542	4,906,900	4,148,358	84.5%
Debt Interest Expense	129,579	259,158	2,107,805	1,848,647	87.7%
Other Expenses Sub-total	568,438	1,098,712	7,364,705	6,265,993	85.1%
Total Expenses	2,318,165	4,337,272	36,011,142	31,666,214	87.9%
Change in Net Position	1,152,045	2,206,182	(1,016,147)		

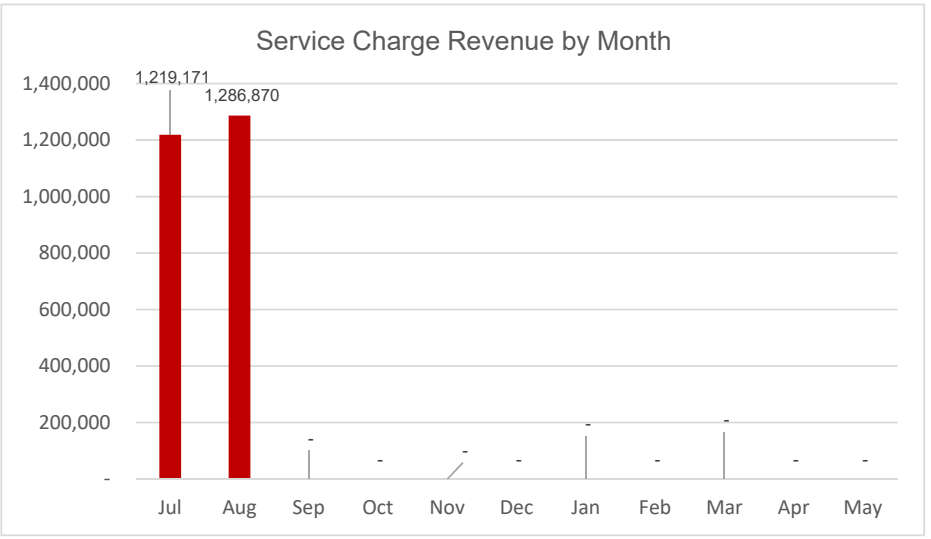
Attachment 5

Revenue and Expense Charts for August 31, 2024

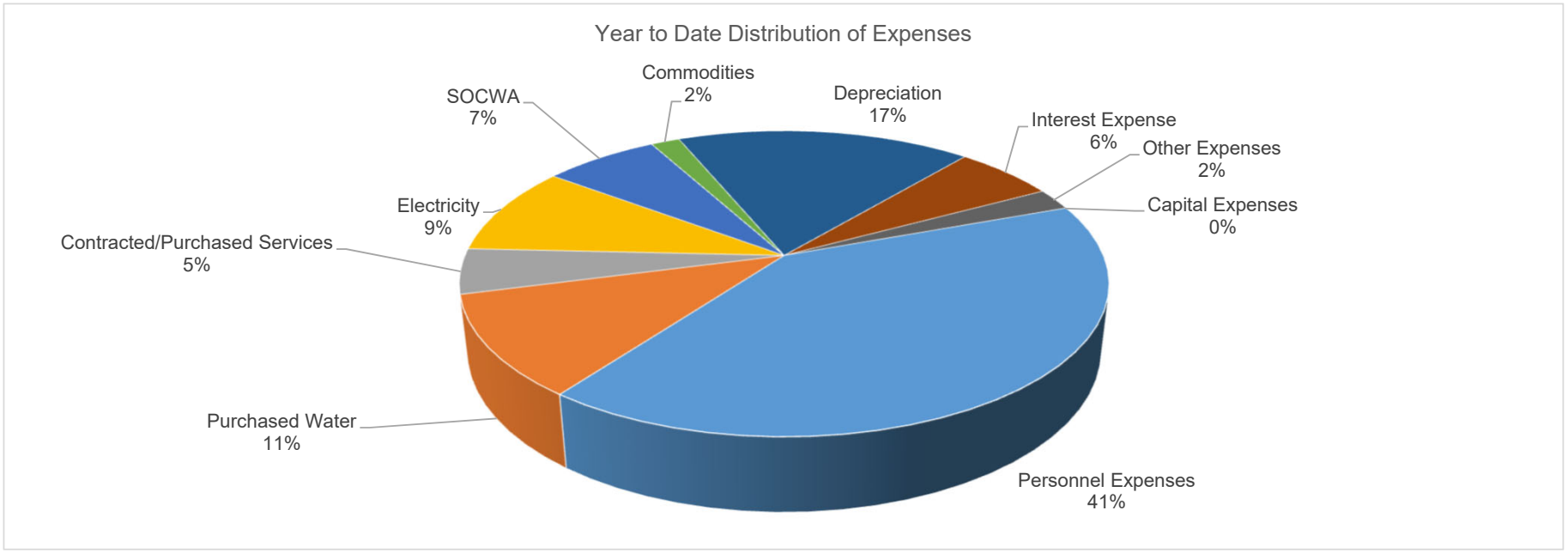
Revenue Charts -August Financial Report

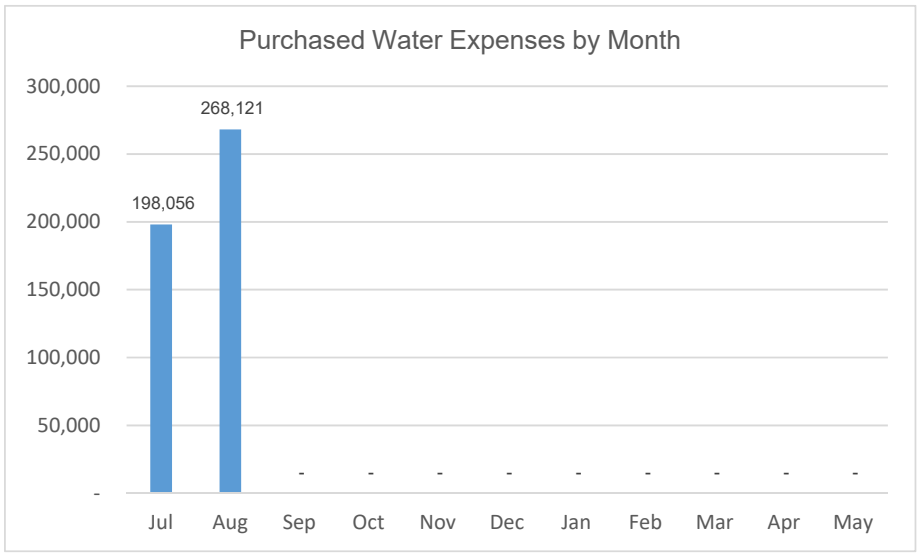


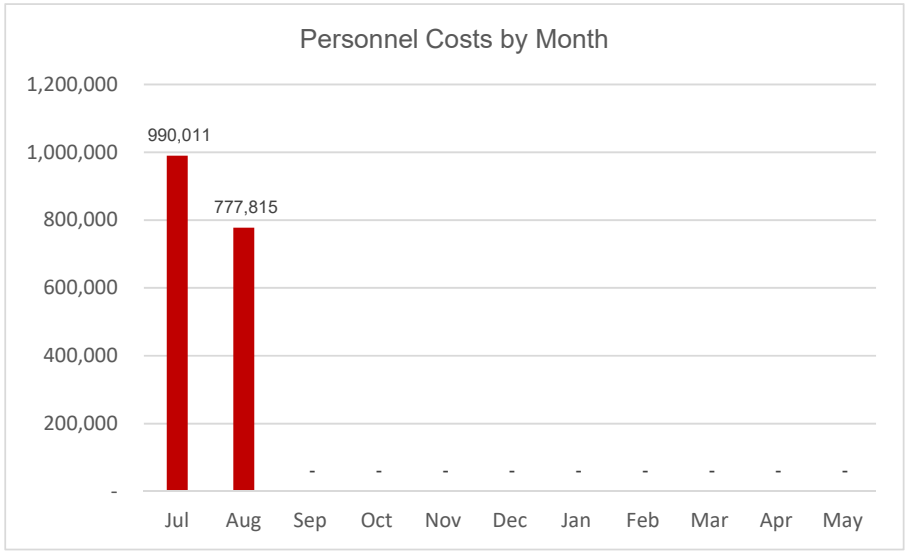




Expense Chart -August Financial Report







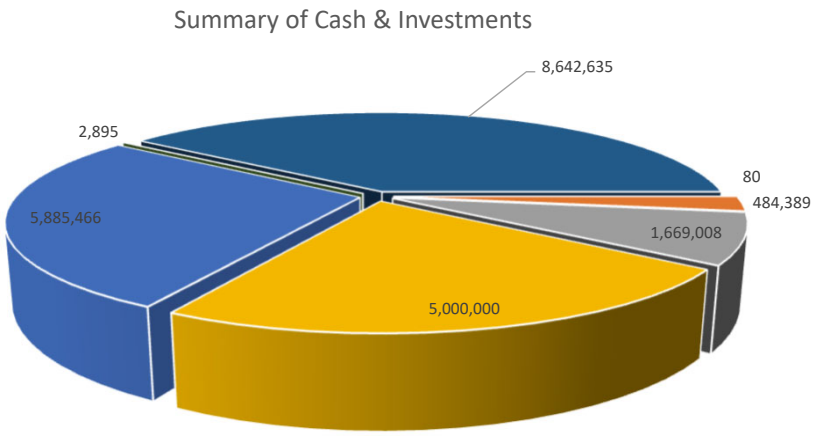
Attachment 6

Summary of Cash & Investments at the end of August 31, 2024

Summary of Cash & Investments

as of August 31, 2024

Summary of Cash & Investments	
Cash & Equivalents	
Unrestricted - Cash & Equivalents	8,642,635
Unrestricted - Cash & Equivalents USB	2,031,783
Restricted - Cash & Equivalents	2,895
Investments	
Government Securities	5,885,466
Certificates of Deposit	5,000,000
Corporates Bonds/Notes	1,669,008
Asset Backed Securities	484,389
2022 Bond Money Market	80
Total Cash & Investments	23,716,256
Operating Cash & Investments	**23,713,280.86**
2022 Bond Proceeds Cash & Investments	**79.75**
Restricted - Cash & Equivalents	**2,895.00**



Cash & Equivalents

	Account Balance	Current Yield
Cash & Equivalents		
Demand Deposit Accounts		
US Bank - Checking Account	2,031,783	
US - Capital Facilities Checking	2,895	
US Bank - 2022 Bond Proceeds/Interest/Principal	80	
Petty Cash	700	
Money Market Accounts		
US Bank - Money Market Account		
CAMP Money Market	4,317,508	
LAIF Money Market	4,324,427	
Total Cash & Equivalents	10,677,393	

Investments

	Purchase Cost	Par Amount	Premium/ (Discount)	Market Value	Unrealized Gain/(Loss)	Coupon Rate	Yield to Maturity	Purchase Date	Maturity Date
Governmental Securities									
United States Treasury Bond									
US Treasury N/B - AA+	34,854	35,000	(146)	34,944	90	0.375%	0.52%	10/7/2021	9/15/2024
US Treasury N/B - AA+	347,047	350,000	(2,953)	345,280	(1,767)	1.125%	1.42%	2/4/2022	1/15/2025
US Treasury N/B - AA+	149,566	150,000	(434)	148,075	(1,491)	2.750%	2.85%	6/1/2022	5/15/2025
US Treasury N/B - AA+	1,045,201	1,050,000	(4,799)	1,058,162	12,960	4.625%	4.90%	6/12/2024	3/15/2026
US Treasury N/B - AA+	1,026,744	1,050,000	(23,256)	1,042,986	16,242	3.625%	4.84%	6/12/2024	5/15/2026
US Treasury N/B - AA+	466,543	500,000	(33,457)	484,239	17,696	2.125%	4.20%	11/30/2022	5/31/2026
US Treasury N/B - AA+	464,531	500,000	(35,469)	481,289	16,758	2.250%	4.10%	11/30/2022	2/15/2027
US Treasury N/B - AA+	480,273	500,000	(19,727)	492,637	12,363	3.250%	4.25%	2/22/2023	6/30/2027
US Treasury N/B - AA+	502,500	500,000	2,500	505,020	2,520	4.125%	4.01%	11/30/2022	9/30/2027
US Treasury N/B - AA+	497,930	500,000	(2,070)	505,020	7,090	4.125%	4.22%	2/22/2023	9/30/2027
US Treasury N/B - AA+	485,332	500,000	(14,668)	495,489	10,156	3.500%	4.16%	2/22/2023	1/3/2028
United States Treasury Bond - Totals	5,500,522	5,635,000	(134,478)	5,593,138	92,616				

Investments (Continue)

	Purchase Cost	Par Amount	Premium/ (Discount)	Market Value	Unrealized Gain/(Loss)	Coupon Rate	Yield to Maturity	Purchase Date	Maturity Date
Supra-National Agency Bond / Note									
Inter-American Devel BK Note - AAA	184,863	185,000	(137)	184,503	(360)	0.500%	0.52%	9/15/2021	9/23/2024
Supra-National Agency Bond / Note Totals	184,863	185,000	(137)	184,503	(360)				
Municipal Bond / Note									
NJ TPK Authority TXBL Revenue Bonds - AA-	20,000	20,000	-	19,707	(293)	0.897%	0.90%	1/22/2021	1/1/2025
Municipal Bond / Note Totals	20,000	20,000	-	19,707	(293)				
Federal Agency Commercial Mortgage-Backed Security									
FHMS K047 - AA+	89,785	89,213	572	88,117	(1,668)	3.329%	3.10%	5/19/2022	5/1/2025
Federal Mortgage-Backed Security Totals	89,785	89,213	572	88,117	(1,668)				
Governmental Securities - Total Balances	5,795,169	5,929,213	(134,044)	5,885,466	90,296				
Corporate Notes									
Caterpillar Finl Service Corp Notes	19,973	20,000	(27)	19,971	(1)	0.600%	0.65%	9/7/2021	9/13/2024
Bank of NY Mellon Corp Note	24,984	25,000	(16)	24,834	(150)	0.850%	0.87%	10/20/2021	10/25/2024
Apple Inc Corp Note - AA+	42,786	40,000	2,786	39,682	(3,104)	2.750%	0.89%	3/11/2021	1/13/2025
Merck & Co Inc Corp Notes	21,389	20,000	1,389	19,805	(1,584)	2.750%	0.94%	3/9/2021	2/10/2025
3M Company Corp Note	69,744	70,000	(256)	69,034	(709)	2.000%	2.13%	3/3/2022	2/14/2025
Exon Mobil Corp Note	29,874	30,000	(126)	29,665	(210)	2.709%	2.86%	4/1/2022	3/6/2025
Intel Corp Notes	30,873	30,000	873	29,673	(1,200)	3.400%	2.40%	3/8/2022	3/25/2025
Burlington North Santa Fe Corp Note Call	21,533	20,000	1,533	19,772	(1,760)	3.000%	1.07%	3/5/2021	4/1/2025
Amazon.com Inc Corp Notes	74,881	75,000	(119)	74,219	(662)	3.000%	3.06%	4/11/2022	4/13/2025
Home Depot Inc Corp Note	4,991	5,000	(9)	4,936	(56)	2.700%	2.76%	3/24/2022	4/15/2025
Target Corp Note	30,015	30,000	15	29,543	(472)	2.250%	2.23%	3/8/2022	4/15/2025
Bank of NY Mellon Corp Note	46,148	45,000	1,148	44,079	(2,069)	1.600%	0.97%	3/10/2021	4/24/2025
Bank of NY Mellon Corp Note	19,997	20,000	(3)	19,779	(219)	3.350%	3.36%	4/19/2022	4/25/2025
Pepsico Inc Corp Note Call	21,400	20,000	1,400	19,730	(1,670)	2.750%	1.02%	3/5/2021	4/30/2025
Suntrust Banks Inc Corp Notes	36,373	35,000	1,373	34,740	(1,633)	4.000%	2.69%	3/8/2022	5/1/2025
Charles Schwab Corp Note	40,616	40,000	616	39,697	(919)	3.850%	3.30%	6/1/2022	5/21/2025
Honeywell Intl Corp Note	20,360	20,000	360	19,516	(845)	1.350%	0.91%	3/5/2021	6/1/2025
National Rural Util Coop Corp Note	9,997	10,000	(3)	9,887	(110)	3.450%	3.46%	5/4/2022	6/15/2025
Intel Corp Notes	35,821	35,000	821	34,525	(1,296)	3.700%	2.95%	4/4/2022	7/29/2025
Citigroup Inc Corp Notes	20,000	20,000	-	19,853	(147)	1.281%	1.28%	10/27/2021	11/3/2025
Morgan Stanley Corp Notes	126,939	130,000	(3,062)	128,605	1,667	3.875%	5.41%	6/12/2024	1/27/2026
State Street Corp Note	20,000	20,000	-	19,693	(307)	1.746%	1.75%	2/2/2022	2/6/2026
Goldman Sachs Group Inc Corp Note Call	126,585	130,000	(3,415)	128,482	1,897	3.750%	5.38%	6/12/2024	2/25/2026
Caterpillar Finl Service Corp Notes	99,911	100,000	(89)	101,065	1,154	5.050%	5.11%	6/11/2024	2/27/2026
United Healthcare Group Inc Corp Notes	125,597	130,000	(4,403)	127,674	2,077	3.100%	5.14%	6/12/2024	3/15/2026
Citigroup Inc Corp Notes	15,000	15,000	-	14,845	(155)	3.290%	3.29%	3/10/2022	3/17/2022
State Street Corp Note	61,208	60,000	1,208	59,199	(2,008)	2.901%	2.38%	2/17/2022	3/30/2026
JPMorgan Chase & Co (Callable)	145,148	150,000	(4,853)	147,261	2,113	3.300%	5.20%	6/12/2024	4/1/2026
Bank of America Corp Notes	125,806	130,000	(4,194)	127,966	2,160	3.500%	5.35%	6/12/2024	4/19/2026
JPMorgan Chase & Co (Callable)	80,000	80,000	-	79,456	(544)	4.080%	4.08%	4/19/2022	4/26/2026
Toyota Motor Credit Corp Notes	130,074	130,000	74	131,821	1,747	5.200%	5.17%	6/12/2024	5/15/2026
Corporate Bonds - Total Balances	1,678,021	1,685,000	(6,979)	1,669,008	(9,013)				

Investments (continued)

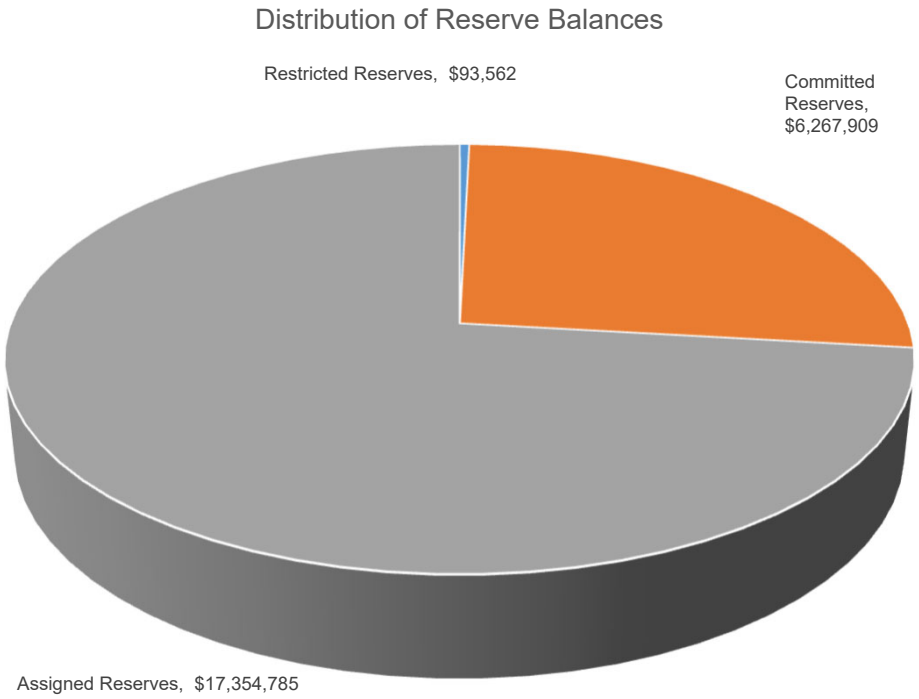
	Purchase Cost	Par Amount	Premium/ (Discount)	Market Value	Unrealized Gain/(Loss)	Coupon Rate	Yield to Maturity	Purchase Date	Maturity Date
Asset Backed Securities									
Harot 2021 - Aaa	1,335	1,335	(0)	1,332	(3)	0.330%	0.33%	5/18/2021	8/15/2025
Harot 2021 - AAA	6,819	6,819	(0)	6,749	(70)	0.410%	0.41%	8/17/2021	11/18/2025
Carmx 2021 - AAA	260	260	(0)	259	(1)	0.340%	0.34%	1/20/2021	12/15/2025
Harot 2021 - Aaa	7,835	7,836	(2)	7,710	(125)	0.880%	0.89%	11/16/2021	1/21/2026
TAOT 2021 - AAA	9,894	9,894	(0)	9,742	(151)	0.710%	0.71%	11/9/2021	4/15/2026
Hart 2021 - AAA	5,661	5,662	(1)	5,595	(67)	0.740%	0.75%	11/9/2021	5/15/2026
Harot 2022 - AAA	23,027	23,031	(3)	22,672	(355)	1.880%	1.88%	2/15/2022	5/15/2026
FordO 2022 - AAA	9,088	9,089	(1)	8,957	(131)	1.290%	1.29%	1/19/2022	6/15/2026
BMWOT 2021 - AAA	12,969	12,970	(1)	12,849	(120)	3.210%	3.21%	5/10/2022	8/25/2026
COPAR 2021 - AAA	9,174	9,174	(0)	9,006	(168)	0.770%	0.77%	10/19/2021	9/15/2026
FordO 2022 - Aaa	14,541	14,542	(1)	14,444	(97)	3.740%	3.74%	6/22/2022	9/15/2026
TAOT 2022 - AAA	17,903	17,903	(0)	17,683	(219)	2.930%	2.93%	4/7/2022	9/15/2026
DCENT 2021 - AAA	54,988	55,000	(12)	54,887	(101)	0.580%	0.58%	9/20/2021	9/15/2026
GMCar 2021 - AAA	9,138	9,138	(0)	8,971	(167)	0.680%	0.68%	10/13/2021	9/16/2026
Hart 2022 - AAA	28,805	28,806	(1)	28,376	(429)	2.220%	2.22%	3/9/2022	10/15/2026
Allya 2022 - AAA	31,350	31,356	(6)	31,097	(253)	3.310%	3.31%	5/10/2022	11/15/2026
Comet 2021 - AAA	49,993	50,000	(7)	49,558	(435)	1.040%	1.04%	11/18/2021	11/15/2026
GMCar 2022 - AAA	8,874	8,874	(1)	8,724	(149)	1.260%	1.26%	1/11/2022	11/16/2026
HDMOT 2022 - AAA	16,041	16,044	(3)	15,890	(152)	3.060%	3.06%	4/12/2022	2/15/2027
GMCar 2022 - AAA	16,234	16,237	(3)	16,038	(195)	3.100%	3.10%	4/5/2022	2/16/2027
Carmx 2022 - AAA	20,614	20,617	(3)	20,411	(203)	3.490%	3.49%	4/21/2028	2/16/2027
Comet 2022 - AAA	69,995	70,000	(5)	69,123	(872)	2.800%	2.80%	3/23/2022	3/15/2027
Comet 2022 - AAA	64,990	65,000	(10)	64,315	(675)	3.490%	3.49%	6/6/2022	5/15/2027
Corporate Bonds - Total Balances	489,528	489,590	(62)	484,389	(5,139)				

Attachment 7

Cash Reserve Balances for August 31, 2024

El Toro Water District
Preliminary Cash Reserve Status Report
as of August 31, 2024

	Cash Reserve Balances	Reserve Targets
Reconciled Cash Balance	**$ 23,716,256**	
Restricted Reserves		
2022 Revenue Bonds Fund	80	-
Capital Facilities Charge Reserve	93,482	-
Sub Total Restricted Reserve	**93,562**	-
Committed Reserves		
Capital Construction Reserve	1,975,455	3,000,000
Rate Stabilization Reserve	1,835,600	2,100,000
Operational Continuity Reserve	2,100,000	2,100,000
Working Capital Reserve	356,854	2,100,000
Sub Total Committed Reserves	**6,267,909**	**9,300,000**
Assigned Reserves		
CIP Reserves		
Capital Carryover	3,054,942	-
Accumulated Capital Reserve	1,159,974	-
CIP - Revenue Bond Unrestricted Reserve	8,410,681	-
SOCWA Capital Projects	3,600,005	-
Recycled Water Capital / Debt Service	(1,435,070)	
Capital Plan Working Capital Reserve(1)	1,481,185	
		-
Water Supply Program Reserves		
Tiered Conservation Fund	908,176	-
Debt Service Reserves		
Baker Debt Service	174,892	-
Sub Total Assigned Reserves	**17,354,785**	
Total Cash Reserves	**23,716,256**	
Adjusted Cash Reserves[2]	**23,622,694**	**9,300,000**



(1) Working Capital reserve amount is net of outstanding checks

(2) The Adjusted Cash Reserves excludes the 2022 Bond Proceeds which are obligated to the projects identified in the 2022 Bond Official Statement and are therefore not available for Operations & Maintenance activities or the annual Capital Improvement Program.

Attachment 8

Capital Project Expense Report through August 31, 2024

2024-2025 Capital Program Budget Information

PM Task Code	Project Description	Account	Total Budget	Ratio allocation	Ratio allocation	Ratio total	2024 - 2025 Expenses Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Remaining
GEN-0112	New Warehouse	40-000-15040	2,502,530.00			100.00		3,486.38					3,486.38	2,499,043.62
GEN-0119	Main Office Warehouse Improvements	40-000-15040	43,225.18			100.00		43,225.18					43,225.18	-
VEH-0010	Vehicle Purchases	40-000-15040	133,900.00	18.63	81.37	100.00							-	133,900.00
VEH-0012	Hydro Excavator Rehabilitation	40-000-15040	40,000.00		100.00	100.00							-	40,000.00
VEH-0013	F-550 with Valve Maintenance Skid	40-000-15040	206,000.00		100.00	100.00							-	206,000.00
SPS-0050	Asset Management Study 31-050	40-840-55110	100,000.00	6.86	93.14	100.00							-	100,000.00
SPS-0053	System Arc Flash Coord Study	40-840-55110	180,000.00			100.00							-	180,000.00
CAP-0051	Sewer PLC Upgrade	40-000-15040	25,000.00			100.00							-	25,000.00
CAP-0053	Sewer Station HMI Rplmnt	40-750-66230	10,000.00	38.07	61.93	100.00							-	10,000.00
RCE-0010	JRWSS Capital Budget	40-000-15010	18,618.00		100.00	100.00							-	18,618.00
RCE-0011	Baker WTP Replaement Fund	40-000-15010	56,200.00		100.00	100.00							-	56,200.00
RCE-00125	SOCWA Capital Expenses	40-000-15020	269,944.00			100.00		72,680.00					72,680.00	197,264.00
SLS-0120	Freeway Electrical Equip Repl	40-000-15020	263,362.00	41.77	58.23	100.00							-	263,362.00
SLS-0121	Westline Main Switchboard Replacement	40-000-15020	37,250.00		100.00	100.00							-	37,250.00
SLS-0122	Westline Generator Unit 213 Replacement	40-000-15020	267,000.00		100.00	100.00							-	267,000.00
WRP-0131	Grit Chamber Rehab 933-131	40-000-15020	1,046,502.00	85.80	14.20	100.00		14,376.28					14,376.28	1,032,125.72
WRP-0147	DAF No 1 MCC Replacement	40-000-15020	149,000.00	46.31	53.69	100.00		11,537.00					11,537.00	137,463.00
CAP-0067	Influent Pump Station Isolation Gate Actuator Replacement	40-750-66230	15,000.00		100.00	100.00							-	15,000.00
CAP-0072	WRP Historian Configuration to Hach WIMS	40-750-66230	30,000.00		100.00	100.00							-	30,000.00
WRP-0145	Additional Tertiary Filter Disks	40-000-15030	92,000.00			100.00							-	92,000.00
WRP-0137	Tertiary Disinfection Optimization Study	40-000-15030	132,000.00			100.00							-	132,000.00
WRP-0142	Headworks and Secondary Clarifier No. 1 Rehabilitation+R	40-000-15020	1,998,800.00	98.76	1.24	100.00							-	1,998,800.00
WRP-0146	WRP Unit 290 Radiator Replacement	40-000-15020	150,000.00		100.00	100.00							-	150,000.00
TBD	Added to Headworks - RAS Pump StationRehabilitation	40-000-15020	-		100.00	100.00							-	-
RES-0016	Moulton/El Toro Cathodic Protection Repair	40-000-15010	145,000.00	56.10	43.90	100.00							-	145,000.00
CAP-0066	New Handheld Meter Readers	40-720-66120	14,500.00		100.00	100.00							-	14,500.00
RES-0019	R-4 Reservoir RMS Mixer Replacement	40-000-15010	70,000.00		100.00	100.00							-	70,000.00
WPS-0098	Cherry Booster Station Pump & Motor Replacement	40-000-15010	167,000.00		100.00	100.00							-	167,000.00
SLS-0115	Aliso Creek Pump Rehab 932-115	40-000-15020	600,000.00			100.00		866.25					866.25	599,133.75
CAP-0050	Water PLC Upgrade	40-000-15040	25,000.00			100.00							-	25,000.00
CAP-0052	Water Station HMI Rplmnt	40-720-66120	10,000.00	99.62	0.38	100.00							-	10,000.00
TBD	Regional Potable reuse facility study	40-710-55100	454,000.00			100.00							-	454,000.00
SPS-0055	Orange County Cross Connection Policy Handbook	40-710-55100	20,000.00		100.00	100.00							-	20,000.00
SPS-0054	Lead Copper Rule Revision	40-000-15010	97,908.00		100.00	100.00		64,595.50					64,595.50	33,312.50
SPS-0057	South Orange county Turnout project	40-000-15010	75,000.00		100.00	100.00							-	75,000.00
WRP-0143	New Turbo Blower	40-000-15020	631,000.00	55.37	44.63	100.00							-	631,000.00
WRP-0144	OOPS MCC and Valve Rehabilitation Project	40-000-15020	191,000.00		100.00	100.00							-	191,000.00
CAP-0065	R-6 Outlet flow meter backup	40-720-66120	9,000.00		100.00	100.00							-	9,000.00
CAP-0068	System-Wide Security Access Panel Replacement	40-000-15040	49,000.00		100.00	100.00							-	49,000.00
CAP-0069	Remittance Processing Equipment Update	40-000-15040	20,000.00		100.00	100.00							-	20,000.00
CAP-0070	Documentum Replacement / Corporate Intranet Developme	40-000-15040	61,000.00		100.00	100.00							-	61,000.00
CAP-0071	Water Distribution and Sewer Collection System SCADA U	40-000-15040	20,000.00			100.00							-	20,000.00
TBD	Contigency	TBD	112,092.00		100.00	100.00							-	112,092.00
CAP-0073	Warehouse Office HVAC	40-830-66120	10,000.00		100.00	100.00							-	10,000.00
RES-0047	R-6 Reservoir Cover (CIP23)	40-000-15040/CIP23	-		100.00	100.00							-	-
RES-0017	SRV-2 Lid Repair	40-000-15010	-		100.00	100.00							-	-
RES-0018	R-6 Security Improvements	40-000-15010	-		100.00	100.00							-	-
RES-0015	R-4 Exterior Recoating	40-000-15010	-		100.00	100.00							-	-
CAP-0024	P-4 Pump Replacement	40-000-15010	59,000.00		100.00	100.00		36,544.73					36,544.73	22,455.27
CAP-0061	WRP Main Electrical Power Breaker Upgrades	40-000-15020	-		100.00	100.00							-	-
CAP-0054	23-24 ATS Replacements	40-000-15040	-		100.00	100.00							-	-
CAP-0054	23-24 ATS Replacements	40-000-15040	-		100.00	100.00							-	-
TCP-0006	23-24 Security System Imprmnts	40-000-15040 Add in $50K bud	-		100.00	100.00							-	-
TCP-0008	EOC Technology Upgrade	40-820-66120 Add in $16K bud	-		100.00	100.00							-	-
SPS-0051	IT Master Plan	40-000-15040 Add in budget an	-		100.00	100.00							-	-
SLS-0119	Northline Coating Impr Project	40-000-15020 Add in budget an	-										-	-
WRP-0149	ETM Trail Bridge Mitigation Project	Need to track labor associated with the FEMA HMGP grant for this project.												
WPS-0095	P-3 Pump Station Rehab	Need to track labor associated with the FEMA HMGP grant for this project.												
RES-0020	R-6 Reservoir SCE Meter Box Replacement at Seepage ar	Non budgeted project that we need to add to the list to address. Use FY 24/25 CIP "Contingency" fund for this.												
WRP-0148	WRP Zoom Room	40-820-66120 Non budgeted project that we need to add to the list to address. Use FY 24/25 CIP "Contingency" fund for this.												
		Gross project cost	10,606,831.18	547.29			0.00	247,311.32	0.00	0.00	0.00	0.00	247,311.32	10,359,519.86
	Bond CIP Unrestricted Funds	Bond CIP Unrestricted Funds	4,476,530.00	97.53	1.23	198.76	-	3,486.38	-	-	-	-	3,486.38	
	2023-24 CIP Budget	2024-25 CIP Budget	2,528,334.00	145.25	2,493.26	2,638.51	-	70,789.72	-	-	-	-	70,789.72	
	SOCWA	SOCWA	269,944.00	-	-	100.00	-	72,680.00	-	-	-	-	72,680.00	
	Carryover Project Fund	Carryover Project Fund	1,406,745.18	200.24	221.34	921.58	-	88,020.38	-	-	-	-	88,020.38	
	Accumulated Capital Funds	Accumulated Capital Funds	1,247,278.00	104.27	36.90	141.17	-	12,334.85	-	-	-	-	12,334.85	
		Grants	454,000.00	-	-	100.00	-	-	-	-	-	-	-	
	Recycle Capital Projects	Recycle Capital Projects	224,000.00	-	-	200.00	-	-	-	-	-	-	-	
			10,606,831.18	547.31	2,752.71	4,300.02	-	247,311.32	-	-	-	-	247,311.32	

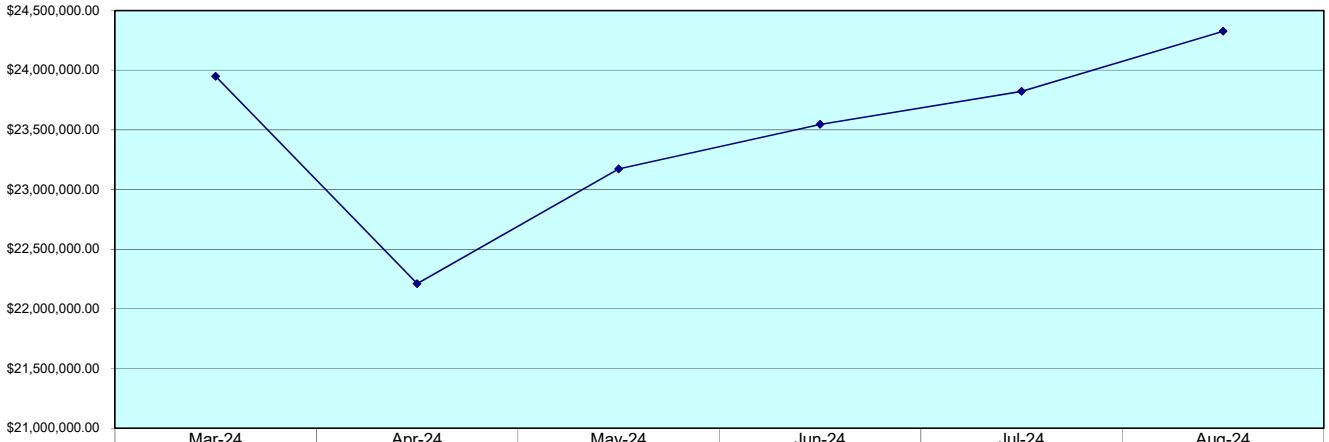
Attachment 9

Interim Report on 401k Plan Holdings
As of August 31, 2024

EL TORO WATER DISTRICT

401K PLAN SUMMARY

401K PLAN MARKET VALUE



	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24
Series1	$23,948,529	$22,211,188	$23,172,355	$23,545,815	$23,821,824	$24,326,162

MARKET VALUE SUMMARY

	Under 41 yrs. Old	41 to 48 yrs. Old	49 to 55 yrs. Old	56 to 58 yrs. Old	59 to 62 yrs. Old	63 to 65 yrs. Old	Over 65 yrs. Old
Balance at June 30, 2024	$2,035,902.59	$3,194,841.09	$3,978,641.85	$2,669,523.86	$6,131,527.99	$2,755,944.40	$2,779,433.18

	Under 41 yrs. Old	41 to 48 yrs. Old	49 to 55 yrs. Old	56 to 58 yrs. Old	59 to 62 yrs. Old	63 to 65 yrs. Old	Over 65 yrs. Old
Balance at August 31, 2024	$2,153,816.83	$3,365,145.20	$4,174,394.11	$2,799,424.86	$6,362,292.64	$2,892,742.08	$2,578,345.97

Disrict Staff is working with Highmark and Empower to design a new 401k report. Once the data for the portfolios is being generated by Empower, the District portfolio information by age group will be updated.

Investments	Beginning Balance	Contributions	Withdrawals	Interest, Dividends and Appreciation Net of Fees & Charges	Ending Balance
American Beacon AHL Mgd Futs Strat A	612,497.01	3,239.46	0.00	929.83	616,666.30
BlackRock Tactical Opportunities K	229,800.95	1,377.63	0.00	8,185.52	239,364.10
Columbia Contrarian Core Inst 3	2,118,654.70	13,381.42	0.00	37,718.30	2,169,754.42
Delaware Small Cap Core R6	797,387.33	4,262.91	0.00	(7,431.54)	794,218.70
DFA Large Cap International I	1,331,130.52	8,713.52	0.00	55,784.04	1,395,628.08
Dodge & Cox Income - I	2,614,870.59	13,183.05	0.00	25,281.31	2,653,334.95
Dodge & Cox International Stock - I	344,053.16	2,166.80	0.00	15,373.04	361,595.00
Dodge & Cox Stock - I	1,158,757.95	7,197.60	0.00	17,938.56	1,181,894.11
DoubleLine Core Fixed Income R6	2,498,233.86	12,579.89	0.00	28,137.62	2,539,051.37
Emerald Growth Institutional	520,911.51	3,396.83	0.00	73.17	524,381.51
Guaranteed Income Fund	695,232.72	3,459.83	0.00	8,781.14	707,473.69
Harbor Capital Appreciation Retirement	978,249.76	6,566.33	0.00	33,074.01	1,017,990.10
MFS International Growth R6	348,227.69	2,166.80	0.00	14,431.16	364,827.65
Nuveen Real Estate Securities R6	770,209.03	4,029.40	0.00	14,639.86	788,878.29
PGIM Total Return Bond R6	2,056,863.08	10,136.83	0.00	20,805.02	2,087,804.93
PIMCO Income Instl	288,921.20	1,360.92	0.00	2,165.54	292,747.66
PIMCO RAE US Instl	1,145,502.70	7,197.60	0.00	3,105.56	1,155,805.86
The Merger Fund I	236,154.36	1,377.63	0.00	1,308.63	238,840.62
Undiscovered Mgrs Behavioral Value R6	532,939.59	3,396.83	0.00	(6,147.93)	530,188.49
Vanguard Emerging Mkts Stock Idx Adm	604,068.05	3,975.40	0.00	11,148.89	619,192.34
Vanguard Growth & Income Adm	2,115,436.53	13,382.49	0.00	50,162.54	2,178,981.56
Vanguard Growth Index Adm	852,593.96	5,714.61	0.00	14,465.44	872,774.01
Vanguard Long-Term Investment-Grade Adm	733,320.58	3,520.65	0.00	9,465.06	746,407.29
Vanguard Mid Cap Index Fund - Admiral	239,806.91	1,377.63	0.00	7,175.12	248,360.66
Grand Total	23,821,823.74	137,766.06	0.00	366,571.89	24,326,161.69

MINUTES OF THE REGULAR MEETING
& OF THE
ENGINEERING COMMITTEE MEETING

August 19, 2024

At approximately 8:29 a.m. Director Freshley called the Engineering Committee meeting to order.

Committee Members MARK MONIN, MIKE GASKINS, KAY HAVENS, KATHRYN FRESHLEY, and FRED ADJARIAN participated.

Also participating were DENNIS P. CAFFERTY, General Manager, VISHAV SHARMA, CFO, JUDY CIMORELL, Director of Human Resources, HANNAH FORD, Director of Engineering, SCOTT HOPKINS, Operations Superintendent, GILBERT J. GRANITO, General Counsel, MIKE MIAZGA, IT Manager (Zoom), CAROL MOORE, Laguna Woods City Council Member (Zoom), and MARISOL MELENDEZ, Recording Secretary.

Consent Calendar

Director Freshley asked for a Motion.

Motion: President Monin made a Motion, seconded by Vice President Gaskins to approve the Consent Calendar.

Roll Call Vote:

Director Adjarian	aye
Director Freshley	aye
Director Havens	aye
Vice President Gaskins	aye
President Monin	aye

Engineering Action Items

Warehouse Repair Project

Mr. Cafferty reported that this item follows the Board's approval last month to proceed with the contract for addressing water damage from the warehouse flood. He noted that most of the costs are being covered by the insurance claim, with the District's out-of-pocket expenses totaling approximately $10,000 to date. Mr. Cafferty also mentioned that additional issues were discovered during the repair process, including mold, problems with the concrete surface requiring leveling, window sealing, and drainage issues preventing proper water runoff. He added that remediation and repairs related to the plumbing failure are ongoing and are expected to be completed next month.

Director Freshley inquired about the age of the warehouse. Mr. Cafferty responded that it was constructed about 30 years ago.

Director Havens asked about the number of staff members affected by the displacement. Mr. Cafferty stated that the Purchasing Agent, the SCADA and Electrical Systems Supervisor, and the Senior Mechanic have temporarily relocated their workstations to continue their daily responsibilities.

Director Freshley asked for a Motion.

Motion: Director Adjarian made a Motion, seconded by Vice President Gaskins to approve the warehouse repair project.

Roll Call Vote:

Director Adjarian	aye
Director Freshley	aye
Director Havens	aye
Vice President Gaskins	aye
President Monin	aye

Valve Turning Truck

Mr. Cafferty reported that the District manages over 6,000 valves in its potable and recycled water systems, which need regular exercise to ensure proper function. He further stated that previously this was done manually but about fifteen years ago the District acquired a truck with trailer mounted valve-turning equipment and this truck and trailer have reached the end of their useful life. Mr. Cafferty stated that this Fiscal Year's Capital Budget includes $206,000, and the cost for a new valve-turning truck is within that budget. He further stated the District's approach is to purchase a new vehicle and install the valve-turning equipment directly on it, which will enhance efficiency, reduce costs, and improve safety. He added that the current truck is over 20 years old and will be replaced as part of this purchase.

President Monin inquired about the age and model of the old truck. Mr. Cafferty noted it is a 2001 F-450 model.

Mr. Cafferty stated that staff inquired with other agencies for their valve exercising operations and all responses have indicated that they use similar truck mounted equipment.

President Monin asked if Wachs Utility Products is the only supplier of skid equipment. Mr. Hopkins responded that Pacific Tech is another option, but staff prefer Wachs Utility Products.

President Monin also asked if the truck equipment was put out to bid. Mr. Hopkins explained that while prices were compared with several dealerships through Sourcewell, they could not provide the required equipment.

Director Havens requested a brief overview of the valve-turning truck's operation. Mr. Hopkins described that the truck is equipped with a vacuum system, valve-turning capabilities, and a pressure-washing system, which are used daily by the operations department.

Director Freshley asked for a Motion.

Motion: Director Havens made a Motion, seconded by Vice President Gaskins to approve the valve turning truck.

Roll Call Vote:

Director Adjarian	aye
Director Freshley	aye
Director Havens	aye
Vice President Gaskins	aye
President Monin	aye

District-Wide Security System Support Service Contracts

Mr. Cafferty reported that this discussion is a continuation of previous meetings regarding the District's need to enter into long-term contracts for security support services at each secured site. He added that this recommendation will split the security system contracts between Johnson Controls Inc. (JCI) and Convergint Technologies LLC (Convergint) based on anticipated cost savings and input from District staff.

Director Freshley asked for a Motion.

Motion: President Monin made a Motion, seconded by Director Havens to approve the District-wide security system support service contracts.

Roll Call Vote:

Director Adjarian	aye
Director Freshley	aye
Director Havens	aye
Vice President Gaskins	aye
President Monin	aye

Engineering Information Items

ETWD Operations Report

Mr. Cafferty recognized Ms. Ford's and Mr. Hopkins efforts on collaborating and improving the presentation of the Operations Report.

The Board members expressed contentment and appreciation for the report.

El Toro Water District Capital Project Status Report

Grit Chamber Rehabilitation

Ms. Ford reported that the project is currently mid-construction. She added that the contractor has completed the coating phase and is now transitioning to the mechanical phase. She noted that some unforeseen issues were addressed through a change order, costing approximately $10,000. Ms. Ford added that staff remains satisfied with the contractor's performance and Carollo's construction management.

New Warehouse

Ms. Ford states that staff has conducted a preconstruction meeting with MET and they have been proactive in sending their three week look ahead schedule each week. She further stated that District staff continues coordination with Dumarc, AQMD, and MET.

Director Havens inquired about the condition of electrical panel. Ms. Ford stated that the electrical panel arrived early without notice and there is other coordination that needs to happen with SCE to finalize installation but will have the contractor double check that the shipment was inspected and accepted.

Northline Coating Improvement Project

Ms. Ford stated that, although there were some unforeseen coating repairs added to the contract via change order, total project cost remained slightly under budget.

Lead and Copper Rule Revisions Compliance

Ms. Ford stated that the field surveys are going well and staff is now doing daily check ins with operations. She added that the District is on track to complete on time and no lead has been discovered as of yet.

Aliso Creek Lift Station Rehabilitation Project

Ms. Ford stated that staff received and are reviewing the 30% design and a competitive RFP for CEQA compliance was sent out.

Director Adjarian asked for the names of the consultants who attended the pre-proposal conference. Ms. Ford stated that the bid was put out on Planet Bids and the consultants that attended the mandatory preproposal meeting were Dudek, ESA, SWCA, Rincon Consulting, Michael Baker, and Tetra Tech.

Headworks and Secondary Clarifier No. 1 Rehabilitation Project

Ms. Ford stated that staff has reviewed the 60% design and Carollo is now working towards 90% completion. She added that the polymer tests are complete but staff is still analyzing results.

Cathodic Protection Repair on Moulton Parkway

Ms. Ford reported that the project is located next to the P-1 pump station. She explained that a 16-inch main had lost its impressed current cathodic protection and is experiencing interference from other lines. Ms. Ford stated that a designer has been hired to finalize the design, and their estimated construction cost increased by

approximately $50,000 due to the need for more robust protection. She added that the project will proceed but may be delayed until the end of the fiscal year to ensure sufficient contingency funds and to budget appropriately.

Tertiary Disinfection Optimization Project

Ms. Ford reported that comments from DDW have been received. However, due to high turnover at DDW, the comments are extensive and responding will require additional time.

DAF No. 1 MCC Replacement

Director Freshley inquired about the material used for the enclosure. Ms. Ford responded that Mr. Cafferty addressed this question last month, confirming that after additional research the District proceeded with stainless steel. This choice was made due to the highly corrosive environment and the benefits of using stainless steel.

Energy Efficiency Analysis

Ms. Ford stated that the District is continually exploring opportunities for rebates and funding. Mr. Cafferty added that discussions with Terra Verde are ongoing regarding options for a few sites. However, cost-effectiveness and other site constraints are consistently considered.

Director Freshley states she would like to meet with the consultant who is producing the battery reports to gain clarity on the materials presented and for a better understanding of the high peaks.

Mr. Cafferty acknowledged that the exhibit appears inconsistent with the intended function of the battery system. He added that staff will follow up with the consultants to address these concerns and may arrange for a presentation at a future Board meeting.

Engineering Items Discussed at Various Conferences and Meetings

Director Freshley reported on the Southern California Water Conference hosted by BIA and other agencies in the Santa Ana River area. Director Freshley found the conference interesting and informative and she was surprised to learn that they recycle 100% of their waste.

Comments Regarding Non-Agenda Engineering Committee Items

There were no comments.

Adjournment

There being no further business, the Engineering Committee meeting was adjourned at approximately 9:18 a.m.

Regular Session

Attorney Report

Mr. Granito reported that there is no need for a Closed Session today, and as such Regular Session continued.

Adjournment

There being no further business to come before the Board, the meeting was adjourned at 9:18 a.m.

Respectfully submitted,

MARISOL MELENDEZ
Recording Secretary

APPROVED:

MARK MONIN, President
of the El Toro Water District and the
Board of Directors thereof

DENNIS P. CAFFERTY, Secretary
of the El Toro Water District and the
Board of Directors thereof

Agenda Item No. 5

STAFF REPORT

To: Board of Directors **Meeting Date: September 23, 2024**

From: Hannah Ford, Director of Engineering

Subject: Aliso Creek Lift Station Rehabilitation Project – CEQA Compliance

BACKGROUND

To address the capacity, access, and maintenance issues at the Aliso Creek Lift Station (ACLS), the District is pursing the ACLS Rehabilitation Project (Project). Tetra Tech is providing final design services to achieve the layout shown in Figure 1.

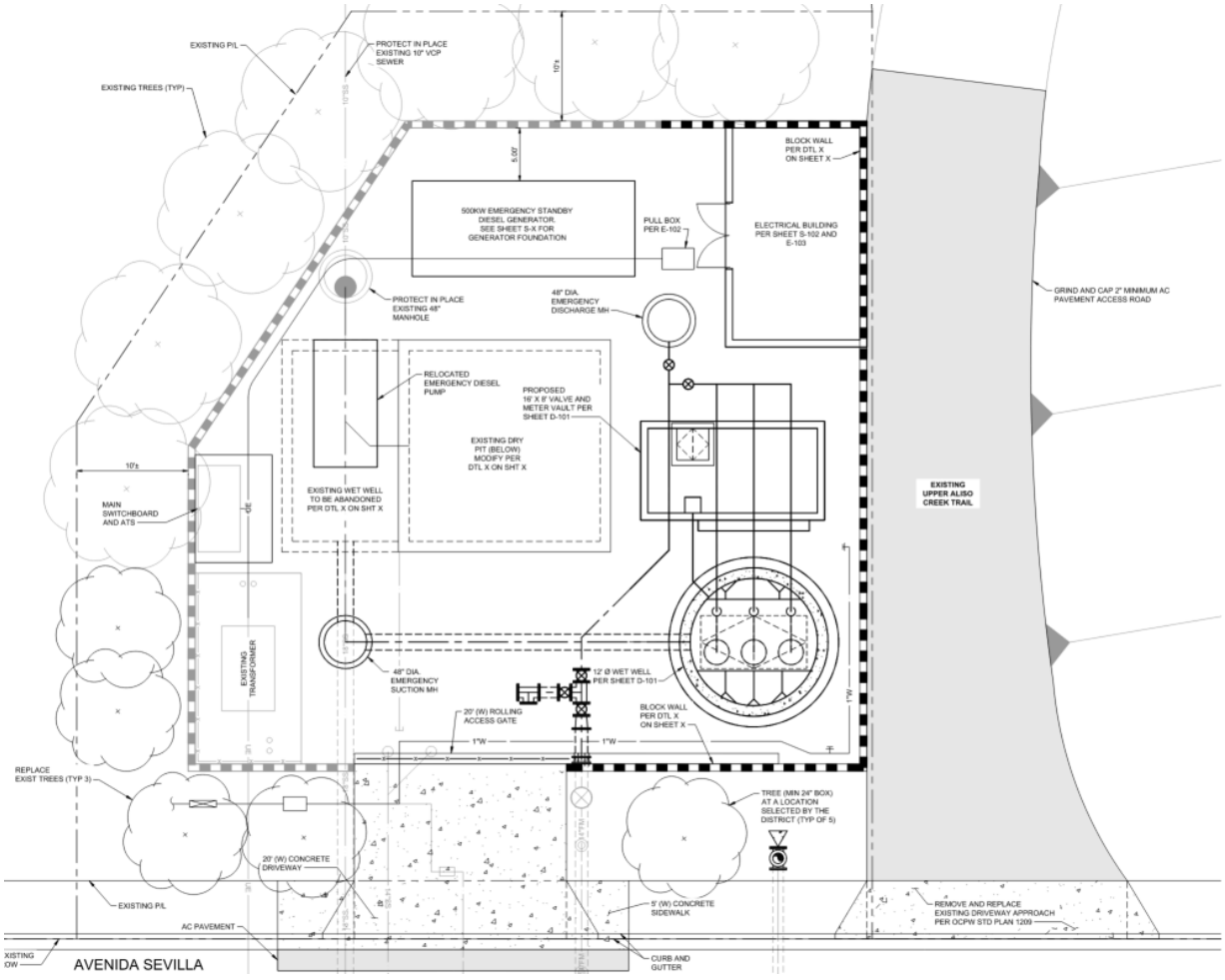


Figure 1 – Proposed ACLS Rehabilitation Project Layout

The District needs to hire an environmental consultant to develop an Initial Study (IS) / Mitigated Negative Declaration (MND) in order to comply with the California Environmental Quality Act (CEQA). Intending to pursue Federal Emergency Management Agency (FEMA) Hazard Mitigation Grant Program (HMGP) funding, the District publicly published the RFP to any interested consulting firm via PlanetBids. Six consultants attended the mandatory pre-proposal meeting in August. The following describes the proposal evaluation and ultimate recommendation.

PROPOSAL EVALUATION

On Monday, September 9th, the District received five proposals for this Project's CEQA compliance from Tetra Tech Inc. (Tetra Tech), Environmental Science Associates, Inc. (ESA), Dudek & Associates, Inc. (Dudek), Rincon Consulting, Inc. (Rincon), and Michael Baker International, LLC (Michael Baker). Figure 2 summarizes the proposed fees.

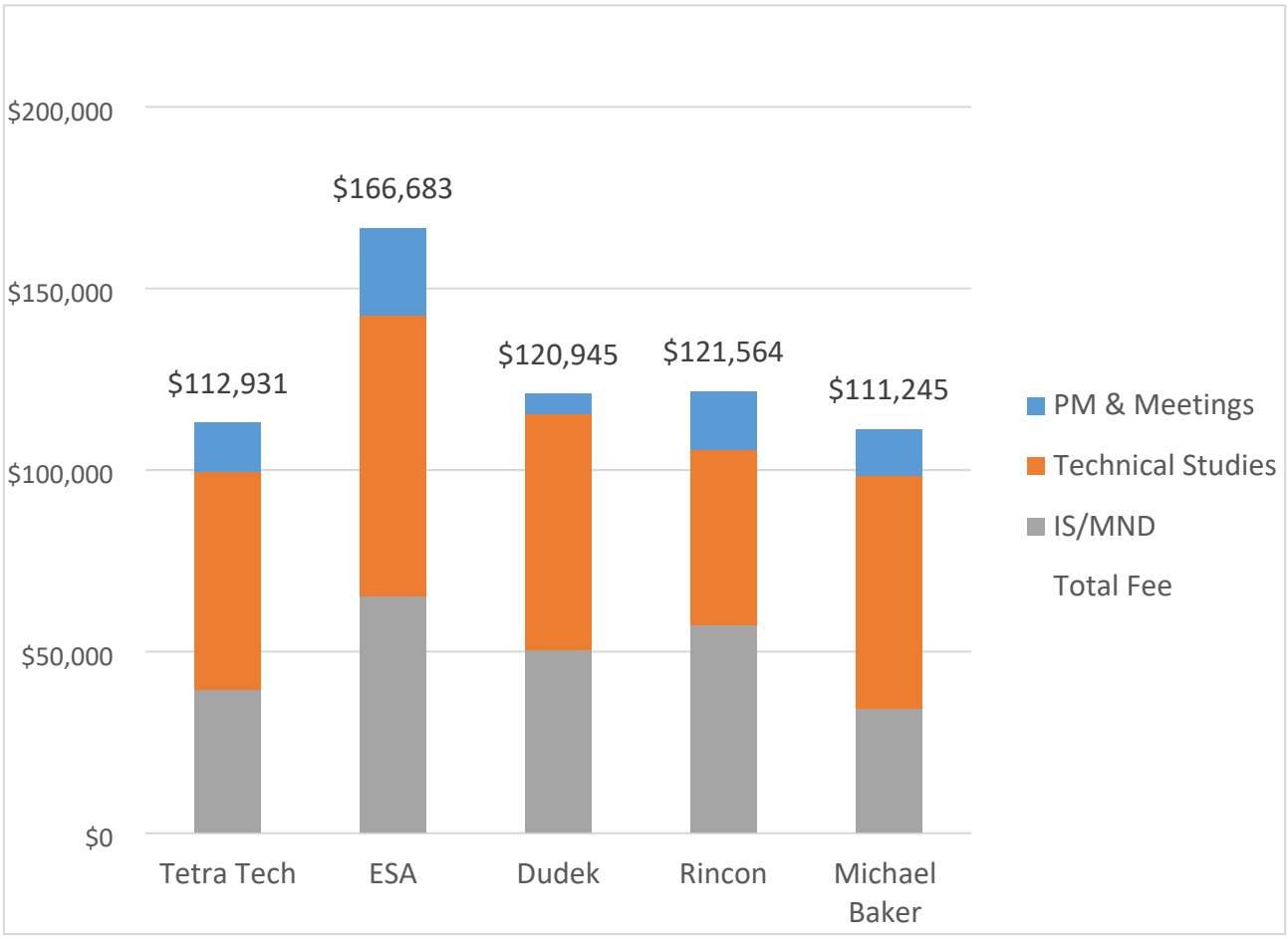


Figure 2 – CEQA Compliance Fee Summary

The spread between the low and high fee is approximately 32 percent. District staff performed a detailed evaluation of the qualifications and scope of work described in each proposal and contacted several references. Although Rincon's proposal is not the lowest cost, District staff recommends Rincon due to the following advantages:

- Clarity and responsiveness of the proposal
- Relevant, recent experience on similar projects for neighboring Water Districts,
- Local, technical project manager who has recently worked on similar Projects,
- Experience with FEMA grant-funded projects, and
- Innovative ideas for additional scope items that may become useful, such as strategic advising on construction dewatering and FEMA checklist support
- Cost savings ideas such as an off-ramp following technical study completion if a Notice of Exemption becomes possible

Appendix A contains the proposal from Rincon for further information. Although the District has not yet worked with Rincon, references from neighboring water districts were very positive, and their experience is a great fit for this Project.

BUDGET

The Fiscal Year (FY) 2024-2025 capital budget for the ACLS Rehabilitation Project is $600,000. The final design cost is $484,000, so the recommended proposal will exceed the budget by $5,564. FY 2025-2026 allocates additional capital for this Project to cover the overage. Table 1 summarizes total project costs compared to budget.

Table 1 – ACLS Rehabilitation Project Budget

Organization	Description	Total Cost
Tetra Tech	Final Design	$484,000.00
Rincon	CEQA Compliance	$121,564.30
	Total	$605,564.30
	FY 24-25 Budget	**$600,000.00**
	Difference	**($5,564.30)**

RECOMMENDATION

Recommended Action:

Staff recommends that the Board of Directors authorize the District's General Manager to enter into a contract with Rincon Consultants, Inc. in the amount of $121,564.30 for CEQA compliance associated with the Aliso Creek Lift Station Rehabilitation Project. Staff further recommends that the Board authorize the General Manager to fund the project costs from the District's Capital Reserves in accordance with the District's adopted Capital Reserve Policy.

El Toro Water District

Proposal for the Aliso Creek Lift Station Rehabilitation Project CEQA Compliance

Lake Forest, California • September 9, 2024

rincon

CELEBRATING 30 YEARS

RINCON CONSULTANTS, INC. SINCE 1994

Table of Contents

Appendices

Fee Proposal with Fee Schedule

Submitted Separately

Rincon Consultants, Inc.
250 East 1st Street, Suite 1400
Los Angeles, California 90012
213-788-4842

RINCON CONSULTANTS, INC. SINCE 1994

September 9, 2024

Hannah Ford, Director of Engineering/District Engineer
El Toro Water District
24251 Los Alisos Boulevard
Lake Forest, California 92630

Subject: Proposal for the Aliso Creek Lift Station Rehabilitation Project CEQA Compliance

Dear Ms. Ford:

Rincon Consultants, Inc. (Rincon) offers extensive experience in providing environmental services to California wastewater and water agencies. Our team's established track record of successfully completing the California Environmental Quality Act (CEQA) process, our technical knowledge and expertise, and our solution-oriented project management will provide effective and enthusiastic support on this critical infrastructure project that will allow El Toro Water District (ETWD) to continue providing vital community services while also reducing the risk of sanitary sewer overflows to Aliso Creek. Rincon will leverage the following experience for successful execution of environmental services for the Aliso Creek Lift Station Rehabilitation Project.

- **Knowledgeable and responsive project management team.** Rincon's Water Team focuses on providing expert environmental compliance services tailored to wastewater and water agencies. We have an in-depth understanding of how to navigate the CEQA process for water infrastructure. Our Principal-in-Charge **Jennifer Jacobus, PhD,** with 20 years of experience, and our Project Manager **Annaliese Torres**, with seven years of experience, bring extensive qualifications working with wastewater and water clients throughout Southern California. Specifically, Annaliese has overseen CEQA compliance for dozens of wastewater and water infrastructure projects through Southern and Central California, which have included similar issues, such as proximity to residential neighborhoods and construction-phase impacts to transportation networks and public recreational facilities. She has also assisted agencies with navigating the federal environmental compliance process for a variety of funding sources, including the United States Bureau of Reclamation, United States Department of Agriculture, and United States Environmental Protection Agency.
- **Deep bench of Southern California staff with specific expertise in local conditions and environmental constraints.** Annaliese is based in Orange County, and Rincon has more than 115 staff members within one hour of the ETWD service area in our Los Angeles, Carlsbad, and San Diego offices who are ready to support completion of the CEQA process for this project. Rincon staff are also currently working with South Coast Water District on biological resources evaluation and monitoring for the Aliso Creek Urban Runoff Recovery, Reuse, and Conservation Project, which aims to reduce urban runoff in the lower Aliso Creek watershed.
- **Experience with the Federal Emergency Management Agency Hazard Mitigation Grant Program.** Rincon has demonstrated experience in preparing environmental documentation (e.g., federally-compliant technical studies, Federal Emergency Management Agency Environmental Review Checklist) to meet the requirements of the Hazard Mitigation Grant Program, including for Casitas Municipal Water District's Ventura-Santa Barbara Counties Intertie project and City of San Luis Obispo's Water Resource Recovery Facility project.

This proposal outlines our qualifications and experience and describes our strong technical and project management team, who will aid in meeting the objectives of the project. We are confident the Rincon team will meet the needs of ETWD, and we welcome an opportunity to meet with you to discuss our qualifications further. Please do not hesitate to contact us should you have questions or need additional information.

Sincerely,
Rincon Consultants, Inc.

Annaliese Torres | Project Manager
atorres@rinconconsultants.com
Contact for clarification

Jennifer Jacobus, PhD | Principal-in-Charge
jjacobus@rinconconsultants.com
Authorized to contractually obligate and negotiate on behalf of Rincon

1 Qualifications and Experience

About Rincon

Rincon Consultants, Inc. (Rincon) is a multidisciplinary environmental consulting firm that provides quality professional services to assist government and industry clients in implementing the vision for their projects. Rincon strives to advance the adaptation of California communities, infrastructure, and natural systems to create a resilient water future. We seek to transform competing interests into collaborative and creative solutions that safeguard the well-being of residents, businesses, and the natural environment.

Legal Name:
Rincon Consultants, Inc.

Legal Form:
California "S" Corporation

Founded: 1994

Professional Staff: 400+

California Offices: 13

Rincon has been supporting water districts throughout California for nearly 30 years**. Rincon's Water Team** is experienced in providing California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) documentation, including federally-compliant technical studies meeting federal Endangered Species Act (ESA) and National Historic Preservation Act (NHPA) Section 106 requirements, for wastewater and water infrastructure projects. Rincon prides itself on the considerable knowledge-depth of its staff, which includes environmental scientists, planners, aquatic and wildlife biologists, botanists, wetland and restoration specialists, regulatory specialists, hydrogeologists, geospatial analysts, water quality experts, geologists, engineers, and cultural and historical resource specialists. Our in-depth understanding of local environmental resources and regulatory processes in Southern California allows us to provide recommendations for project design, alternative siting, CEQA/NEPA pathways, and options for minimizing environmental impacts, permitting requirements, and associated mitigation costs. Our approach to every project centers on the design and development of solutions that respond to our clients' specific needs in a collaborative and cost-effective manner. Southern California wastewater and water clients include South Coast Water District, Mesa Water District, The Metropolitan Water District of Southern California, Western Municipal Water District, North San Diego Water Reuse Coalition, Eastern Municipal Water District, and Inland Empire Utilities Agency.

List of Project Experience

Rincon offers extensive experience providing environmental consulting services to California wastewater and water agencies, and our team brings unique qualifications to manage projects in an efficient, transparent, and ethical manner. A partial list of relevant projects is presented below to demonstrate our qualifications in completing CEQA/NEPA documentation.

Castroville Community Services District

Moss Landing Wastewater Rehabilitation System Project

Moss Landing, California

Rincon prepared CEQA-Plus documentation for the replacement and rehabilitation of four lift stations, 12 manholes, and over 5,700 linear feet of pipelines in Moss Landing. To meet the federal cross-cutting requirements of the State Water Resources Control Board's Clean Water State Revolving Fund, Rincon prepared federally-compliant biological, cultural, and paleontological resources assessments and an air quality technical report. Rincon also prepared a CEQA-Plus Initial Study-Mitigated Negative Declaration (IS-MND) that included a federal cross-cutters analysis and alternatives evaluation in accordance with Clean Water State Revolving Fund requirements.

Relevance:

- IS-MND for lift station rehabilitation and replacement
- Technical studies meeting federal ESA and NHPA Section 106 requirements
- Similar project issues, including construction-phase impacts to traffic circulation on State Route 1 and public access to coastal recreational opportunities

Reference Information:
Eric Tynan, General Manager,
11499 Geil Street
Castroville, California 95012
831-633-2560 | eric@castrovillecsd.org

Dates: February 2022 to July 2024
Staff: Annaliese Torres (Project Manager)
Andrew McGrath (Paleontologist)
Ethan Knox (CEQA Analyst)

Heritage Ranch Community Services District

Heritage Ranch Water Reclamation Facility Upgrade Project

Lake Nacimiento, California

Rincon prepared CEQA/NEPA documentation for the installation and operation of a packaged wastewater treatment plant with a membrane bioreactor and modifications to effluent discharge infrastructure located near Percolation Pond No. 3. As part of the scope of work, Rincon prepared federally-compliant biological resources, cultural resources, paleontological resources, and air quality technical reports; a CEQA-Plus IS-MND; and an environmental report consistent with the United States Department of Agriculture's NEPA procedures due to the project's grant funding source. Key issues for the project included special-status species, jurisdictional waters, and archaeological resources.

Relevance:

- IS-MND for wastewater infrastructure upgrade project
- Technical studies meeting federal ESA and NHPA Section 106 requirements
- NEPA document meeting federal grant funding agency requirements

Reference Information:
Scott B. Duffield, PE, General Manager,
4870 Heritage Road
Paso Robles, California 93446
805-227-6230 | scott@heritageranchcsd.ca.gov

Dates: November 2021 to January 2024
Staff: Annaliese Torres (Project Manager)
Michael Vader (Archaeologist)
Shannon Carmack (Architectural Historian)
Andrew McGrath (Paleontologist)
Bill Vosti (Noise Specialist)

South Coast Water District

As-Needed Environmental Services

Orange County, California

Since 2020, Rincon has provided environmental consulting services to South Coast Water District (SCWD). Key projects include the following:

- **Reservoir 2B Replacement Project (Laguna Beach):** Rincon prepared technical studies and an IS-MND for the replacement of Reservoir 2B (located in a residential neighborhood) with two new reservoirs to double the current storage capacity on site in an effort to improve fire flow. Key issues consisted of special status plant and wildlife species (including coastal California gnatcatcher), archaeological and paleontological resources due to the project site's sensitivity for such resources, noise due to the proximity of nearby residences, and wildfire hazards due to the project site's location within a Very High Fire Hazard Severity Zone.

- **Aliso Creek Urban Runoff Recovery, Reuse, and Conservation Project (Orange County):** Rincon is developing and implementing a monitoring and reporting program for this project related to SCWD's Aliso Creek diversion facility in South Orange County. The project aims to reduce urban runoff in the lower watershed, which has negatively impacted water quality and led to the listing of Aliso Creek as an impaired watershed. By decreasing urban runoff, the project would help mitigate excessive stream flow from urban areas, restore the flow of lower Aliso Creek to more natural levels, reduce inflows to coastal ecosystems, and benefit several species of concern. In addition, the diverted and treated water would improve the water quality of SCWD's recycled water supply.

Rincon has also supported SCWD in preparing Notices of Exemption and supporting Categorical Exemption memoranda for the following projects in Dana Point and Laguna Beach: 2024 Annual Sewer Lining Project, Victoria Warehouse Site Improvements Project, Los Monteros Recycled Water Pipeline Replacement Project, Phase II Annual Water Meter Box Replacement Project, Laguna Cliffs Marriott Fire Flow Design Project, PCH PRV Upgrades Project, and Joint Regional Water Supply System Camino del Avion Flow Control Facility.

Relevance:

- IS-MND for infrastructure replacement in a single-family residential community with similar project issues, including construction noise in proximity to residences
- Demonstrated experience with biological resources evaluation along Aliso Creek

Reference Information:

Taryn Kjolsing, PE, Engineering Manager,
31592 West Street
Laguna Beach, California 92651
949-499-4555 ext. 3171 | tkjolsing@scwd.org

Dates: 2020 to Present

Staff: Jennifer Jacobus (Principal QA/QC)
Annaliese Torres (Project Manager)
Michael Vader (Archaeologist)
Shannon Carmack (Architectural Historian)
Bill Vosti (Noise Specialist)
Ethan Knox (CEQA Analyst)
Eric Schaad (Biologist)

Casitas Municipal Water District

Ventura – Santa Barbara Counties Intertie Project

Ventura and Santa Barbara Counties, California

Rincon prepared technical studies and an IS-MND for the construction and operation of approximately 9,200 linear feet of 16-inch-diameter potable water pipeline, two booster pump stations, and mechanical and valving modifications to connect the Casitas and Carpinteria Valley Water District (CVWD) water transmission systems. The pipeline would cross Rincon Creek by means of horizontal directional drilling under the creek to minimize impacts to jurisdictional waters. Because Ventura and Santa Barbara counties are susceptible to natural disasters such as wildfires, mudslides, and earthquakes, the project would allow the Casitas Municipal Water District (Casitas) and CVWD to transfer local potable water supplies to improve regional water supply reliability. The project would also provide Casitas with a means of accessing State Water Project water to supplement existing supplies during drought. Casitas pursued project funding through Federal Emergency Management Agency's (FEMA) Hazard Mitigation Grant Program (HMGP), which is administrated with the assistance of the California Office of Emergency Services. As part of the grant requirements, Rincon prepared biological, cultural, and paleontological resources assessments, as well as a federal Clean Air Act Conformity Analysis to meet FEMA standards. In support of the pursuit of grant funding, Rincon also prepared the FEMA Site Information and Environmental Review Checklist to assess project impacts in accordance with FEMA's guidance and guide the determination of whether the project would qualify for use of a Categorical Exclusion.

Relevance:

- Technical studies meeting federal ESA and Section 106 requirements
- Demonstrated experience with preparing environmental documentation to support a FEMA HGMP application

Reference Information:
Julia Aranda, PE, Engineering Manager,
1055 North Ventura Avenue
Oak View, California 93022
805-649-2251 | jaranda@casitaswater.com

Dates: April 2019 to September 2023
Staff: Shannon Carmack (Architectural Historian)
Andrew McGrath (Paleontologist)
Bill Vosti (Noise Specialist)
Ethan Knox (CEQA Analyst)
Eric Schaad (Biologist)

"Rincon is very responsive to the needs of the District and is seen as a valuable resource for supporting our capital projects and ongoing programs. Staff provide reasonable turnaround on deliverables and keep District staff informed when schedule delays are unavoidable. Reports are presented professionally and organized well. Rincon staff are very well qualified and knowledgeable regarding their respective areas of expertise, and deliverables are of high quality."

– Julia Aranda, PE, Engineering Manager
Casitas Municipal Water District

Soquel Creek Water District

Country Club Replacement Well and 1, 2, 3-Trichloropropane (1,2,3-TCP) Removal Water Treatment Plant Project

Aptos, California

Rincon prepared technical studies and an IS-MND and provided public outreach support for construction of a granular activated carbon adsorption treatment plant and a replacement groundwater well in a single-family residential neighborhood in Aptos. As part of this scope of work, Rincon prepared a biological, cultural, and paleontological resources assessments; provided Tribal consultation support; and gave presentations on the project and the CEQA process at neighborhood outreach and Board of Directors meetings. During preparation of the IS-MND, Rincon developed comprehensive analyses of daytime and nighttime construction noise impacts and provided detailed mitigation recommendations to address noise impacts, including sound enclosures for stationary equipment, temporary sound barriers, temporary hotel accommodations for adjacent residents during overnight drilling activities, advance neighborhood notifications, and a noise complaint hotline. In addition, although transportation impacts were determined to be less than significant under CEQA, Rincon collaborated with the Soquel Creek Water District to develop a voluntary measure to address neighborhood concerns regarding safety conflicts between project construction activities and local residents who often park along neighborhood streets to drop off and pick up students at the nearby elementary school. The measure included timing restrictions for equipment and haul trucks entering and exiting the project site, specifically to avoid school pick-up and drop-off hours, and advance notification of the local school district. For public disclosure and enforceability, the voluntary measure was incorporated into the IS-MND and adopted as part of the Mitigation Monitoring and Reporting Program (MMRP).

Rincon also provided construction mitigation implementation services for drilling of the replacement well, which include a pre-construction roosting bat survey and protection plan, a pre-construction nesting bird survey, paleontological monitoring, and a construction noise reduction plan.

Relevance:

- IS-MND for water infrastructure project in single-family residential neighborhood
- Similar project issues, including construction-phase noise and transportation impacts near residences
- Demonstrated experience engaging with local community on environmental issues

Reference Information:
Taj A. Dufour, PE, Engineering Manager,
5180 Soquel Drive
Soquel, California 95073
831-475-8501 x 123 | tajd@soquelcreekwater.org

Dates: February 2021 to August 2023
Staff: Annaliese Torres (Project Manager)
Bill Vosti (Noise Specialist)

Santa Clarita Valley Water Agency

S Wells PFAS Groundwater Treatment and Disinfection Facility

Santa Clarita, California

Rincon completed technical studies and an IS-MND for the construction of a PFAS groundwater treatment and disinfection facility and installation of a new groundwater well, stormwater drainage pipelines, interconnection pipeline, influent pipeline, and roundabout improvements on a site adjacent to the Santa Clara River. Key issues for the project included biological resources due to the project's proximity to groundwater dependent ecosystems associated with the Santa Clara River, recreation due to the location of the project's temporary construction footprint within Bridgeport Park and the Santa Clara River Bike Trail, construction noise and traffic due to the project's location in a residential neighborhood and near Bridgeport Elementary School, and water quality due to the project's proximity to the Santa Clara River. During preparation of the IS-MND, Rincon collaborated with Santa Clarita Valley Water Agency (SCV Water) to develop construction best management practices to address temporary closure of one lane of the Santa Clara River Bike Trail and a portion of Bridgeport Park during construction (including limiting work to outside peak recreational hours, prohibiting construction staging and worker parking in the Bridgeport Park parking lot, and advance notification of local residents and recreational sports organizations). In addition, because project construction also required work within local roadways, Rincon development mitigation measure language to address potential transportation congestion during school pick-up/drop-off hours at the nearby elementary school and potential transit service conflicts due to work within an established transit route for Santa Clarita Transit. As part of this effort, Rincon staff also attended two public engagement meetings with local residents to respond to questions regarding the project's CEQA process.

Rincon also prepared NEPA documentation in support of United States Bureau of Reclamation funding awarded for this project, which consisted of completion of a Categorical Exclusion Checklist. In addition, Rincon prepared supplemental, federally-compliant biological and cultural resources memoranda to support SCV Water's environmental compliance for United States Environmental Protection Agency financing awarded through the Water Infrastructure Financing and Innovation Act program.

Relevance:

- IS-MND for water infrastructure project adjacent to a single-family residential neighborhood
- Technical studies meeting federal ESA and NHPA Section 106 requirements and NEPA documentation
- Similar project issues, including construction-phase noise, recreation, and transportation impacts
- Demonstrated experience engaging with local community on environmental issues

Reference Information:

Orlando Moreno, PE, Senior Engineer,
Santa Clarita Valley Water Agency
26521 Summit Circle
Santa Clarita, California 91350
661-705-7253 | omoreno@scvwa.org

Dates: January 2022 to June 2024

Staff: Annaliese Torres (Project Manager)
Michael Vader (Archaeologist)
Andrew McGrath (Paleontologist)
Ethan Knox (CEQA Analyst)

"All (Rincon) personnel that I have dealt with over the past year have been knowledgeable, available, and cordial with their work being both accurate and of the highest quality."

– Rick Vasilopulos, Water Resources Planner
Santa Clarita Valley Water Agency

City of San Luis Obispo

Water Resource Recovery Facility Project

San Luis Obispo, California

Rincon prepared a CEQA-Plus Environmental Impact Report (EIR) and federally-compliant technical studies for the implementation of a number of improvements/upgrades to the existing 55-acre Water Resource Recovery Facility, including new equipment installation, demolition of several components, roadway improvements, and new building construction. Key issues for the project included special-status wildlife species, impacts to existing recreational facilities and consistency with existing regulatory permit conditions from the National Marine Fisheries Service and local Regional Water Quality Control Board. In support of the pursuit of grant funding, Rincon also prepared the California Office of Emergency Services HMGP Environmental Questionnaire and the FEMA Site Information and Environmental Review Checklist to assess project impacts in accordance with California Office of Emergency Services and FEMA guidance. Rincon is now providing construction mitigation monitoring.

Relevance:

- Technical studies meeting federal ESA and Section 106 requirements
- Demonstrated experience with environmental documentation to support a FEMA HGMP application

Reference Information:
Miguel Barcenas, Deputy Director of Utilities
Engineering and Planning,
879 Morro Street
San Luis Obispo, California 93401
805-781-7507 | mbarcenas@slocity.org

Dates: July 2021 to Present
Staff: Shannon Carmack (Architectural Historian)
Andrew McGrath (Paleontologist)

The Metropolitan Water District of Southern California

On-Call Environmental Services

Various Locations, Southern California

Rincon provides on-call environmental consulting services to The Metropolitan Water District of Southern California (Metropolitan), which serves portions of six Southern California counties. Our program team has managed over 40 task orders for services at every stage of project implementation from resource assessments and CEQA/NEPA to permitting, funding, and construction monitoring, on time and within or under budget. Our team also responds nimbly to frequent short-notice requests for pre-construction surveys and biological monitoring for routine maintenance and emergency projects. Recent, relevant projects include, but are not limited to, the following:

- F.E. Weymouth Water Treatment Plant and La Verne Site Improvements Program EIR
- Garvey Reservoir Rehabilitation Project EIR and Technical Studies
- Lakeview Pipeline Repair Project IS-MND Addendum No. 2 and Technical Studies

Relevance:

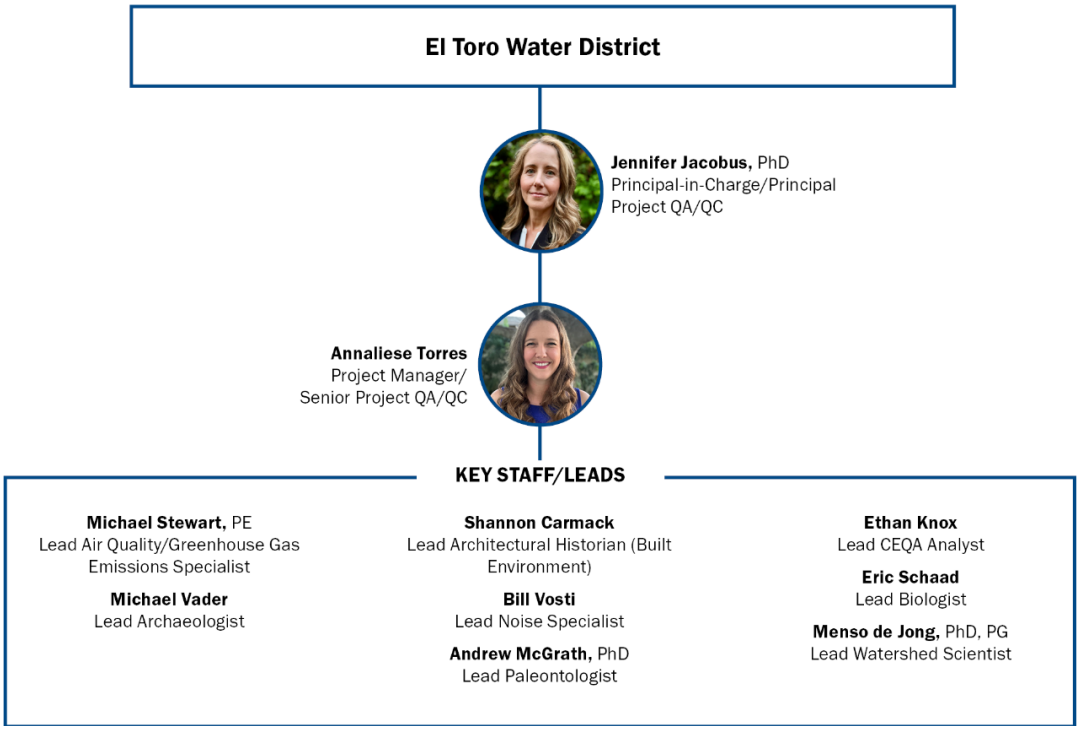
- CEQA documentation for major water infrastructure rehabilitation/replacement projects within and adjacent to single-family residential neighborhoods
- Similar project issues, including construction-phase noise and transportation impacts to residences

Reference Information:
Malinda Stalvey, Senior Environmental Specialist
700 North Alameda Street
Los Angeles, California 90012
213-217-5545 | mstalvey@mwdh2o.com

Dates: 2011 to Present
Staff: Jennifer Jacobus (Principal QA/QC)
Annaliese Torres (Program Manager)
Michael Vader (Archaeologist)
Shannon Carmack (Architectural Historian)
Andrew McGrath (Paleontologist)
Bill Vosti (Noise Specialist)
Ethan Knox (CEQA Analyst)

2 Organizational Chart

Illustrated below is the composition of our team. Rincon is capable of providing all requested services in-house and does not require any sub-consultants at this time.



3 Key Personnel

Resumes for Key Personnel

Rincon has assembled a team of highly skilled environmental science and planning professionals who combine extensive technical qualifications and knowledge of CEQA, NEPA, and NHPA Section 106 with several years of experience working with wastewater and water districts in the Southern California region. Brief resumes for all key team members are included on the following pages with detailed resumes in **Appendix A.**

Management Team

Annaliese Torres | Project Manager/Senior Project QA/QC

Annaliese is an adaptive project manager who strives to provide clients with tailored, flexible solutions to complex environmental challenges in a conscientious manner that accounts for the schedule, cost, and implementation constraints often facing wastewater and water agencies. She has experience preparing and managing a wide range of CEQA/NEPA documents and cross-disciplinary technical studies. She has worked with a number of wastewater and water agencies, including SCWD, Mesa Water District, Metropolitan, and SCV Water, and her experience includes overseeing preparation of environmental documentation for similar types of projects, such as the Moss Landing Wastewater Rehabilitation System project and the Heritage Ranch Water Reclamation Facility Upgrade project, as well as projects with similar key issues, such as the S Wells PFAS Groundwater Treatment and Disinfection Facility project and the Country Club Replacement Well and 1,2,3-TCP Removal Water Treatment Plant project. **Annaliese will serve as Project Manager for this assignment and will provide Senior Quality Assurance/Quality Control (QA/QC) for all deliverables.**

Jennifer Jacobus, PhD | Principal-in-Charge/Principal Project QA/QC

Dr. Jacobus has 20 years of professional experience and a reputation for customer service and client satisfaction. She focuses exclusively on water and wastewater clients and projects throughout California, delivering a diverse array of environmental services to meet the unique needs of each district and community. Jennifer has a successful record of completing CEQA/NEPA documents spanning a broad spectrum of wastewater and water projects. While at a previous firm, Jennifer served as Client Manager providing as-needed environmental services to Irvine Ranch Water District for over 13 years, completing more than $1 million of work and 20 task orders. **Dr. Jacobus will serve as the Principal-in-Charge and contract administrator and will provide principal QA/QC for all deliverables.**

Technical Team

Michael Stewart, PE | Lead Air Quality/Greenhouse Gas Emissions Specialist

Michael has over 12 years of experience preparing air quality and greenhouse gas (GHG) analyses in accordance with CEQA and NEPA as well as for air permitting purposes. His experience covers a variety of project sizes and complexities across a wide range of land use types, including renewable energy projects, residential developments, airports, warehouses, refineries, and data centers. Michael is proficient with various emissions models (e.g., California Emissions Estimator Model [CalEEMod], EMFAC), the AERMOD air dispersion modeling software, and health risk assessment modeling using the HARP2 model and Excel. **Michael will be responsible for overseeing completion of the air quality, construction health risk, energy, and GHG analyses under Task 2a.**

Michael Vader | Lead Archaeologist

Michael is a cultural resources specialist with experience conducting and managing archaeological surveys, excavation, and monitoring projects, as well as environmental compliance projects. Michael has worked on a variety of water, renewable energy, transportation, and utility projects throughout Southern California, including in Orange, San Diego, and Los Angeles counties. Michael has prepared cultural resources reports to support both CEQA and NEPA documentation needs for several wastewater and water projects, including the South Orange County Wastewater Authority's J.B. Latham Treatment Plant Facility Improvements Project and SCV Water's Sand Canyon Sewer Relocation Project. **Michael will be responsible for overseeing completion of the Cultural Resources Report under Task 2b.**

Shannon Carmack | Lead Architectural Historian (Built Environment)

Shannon has more than 24 years of professional experience providing cultural resources management and historic preservation planning for large-scale and high-profile projects. She has worked throughout California in numerous sectors including water and wastewater infrastructure, public utilities, local planning, development/construction, Department of Defense, transportation, recreation, and education. Shannon meets and exceeds requirements in the Secretary of the Interior's Professional Qualifications Standards in Architectural History and History. Her experience includes serving as Principal Architectural Historian for Metropolitan and Montecito Water District projects. **Shannon will be responsible for overseeing completion of the built environment cultural resources analysis under Task 2c.**

Bill Vosti | Lead Noise Specialist

Bill has 10 years of experience preparing noise technical analyses in accordance with CEQA and NEPA. Bill is proficient with various noise prediction models (e.g., CadnaA, SoundPLAN, and the Federal Highway Administration's Traffic Noise Model). His experience includes noise analyses for water and wastewater agencies across California, including several projects in Orange County, such as Orange County Sanitation District's Newhope-Placentia Trunk Sewer Replacement Nos. 2-72A and 2-72B and Moulton Niguel Water District's Oso Creek/Interstate 5 Pipeline Improvements IS-MND. Bill also leads Rincon's Air Quality, GHG, and Noise Program by managing technical staff and providing quality assurance reviews. **Bill will be responsible for overseeing completion of the noise analysis under Task 2d.**

Andrew McGrath, PhD | Lead Paleontologist

Dr. McGrath has three years of experience as a paleontological resources consultant. and nine years of paleontological research experience, including fieldwork in California and Bolivia, presentations at international research conferences, and multiple first-author publications. Andrew has conducted construction monitoring and field surveys and prepared technical documents in compliance with a variety of federal, State, and municipal regulatory agencies. He recently worked on Metropolitan's Prestressed Concrete Cylinder Pipe Rehabilitation Program Reach 3a Project and Casitas' East and West Ojai Avenue Pipeline Replacement project. **Dr. McGrath will be responsible for overseeing completion of the paleontological resources analysis under Task 2e.**

Ethan Knox | Lead CEQA Analyst

Ethan is a dedicated environmental professional and proficient analyst with experience preparing environmental analyses pursuant to CEQA and NEPA. Ethan contributes experience working with environmental non-profit organizations that closely interact with regulatory agencies such as the State Water Resources Control Board. Ethan's experience includes preparing CEQA analyses for SCWD's Reservoir 2B Replacement Project, Metropolitan's F.E. Weymouth Water Treatment Plant and La Verne Site Improvements Program, and the City of Oxnard's Central Trunk Rail Yard Crossing and Lift Station Project. **Ethan will be the primary author of the Project Description, Administrative and Screencheck Draft IS-MND, Public Draft IS-MND, and Final IS-MND under Task 3.**

Eric Schaad | Lead Biologist

Eric has 18 years of experience as a biological researcher, educator, and environmental consultant. His experience includes preparing and consulting on regulatory permits for federal and California endangered species, federal and California waters impacts, and conducting biological research and fieldwork consistent with agency protocols. Eric has extensive experience in federal Endangered Species Act Section 7 and Section 10 consultation as well as technical report preparation and review. He is serving as the Lead Biologist for SCWD's Aliso Creek Urban Runoff Recovery, Reuse, and Conservation Project and is also the Lead Regulatory Specialist for United Water Conservation District and Casitas projects. **Eric will be responsible for overseeing completion of the biological resources analysis in support of the Administrative and Screen Check Draft IS-MND under Task 3b and for providing as-needed support to Responses to Comments prepared under Task 3d.**

Menso de Jong, PhD | Lead Watershed Scientist

Dr. de Jong has experience evaluating existing water resources, developing approaches for resource development, providing scientific support and oversight during new well construction, and conducting technical field and analytical work in support of well yield testing and aquifer characterization. He has contributed to well siting and water resource evaluation studies in numerous technically challenging and regulation-limited environments, and his experience includes serving as a technical lead for an assessment of the impacts of construction dewatering for the South San Luis Obispo Community Services District's Wastewater Treatment Facility Upgrades project to nearby surface water bodies, including Arroyo Grande Creek Lagoon and Meadow Creek Lagoon. **Dr. de Jong will be responsible for providing strategic advising on construction dewatering constraints if Optional Task 5 is authorized.**

4 Current and Future Workload of Staff

Staff Availability

Rincon is of a sufficient size that it has the availability and time to dedicate personnel and resources to successfully assist ETWD with CEQA compliance for the ACLS Rehabilitation project, as well as execute a number of projects concurrently. Currently, our key personnel are working on a range of projects, including on-call assignments for SCWD, Metropolitan, and SCV Water, and will bring lessons learned and institutional knowledge from those projects to successfully execute CEQA compliance for this project. We are experts in managing work programs involving multiple concurrent assignments and are successfully executing several similar assignments. We encourage you to contact our current clients about our ability to manage a high volume of work within strict timeframes characterized by intensive activity. We are highly confident that our current workload, while strong, will not interfere with this assignment from ETWD. The table below provides staff availability to accomplish the scope of work.

Project Team Availability

Team Member	Role for Project	Availability
Jennifer Jacobus	Principal-in-Charge/Contract Administrator	10%
Annaliese Torres	Project Manager/Senior Quality Assurance/Quality Control	35%
Michael Stewart	Lead Air Quality/Greenhouse Gas Emissions Specialist	10%
Michael Vader	Lead Archaeologist	25%
Shannon Carmack	Lead Architectural Historian (Built Environment)	15%
Bill Vosti	Lead Noise Specialist	15%
Andrew McGrath	Lead Paleontologist	15%
Ethan Knox	Lead CEQA Analyst	50%
Eric Schaad	Lead Biologist	20%
Menso de Jong	Lead Watershed Scientist	15%

5 Scope of Work

Project Understanding

The Aliso Creek Lift Station (ACLS) Rehabilitation Project (project) involves construction of a new wet well and reconfiguration of electrical equipment, conversion of the existing dry pit into emergency storage, installation of a replacement generator and yard piping, and modifications to facility access. ETWD intends to pursue FEMA HMGP funding for the project during the next funding cycle and prefers to have the CEQA documentation completed by the time of application submittal to support the determination that the proposed project is "shovel ready." If FEMA HMGP funding is not awarded, ETWD has budgeted capital funds to construct the project in Fiscal Year 2026/2027. Given these constraints, the earliest anticipated construction start date is July 2026.

Aliso Creek Lift Station Project Site

Based on the scope of services requested in the RFP, the following scope of work assumes an IS-MND will be prepared for the project. However, replacement and reconstruction projects typically qualify for a Class 2 Categorical Exemption under CEQA. **In the event the technical studies completed under Task 2 suggest the proposed project would not result in significant environmental effects, Rincon will consult with ETWD to determine an appropriate course of action, which may involve reducing this scope of work to prepare a Notice of Exemption and a supporting Class 2 Categorical Exemption memorandum, pursuant to *CEQA Guidelines* Section 15302.** In addition, Rincon will proactively alert ETWD if we identify any potential modifications to design or construction parameters that would facilitate the project's ability to comply with the requirements of a Class 2 Categorical Exemption for streamlining the CEQA process.

Task 1 Project Management and Meetings

Task 1a Project Management

Under Task 1a, Rincon will provide overall project management and coordination. The Rincon Project Manager will serve as the main point-of-contact between Rincon and ETWD staff and will communicate and coordinate regularly with ETWD staff to provide updates, follow-up on action items, and engage in proactive budget and schedule management. The Rincon Project Manager will prepare and submit concise monthly status reports with monthly invoices in accordance with ETWD requirements, including a summary of expenditures and work progress by task, an estimate of actual percent complete based on progress compared to budget expenditure, and an updated progress schedule in a Gantt-type format. The Rincon Project Manager will maintain detailed records of project communications, decisions, and progress to facilitate anticipated ETWD staff transitions during completion of this scope of work and to enable the Rincon team to respond rapidly to changes in project requirements. The Rincon Project Manager will also provide consistent control of task costs, schedule, staffing, technical performance, and deliverables through weekly tracking. The Rincon Project Manager will identify and avoid problems by thoroughly planning the scope of work; clearly communicating with ETWD, and closely monitoring the performance of Rincon staff. The Rincon Project Manager will bring issues that cannot be immediately resolved to the attention of ETWD.

Task 1b Meetings

Upon notice to proceed, the Rincon Project Manager will schedule and conduct a one-hour, virtual kickoff meeting with ETWD and other project participants. Up to two Rincon team members will attend the kickoff meeting. The purpose of the kickoff meeting will be to introduce project participants, review and confirm the approved scope of work and project approach, review and discuss data requests for the Project Description that will be prepared by Rincon, establish communication protocols, confirm the project schedule and key milestones, and discuss other related project information. In addition, Rincon's Project Manager will facilitate monthly, one-hour, virtual progress meetings with ETWD staff. The purpose of these meetings will be to review and discuss project status, schedule/milestones, upcoming activities, and needs/concerns. For all meetings, Rincon will provide an agenda at least one business day in advance and will prepare and circulate detailed meeting minutes with action items and a decision log within five days of the meeting.

Task 2 Technical Studies

Task 2a Air Quality, Construction Health Risk, Energy, and Greenhouse Gas Emissions

Rincon will undertake the following tasks to conduct air quality, construction health risk, energy, and greenhouse gas emissions analyses:

- **Task 2ai: Air Quality Assessment.** Rincon will prepare an air quality assessment to evaluate air quality impacts from the construction and operation of the project, consistent with South Coast Air Quality Management District (SCAQMD) standards and thresholds and *CEQA Guidelines* Appendix G thresholds. The CalEEMod will be used to calculate emissions, and if emissions are determined to exceed thresholds, Rincon will identify mitigation measures to reduce impacts to the degree feasible. Rincon will also qualitatively evaluate health effects of criteria air pollutant and toxic air contaminant emissions, the potential for the project to result in odorous emissions and carbon monoxide hotspots, and the potential for the project to conflict with the SCAQMD air quality management plan. The results of the analysis will be included in the IS-MND with an appendix for modeling outputs.
- **Optional Task 2aii: Construction Health Risk Assessment.** Due to the location of sensitive receptors adjacent to and within 1,000 feet of the project site, construction has the potential to result in health risk impacts depending on the duration, the amount of haul trips, and the quantity and type of construction equipment. Preparation of a quantitative Health Risk Assessment (HRA) is recommended for evaluating construction-phase toxic air contaminant impacts to nearby sensitive receptors if the project does not include the use of construction equipment greater than 50 horsepower meeting United States Environmental Protection Agency Tier 4 emissions standards, equipped with California Air Resources Board Level 3 diesel particulate filters, or that is alternatively fueled (non-diesel). If this optional task is authorized, Rincon would prepare a Construction HRA that quantifies health risk associated with diesel particulate matter emissions in accordance with the latest Office of Environmental Health Hazard Assessment guidance. The analysis would use construction emissions estimated under Task 2ai and conduct dispersion modeling using the AERMOD model. AERMOD outputs would be converted into specific cancer risks and non-cancer chronic health hazard impacts using either the HARP2 Modeling and Risk Tool or a standalone in-house spreadsheet. The findings of the HRA would be summarized directly in the IS-MND, with model outputs included as an appendix. If health risks are determined to exceed applicable SCAQMD thresholds, Rincon would identify potential mitigation measures to reduce impacts to the degree feasible.
- **Task 2aiii: Energy Assessment.** The energy analysis will consider the project's potential to result in potentially significant environmental impacts due to wasteful, inefficient, or unnecessary consumption of energy resources or conflicts with state or local plans for renewable energy or energy efficiency. In support of this analysis, energy use will be quantified using CalEEMod parameters obtained under Task 2ai and in-house calculation spreadsheets. The analysis will also qualitatively evaluate the project's consistency with applicable energy plans, including goals and policies of the City of Laguna Wood's General Plan related to energy. Findings of the energy assessment will be included in the IS-MND with an appendix for modeling outputs.
- **Task 2aiv: GHG Emissions Assessment.** Rincon will quantify GHG emissions impacts from construction and operation of the project using CalEEMod for comparison to an emissions-based threshold, such as the SCAQMD-recommended thresholds. The assessment will include a brief summary of the applicable environmental and regulatory framework pertinent to GHG emissions. The assessment will also evaluate the project's compliance with applicable state and local GHG reduction plans, policies, and regulations, including whether the project will impede attainment of the 2030 and 2050 reduction goals identified in Senate Bill 32 and Assembly Bill (AB) 1279. The results of the GHG emissions assessment will be included in the IS-MND with an appendix for modeling outputs.

Task 2b Cultural Resources – Archaeology

Rincon will undertake the following tasks to identify the presence of cultural resources in support of CEQA and NHPA Section 106 compliance as well as FEMA's consultation with the State Historic Preservation Officer (SHPO):

- **Task 2bi: Records Search.** Rincon will request a records search through the California Historical Resources Information System (CHRIS) South Central Coastal Information Center that will encompass the project site

and a one-mile radius. In addition, Rincon will examine the following databases to identify cultural resources that may be impacted by the project: National Register of Historic Places, California Register of Historical Resources, California Historic Property Data File, Built Environment Resources Directory, Archaeological Determinations of Eligibility, and lists of California Historical Landmarks and California Points of Historical Interest. A review of historical maps and aerial photographs, geologic and soils maps, and geotechnical studies will also be conducted to provide a development history of the project and assess its subsurface archaeological sensitivity. (Guidance provided by the California Office of Historic Preservation recommends CHRIS records searches be no more than two years old. Should FEMA and SHPO review be conducted after two years have elapsed, an updated CHRIS records search may be required.)

- **Task 2bii: Sacred Lands File.** Rincon will contact the California Native American Heritage Commission (NAHC) to request a Sacred Lands File search and a list of Native American contacts. The Sacred Lands File search will indicate whether cultural resources of interest to Native Americans are present within the project site. The NAHC will provide a list of Native American contacts culturally affiliated with the project site vicinity. With ETWD's approval, Rincon will conduct informal Native American outreach, which will consist of emailing letters with a description of the project and its location to up to 20 individuals included in the Native American contact list. Rincon will allow two weeks for review, then will follow-up up to two times by phone call and/or email with contacts that have not responded to document a "good faith" effort. A contact log documenting these efforts with an example letter and replies will be included in the Cultural Resources Report prepared under Task 2biv.
- **Task 2biii: Cultural Resources Pedestrian Survey.** Upon completion of the CHRIS records search under Task 2bi, Rincon will conduct an intensive-level cultural resources pedestrian survey of accessible portions of the project site to characterize its current condition and identify the presence of archaeological resources.
- **Task 2biv: Cultural Resources Report.** Upon completion of the tasks described above, Rincon will prepare a Section 106- and CEQA-complaint Cultural Resources Report aligned with FEMA expectations and following the California Office of Historic Preservation's Archaeological Resource Management Reports: Recommended Contents and Format. The report will include a description of the project and its Area of Potential Effects (APE), provide the applicable environmental and cultural contexts for the APE and its vicinity, outline the appropriate regulatory framework, and present the methods and results of Tasks 2bi through 2biii. The report findings will include recommendations for additional studies or avoidance and minimization measures, if deemed necessary. Upon ETWD approval, a copy of the final report will be filed with the South Central Coastal Information Center.

  Should FEMA HMGP funding be received and if FEMA consents, Rincon will draft a concurrence letter to the SHPO presenting the findings of the Cultural Resources Report. The letter will request SHPO concurrence on the finding of effect recommended in the Cultural Resources Report.

Task 2c Cultural Resources – Built Environment

Rincon understands the ACLS was constructed in 1965 and therefore exceeds the 45- and 50-year age thresholds for consideration as a historical resource and a historic property pursuant to CEQA and Section 106, respectively. As such, Rincon will formally document the ACLS on California Department of Parks and Recreation (DPR) 523 Series forms and conduct a California Register of Historical Resources and National Register of Historic Places evaluation of the ACLS.[1] To support the evaluation of the ACLS, Rincon will conduct archival (i.e., background) research to assess its development history and to ascertain relevant associations with individuals or events significant to the region. Construction materials, condition, and alterations of the ACLS will also be discussed. Archival research will include review of available materials including as-built plans and maintenance records.

To provide cost efficiencies, documentation of the ACLS on DPR 523 forms will be completed during the cultural resources survey conducted under Task 2biii by a cultural resources specialist qualified to conduct both an intensive-level cultural resources pedestrian survey and a built environmental survey under the direction of an architectural historian meeting the Secretary of the Interior's Professional Qualifications Standards.[2] In addition, the historic resources evaluation of the ACLS will be incorporated directly into the Cultural Resources Report

[1] An evaluation of local criteria is not included in this scope of work, because the City of Laguna Woods has not adopted such criteria.

[2] Based on the size of the ACLS and our professional experience, we do not believe the presence of two architectural historians, as specified in the RFP, is necessary to adequately conduct a built environment survey of the ACLS.

prepared under Task 2biv rather than provided as a separate technical report. In our experience, this approach is suitable for achieving compliance with CEQA and Section 106. DPR 523 forms documenting the recordation and evaluation of the ACLS will be appended to the Cultural Resources Report.

As part of this task, Rincon will also conduct historical society outreach to solicit information regarding historic-period resources within the APE. Rincon will email letters that include a description of the project and its location to up to two local historical societies and other relevant organizations. Rincon will allow two weeks for review, then will follow-up up to two times by phone call and/or email with contacts that have not responded to document a "good faith" effort. A contact log documenting these efforts will be attached to the Cultural Resources Report prepared under Task 2biv in an appendix with a sample letter and all replies.

Task 2d Noise

Rincon will prepare a noise and vibration analysis consistent with ETWD and City of Laguna Woods standards. Rincon will conduct up to four short-term (15-minute) measurements on site and at nearby off-site locations. Construction noise and vibration levels from the project will be analyzed using data from the Federal Highway Administration Roadway Construction Noise Model and will be quantified at up to four of the nearest representative noise-sensitive receivers. Noise generated by on-site stationary noise (e.g., pump equipment and generator) will be quantified at nearby noise-sensitive receivers. If significant noise impacts are identified, mitigation measures will be developed to avoid or minimize such impacts to the extent feasible. The results of the analysis will be included in the IS-MND with an appendix for modeling outputs.

Task 2e Paleontological Resources and Geology and Soils

Rincon will conduct a paleontological resources study to identify the geologic units that may be impacted by project development, determine the paleontological sensitivity of geologic unit(s) within the project site using the Society of Vertebrate Paleontology paleontological sensitivity classification system, assess potential for impacts to scientifically important paleontological resources under state and federal guidelines, and recommend mitigation measures to avoid or mitigate impacts to scientifically significant paleontological resources, if necessary. The paleontological resource analysis will be designed to support CEQA and NEPA documentation and will consist of reviewing existing geologic maps, searching online museum databases (e.g., University of California Museum of Paleontology), and examining primary literature regarding fossiliferous geologic units within the project vicinity and region. Rincon will also complete a records search with the Natural History Museum of Los Angeles County. The results of the paleontological analysis will be included in the Geology and Soils section of the Administrative Draft IS-MND prepared under Task 3b.

Rincon will also review the geotechnical and soils reports prepared for the project as well as publicly available geologic and seismic hazards data and maps from the California Geological Survey, United States Geological Survey, and California Emergency Management Agency to assess potential project impacts to geology and soils under CEQA. The analysis will rely on compliance with existing regulations and seismic design standards to the extent feasible and will focus on considering whether the project would exacerbate the potential for geologic and seismic hazards to occur. This analysis will be incorporated directly into the Geology and Soils section of the Administrative Draft IS-MND prepared under Task 3b.

Task 3 Initial Study-Mitigated Negative Declaration

Task 3a Project Description

Rincon will prepare a project description to inform the analyses included in this scope of work, based on project design information provided by ETWD and TetraTech. Rincon will review technical studies and design plans prepared for the project to date and submit a written data request to ETWD for any supplemental information necessary to develop the project description. The project description will describe the project in text, graphic, and tabular form and will provide a discussion of project background; the project site; project components; construction parameters; operational activities; and required discretionary actions and permit approvals. The project description will also include figures of the project location and project footprint and key project plan drawings as provided by ETWD/TetraTech. Because the environmental documentation will be prepared as project design progresses, we recommend evaluating a conservative project footprint and conservative construction parameters to allow for flexibility in final design and contractor means and methods.

Task 3b Administrative and Screen Check Draft IS-MND

Rincon will prepare an Administrative Draft (internal review) IS-MND for the proposed project in accordance with ETWD's Local Guidelines for Implementing the California Environmental Quality Act (2021) and using the CEQA Guidelines Appendix G checklist as the significance thresholds. The CEQA analysis within the IS-MND will discuss existing conditions, thresholds of significance, methodology for impact assessments, project-specific impacts and mitigation measures, cumulative impacts, and residual impacts for the proposed project. The focus of the analysis will be to avoid or minimize potential impacts and to propose appropriate mitigation where potential impacts may occur. The IS-MND will incorporate the results of the technical studies prepared under Task 2. Additional information will be gathered from various online databases and documents on file with ETWD and other agencies. Rincon will also conduct a biological resources literature review and field reconnaissance survey in support of the IS-MND.[3] Key issues in the IS-MND are anticipated to include air quality, noise, and transportation during construction due to the project site's proximity to residences within Laguna Woods Village, as well as biological resources and hydrology/water quality due to the project site's proximity to Aliso Creek and the anticipated construction-phase dewatering activities. Comments received on the Administrative Draft IS-MND will be incorporated in tracked changes, and a Screen Check Draft IS-MND will be provided to ETWD for final review and approval.

Task 3c Public Draft IS-MND

Rincon will incorporate comments received on the Screen Check Draft IS-MND and submit a print-ready Public Draft IS-MND to ETWD in PDF format. Rincon will also prepare a Notice of Intent (NOI) to Adopt the MND and will submit the NOI to the State Clearinghouse and the Orange County Clerk. In addition, Rincon will prepare and submit a Notice of Completion and Summary Form to the State Clearinghouse. In consultation with ETWD, Rincon will prepare a draft mailing list of property owners within a 1,000-foot radius of the project site. Rincon will distribute hard copies of the black-and-white NOI (assumed not to exceed four pages in length) to up to 100 recipients via regular mail. Rincon will also provide language and project maps to ETWD for use in notifying the public of the Draft IS-MND via local newspapers, mailers, and websites.

Task 3d Final IS-MND

Upon receipt of public comments on the Public Draft IS-MND, Rincon will prepare and submit an electronic copy of the draft responses to comments, Administrative Final IS-MND and draft MMRP, to ETWD, including any added or substantially revised sections of the Public Draft IS-MND that may be necessary. Based on recent ETWD experience and the project site's proximity to Aliso Creek and existing residences, Rincon anticipates comment letters to be received from the Juaneño Band of Mission Indians, California Department of Fish and Wildlife, and up to 10, brief (under three pages) comment letters from non-profit organizations and individuals in the community. Comments on the draft documents will be incorporated in tracked changes, and the Final IS-MND, Responses to Comments, and MMRP will be provided to ETWD in PDF format. Upon adoption of the Final IS-MND and MMRP and project approval, Rincon will prepare and file a Notice of Determination with the Orange County Clerk and State Clearinghouse within five days of project approval. As long as the project design and construction/operational parameters remain within those described in the Final IS-MND, the Final IS-MND does not have a "shelf life" and will remain valid until the project is complete.

Optional Tasks

Rincon has identified the following optional tasks that may benefit ETWD's completion of the CEQA and NEPA processes for the project.

Optional Task 4 Additional AB 52 Consultation Support

Under AB 52 (California Government Code Section 21080.3.1[a]), ETWD, as the CEQA lead agency, is required to undertake government-to-government consultation efforts with California Native American Tribes that are traditionally and culturally affiliated with the project site that have previously requested in writing to be notified of projects within their area of interest. If desired, Rincon can assist ETWD with AB 52 consultation by providing

[3] Should more than two years elapse between the time of the biological resources literature review and FEMA review, FEMA may require an updated literature review be conducted to confirm no new special-status species should be considered. An updated biological reconnaissance survey may also be required if more than four years elapse between the time of the field survey and FEMA review.

letter notification letter templates, a tracking log template, and detailed instructions for conducting meaningful consultation with interested Native American groups in accordance with AB 52. After receipt of letters, Native American Tribes have 30 days to reply to a request for consultation under AB 52. Rincon assumes ETWD would use the provided templates to contact all Tribes on ETWD's AB 52 contact list or the NAHC contact list (obtained under Task 2bi). Under this task, Rincon can also prepare for and attend up to three, one-hour, virtual meetings with ETWD and Native American contacts. Following each meeting, Rincon would prepare meeting notes for circulation. Rincon would also provide up to six hours of additional support to ETWD staff in the AB 52 consultation process, such as drafting responses to emails and requests from Tribes.

Optional Task 5 Strategic Advising on Construction Dewatering

As indicated by ETWD, dewatering would be required during project construction due to high local groundwater levels, and the current plan is to discharge produced groundwater to ETWD's sanitary sewer or a storm drain. Under certain conditions, groundwater dewatering in close proximity to a surface water body, such as Aliso Creek, may impact surface water flows, which could result in potential indirect impacts to habitat for special-status species that may be supported by Aliso Creek, such as southwestern pond turtle and least Bell's vireo (*Vireo bellii pusillus*) habitat could result. Rincon's preliminary research also indicates the nearest mapped groundwater-dependent ecosystem is approximately 0.5-mile upgradient along the Aliso Creek riparian corridor. If desired, Rincon can provide strategic advising to ETWD on the potential for impacts to Aliso Creek to occur based on the proposed dewatering rate, duration, and timing and can advise on the benefits of challenges of various groundwater discharge options based on National Pollutant Discharge Elimination System permit requirements and environmental impacts. Rincon can also prepare technical analyses, such as estimating the radius of influence for dewatering, that may be required to support the IS/MND and/or permitting for dewatering. In total, this task includes up to 38 hours of support for advising on construction dewatering options.

Optional Task 6 Public Meeting Attendance

If desired, Rincon can attend public meetings held for the project to provide an overview of the project's CEQA and NEPA compliance processes and answer questions pertaining to the project's environmental impacts. This optional task includes time for the Rincon Project Manager to attend up to three public meetings in-person, assumed not to exceed three hours in length each. These meetings may include a community meeting in the Laguna Woods area during preparation of the Administrative Draft IS-MND, a Board of Directors meeting during public review of the Draft IS-MND, and a Board of Directors meeting for adoption of the Final IS-MND. For each of these meetings, Rincon can prepare presentations tailored to each audience and the current stage of the CEQA/NEPA documents with text and graphics that explain the environmental process in a lay-friendly manner.

Optional Task 7 FEMA Checklist and Support

If desired, Rincon can prepare the FEMA Site Information and Environmental Review Checklist to assess the project's environmental impacts in accordance with FEMA's guidance. Pursuant to FEMA's checklist format, Rincon would populate the project description, provide information on the required federal permits and approvals, and indicate the physical, biological, land use and socioeconomic, historic and cultural, hazardous/toxic, energy and utility, public service, and transportation characteristics of the project site and vicinity. In collaboration with ETWD and TetraTech, Rincon would provide a discussion of alternative locations and project designs and fill out the checklists for CEQA Significant Factors and FEMA's Extraordinary Circumstances, which will guide the determination of whether the project will qualify for use of a Categorical Exclusion. Rincon would also describe the measures adopted as part of the CEQA process to address potential environmental impacts. Additional narrative responses and required exhibits would be prepared, such as a floodplain map, a description of existing habitat conditions, a United States Fish and Wildlife Service Official IPaC list, and an environmental justice analysis. (This scope of work does not include preparation of a Visual Impact Assessment, which may be required by FEMA.) If requested by FEMA, Rincon can also provide an updated cultural resources records search and prepare a standalone Biological Evaluation Report that presents a biological resources analysis focused on federally-protected resources (e.g., southwestern pond turtle [*Actinemys pallida*; federal candidate], least Bell's vireo [federally endangered]) based on the analysis and reconnaissance survey conducted under Task 3b. Rincon would also provide as-needed support in navigating FEMA's environmental process, which can be used for responding to agency inquiries, attending meetings, and providing supplemental documentation. In total, this task includes up to 100 hours of support for navigating FEMA's environmental compliance process, which can be used to accomplish the aforementioned tasks or other related tasks on an as-needed basis.

Key Assumptions

Task Number	Assumptions
1	• Project management will be required for up to a 12-month period, and notice to proceed will be given no later than October 2024.
2a	• ETWD will provide data relative to anticipated construction methods and timing, export and import of soils and materials, energy use, and equipment used during construction and operation. • No project design changes will occur after air emission/GHG modeling has begun. All equipment can be modeled in CalEEMod.
2b	• The CHRIS records search will not exceed a direct cost of $1,200. • The pedestrian survey will be conducted by one cultural resources specialist in the span of an eight-hour day, including travel time. No archaeological testing or evaluation will be conducted, and no archaeological artifacts, samples, or specimens will be collected. No cultural resources will be identified within the APE as a result of the CHRIS records search and survey. • The Native American outreach under this task does not constitute formal government-to-government consultation pursuant to Section 106 or Assembly Bill 52. • One round of comments from FEMA will be addressed on the SHPO concurrence letter.
2c	• No additional cultural resources aside from the ACLS will require documentation and evaluation.
2d	• The use of heavy equipment during nighttime construction activities will not be required. • ETWD will provide noise specifications for pump and generator equipment.
2e	• The paleontological resources records search will not exceed a direct cost of $300.[1] • No fieldwork or additional geotechnical investigation will be necessary to complete the analysis.
3a	• No changes to the project description will occur once ETWD has reviewed and approved it.
3b	• The field survey will be completed by one biologist in one four-hour day, including travel time. • The identification of potential special-status species habitat will be based on a suitability analysis level only; the biological resources reconnaissance survey does not include definitive surveys for the presence or absence of a species. Protocol-level surveys will not be required. • ETWD will provide signed copies of the AB 52 consultation letters and a completed consultation tracking log documenting ETWD's consultation efforts for incorporation into the IS-MND.
3c	• ETWD will be responsible for publishing the NOI in a local newspaper.
3d	• Up to 10 brief (under three pages) comment letters will be received on the Public Review Draft IS-MND that can be adequately responded to in a maximum of 30 professional staff hours. • Rincon will be responsible for payment of the CDFW NOD filing, which we assume will not exceed a direct cost of $3,250. Based on prior experience filing CEQA notices for public agency projects with the Orange County Clerk, we do not anticipate a County filing fee will be required.
General	• ETWD will provide GIS spatial data of the project limits of disturbance, including staging areas. • The depth of project construction will be 27 feet below the ground surface and may extend into previously undisturbed native soils. • ETWD will authorize Rincon to serve as an Authorized Submitter on its behalf in the CEQASubmit system. • Should supplemental work be required by FEMA due to the passage of time (e.g., updated cultural records search), such work would be conducted under separate scope and cost.
Fieldwork	• No access issues will be encountered during any field surveys. • Rincon is not responsible for delays due to weather, site conditions (e.g., prohibited access, flooding, fire, safety) or other conditions out of Rincon's control.
Deliverables	• Rincon will respond to one round of comments from ETWD on each project deliverable, to be provided as a consolidated set of comments in editable electronic format (i.e., as tracked changes in Word). All comments will clearly indicate the requested changes. If there are multiple reviewers, ETWD will be responsible for reconciling conflicting comments prior to sending to Rincon. No additional analysis or fieldwork will be required to address ETWD comments. • A PDF and Word version of each project deliverable will be provided; no hard copies will be provided unless otherwise specified in the scope of work. Digital accessibility compliance is not included.
Other	• No jurisdictional waters permits will be necessary.

[1] Based on our site review and professional experience, the paleontological resources records search will only cover one quadrangle, which would incur a cost of $300 rather than $1,000 as stated in the RFP.

6 Estimated Hours for Tasks

The following table presents our estimated hours for the individual tasks and subtasks outlined in Section 5, *Scope of Work*, and are consistent with the hours shown in the fee proposal, which is provided under separate cover as requested by the RFP.

Task		Total	Principal/Director	Supervising Professional	Senior Professional II	Senior Professional I	Professional IV	Professional III	Professional II	GIS Specialist II	Publishing Specialist	Project Accountant	Billing Specialist/ Clerical
Task 1	**Project Management and Meetings**												
Task 1a	Project Management	41	2	–	24	–	–	–	–	–	–	1	14
Task 1b	Meetings	28	2	–	26	–	–	–	–	–	–	–	–
Task 2	**Technical Studies**												
Tasks 2ai, 2aiii, and 2iv	Air Quality, Energy, and GHG Emissions	43	–	–	11	–	32	–	–	–	–	–	–
Task 2b	Cultural Resources – Archaeology	81	7	–	24	1	19	22	–	7	1	–	–
Task 2c	Cultural Resources – Built Environment	26.5	2.5	–	–	3	–	19	–	2	–	–	–
Task 2d	Noise	35	–	4	–	–	24	–	5	2	–	–	–
Task 2e	Paleontological Resources and Geology and Soils	24	2	–	–	–	10	6	4	2	–	–	–
Task 3 - Initial Study-Mitigated Negative Declaration													
Task 3a	Project Description	23	3	–	6	–	–	–	10	4	-	–	–
Task 3b	Administrative and Screen Check Draft IS-MND	154	14	2	20	30	–	20	60	5	3	–	–
Task 3c	Public Draft IS-MND	19	1	–	6	–	–	–	4	–	8	–	–
Task 3d	Final IS-MND	50	6	6	12	–	–	–	24	–	2	–	–
Optional Tasks													
Task 2aii	Construction HRA	35	–	–	34	–	–	–	–	1	–	–	–
Task 4	Additional AB 52 Consultation Support	26	3	–	–	18	–	4	–	–	1	–	–
Task 5	Strategic Advising on Construction Dewatering	38	6	8	24	–	–	–	–	–	–	–	–
Task 6	Public Meeting Attendance	33	3	–	24	–	–	–	–	3	3	–	–
Task 7	FEMA Checklist and Support	100	8	6	32	20	–	–	24	6	4	–	–
Total	**No Optional Tasks**	**524.5**	**39.5**	**12**	**129**	**34**	**85**	**67**	**107**	**22**	**14**	**1**	**14**
Total	**With Optional Tasks**	**765.5**	**59.5**	**26**	**243**	**72**	**85**	**71**	**131**	**32**	**22**	**1**	**14**

7 Project Schedule

The Rincon team is prepared to begin the work program described in this proposal immediately upon authorization to proceed. As depicted on the following chart, Rincon proposes to adhere to an expedited schedule; assuming notice to proceed is provided by the end of September, the CEQA process can be concluded by the end of April 2025, prior to ETWD's anticipated FEMA HMGP application submittal date of July 2025.

Key Task	Duration	Dates
Task 1 Project Management and Meetings		
Kickoff Meeting	Within 1 week of notice to proceed	By 10/4/24
Monthly Progress Meetings	Ongoing	Ongoing
Task 2 Technical Studies[1]		
Prepare Draft Cultural Resources Report	12 weeks[2]	10/7/24 – 12/24/24
ETWD Review of Draft Cultural Resources Report	2 weeks	12/30/24 – 1/10/24
Prepare Final Cultural Resources Report	2 weeks	1/13/24 – 1/17/24
Task 3 IS-MND		
Prepare Draft Project Description	2 weeks[2]	10/7/24 – 10/18/24
ETWD Review of Draft Project Description	2 weeks	10/21/24 – 11/1/24
Prepare Final Project Description	1 week	11/4/24 – 11/8/24
Prepare Administrative Draft IS-MND	8 weeks[2]	11/11/24 – 1/3/24
ETWD Review of Administrative Draft IS-MND	2 weeks	1/6/24 – 1/17/24
Prepare Screen Check Draft IS-MND and Public Review Noticing	2 weeks	1/20/24 – 1/31/24
ETWD Review of Screen Check Draft IS-MND	1 week	2/3/24 – 2/7/24
Prepare Public Review Draft IS-MND	1 week	2/10/24 – 2/13/24
Public Review Period	30 days	2/14/24 – 3/17/24
Prepare Administrative Final IS-MND and Draft Responses to Comments, MMRP, and NOD	3 weeks	3/18/24 – 4/4/24
ETWD Review of Administrative Final IS-MND, Responses to Comments, MMRP, and NOD	2 weeks	4/7/24 – 4/18/24
Prepare Final IS-MND, Responses to Comments, MMRP, and NOD	10 days	4/21/24 – 4/30/24

[1] The analyses prepared under Tasks 2a, 2d, and 2e will be incorporated directly into the Administrative Draft IS-MND prepared under Task 3 and will be provided along the same schedule of the Administrative Draft IS-MND.

[2] These timeframes initiate upon the receipt of GIS files of the project disturbance area, project plans, and a completed data request.

8 Insurance, Contract, and Addenda

Rincon will provide ETWD the requested insurance as outlined in the sample contract. Rincon accepts the standard terms and conditions in the Professional Services Agreement attached to the RFP and requests no modifications. Rincon acknowledges receipt and review of the addenda issued during the proposal period, specifically Addendum No. 1. The signed addendum can be found in **Appendix B.**

Appendix A

Resumes

Jennifer Jacobus, PhD

Principal-in-Charge/Principal Project QA/QC

Dr. Jennifer Jacobus has over 20 years of professional experience and a reputation for customer service and client satisfaction. Dr. Jacobus focuses exclusively on water and wastewater clients and projects throughout California, delivering a diverse array of environmental services to meet the unique needs of each district and community. Dr. Jacobus manages on-call contracts and has a successful record of completion for California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA) documents, natural resource permits, regulatory processes, and funding applications spanning a broad spectrum of projects from treatment plants and distribution systems, potable reuse and recycled water projects to groundwater management, reservoir storage, water rights, and surface water diversion projects. As a scientist with foundational training in ecology and resource management, Dr. Jacobus has a keen ability to communicate with technical teams to ensure appropriate and relevant analyses across all disciplines. Dr. Jacobus also has experience working with engineering design teams to understand project features and operational criteria, and transcribe technical specifications into language that is accessible to the public.

EDUCATION

PhD, Resource Ecology & Management, School of Natural Resources & Environment, University of Michigan

MA, Geography, Boston University

BA, Economics, Johns Hopkins University

AFFILIATIONS

Association of Environmental Professionals

WateReuse Association, Los Angeles Chapter, Board Member

Association of California Water Agencies

Association of Women in Water, Energy, and Environment

YEARS OF EXPERIENCE

24

SELECT PROJECT EXPERIENCE

Client Manager, Irvine Ranch Water District (IRWD) – On-Call Environmental Services, Orange County
From 2009 to 2022, while at another firm, Dr. Jacobus served as client service manager for providing as-needed environmental services to IRWD, completing 20 task orders under multi-year master contracts for CEQA/NEPA compliance and regulatory permitting, including for the Wells 21, 22, and Tustin Legacy 1 Projects Initial Study/Mitigated Negative Declaration (IS/MND)/Environmental Assessment (EA) and Addendum, San Diego Creek Water Rights Petition Initial Study/Negative Declaration, and Michelson Water Recycling Plant Recycled Water Environmental Impact Report (EIR) Addendum, and Battery Energy Storage Systems Project Notices of Exemption.

Project Manager, IRWD – Baker Water Treatment Plant EIR, Lake Forest
While at another firm, Dr. Jacobus managed preparation of an EIR for the IRWD Baker Regional Water Treatment Plant project. The goal of the project is to increase water supply reliability in south Orange County by creating redundancy of treatment system capacity and distribution infrastructure for potable water in the event of facility outages due to routine maintenance or unforeseen emergencies. The project upgraded the existing Baker Filtration Plant in the city of Lake Forest, constructed additional transmission pipelines, and installed a new pump station, all within the Central Subarea of the Orange County Natural Community Conservation Plan.

Project Manager, IRWD – Wells 21, 22, and Tustin Legacy 1 Projects IS/MND/EA and Addendum, Tustin
Dr. Jacobus managed the preparation of the IS/MND/EA and successfully met aggressive schedule requirements for federal funding awarded for this project to IRWD from the United States Bureau of Reclamation through the American Recovery and Reinvestment Act of 2009. The project sought to recover and treat impaired groundwater to augment local water supplies and increase water supply reliability. The proposed project installed wellhead equipment on two existing groundwater wells (Wells 21 and 22), drilled one production well (Well TL-1), and constructed a new water treatment plant and water transmission pipelines in the cities of Tustin and Irvine.

Project Manager, IRWD – Peters Canyon Channel Water Capture and Reuse Pipeline IS/MND, Irvine
The Water Capture and Reuse Pipeline Project diverts high selenium nuisance surface and groundwater flows from Peters Canyon Channel to the Orange County Sanitation District for treatment and reuse. IRWD, together with the Cities of Tustin and Irvine, Orange County Flood Control District, and California Department of Transportation, developed the project as a cost-effective solution for the disposal of Peters Canyon Channel flows that contain high nitrate and selenium concentrations. While at another firm, Dr. Jacobus managed a multi-disciplinary CEQA team that provided a Biological Resources Technical Report and Reduced Discharge Technical Study to document project impacts to flow, water quality, and riparian habitat downstream from the proposed diversion points, including impacts within Peters Canyon Channel, San Diego Creek, and IRWD's San Joaquin Marsh. A Cultural Resources Technical Report evaluated impacts of the pipeline alignment within over three miles of roadway and flood control rights-of-way. The technical studies supported an IS/MND, which was adopted by the IRWD Board of Directors.

Project Manager, IRWD – Syphon Reservoir Improvement Project CEQA-Plus EIR and Permitting, Irvine
The project will raise the height of the existing Syphon Reservoir dam by over 70 feet and increase storage capacity from 500 acre-feet to 5,000 acre-feet, substantially enlarging the surface reservoir located in the hills above the city of Irvine. While with another firm, Dr. Jacobus managed a multi-disciplinary team that secured CEQA/NEPA compliance and regulatory permits, including a CEQA-Plus EIR, Jurisdictional Determination from the United States Army Corps of Engineers, Streambed Alteration Agreement from California Department of Fish and Wildlife, and Central-Coastal Orange County Natural Community Conservation Plan compliance from United States Fish and Wildlife Service. The team engaged in three years of negotiations with California Department of Fish and Wildlife and United States Fish and Wildlife Service over compensatory mitigation for coastal sage scrub, wetland, and riparian habitat due to inundation of lands by the larger reservoir. The EIR addressed significant concerns from neighboring residents about dam safety and dam failure hazards.

Project Manager, IRWD – Michelson Water Recycling Plant Biosolids Handling/Energy Recovery Project EIR, Irvine
While at another firm, Dr. Jacobus managed the environmental team to prepare an EIR for IRWD's Biosolids Handling and Energy Recovery Project. IRWD constructed new facilities at the Michelson Water Recycling Plant to process biosolids on site rather than sending them to Orange County Sanitation District for processing and disposal. The project produces Class A pelletized biosolids that can be reclaimed for beneficial use as a fertilizer or biofuel. The project also captures biogas (methane) during the anaerobic digestion process that is used to generate electricity on site using microturbines. The EIR included visual simulations of the new industrial facilities, located adjacent to San Diego Creek and San Joaquin Marsh, and was supported by biological and cultural resources technical studies. The EIR was certified in October 2012. After certification of the EIR, Dr. Jacobus worked with the engineering design team to develop an Odor Control Management Plan to meet the EIR mitigation requirements.

Project Director, Eastern Municipal Water District (EMWD) – San Jacinto Valley Raw Water Facilities IS/MND, San Jacinto
The San Jacinto Valley Raw Water Facilities are part of EMWD's Enhanced Recharge and Recovery Project, which will enhance current and future water supplies by recharging raw (unfiltered) water imported from the State Water Project into the local groundwater aquifer. The Raw Water Facilities are new conveyance facilities that would increase the delivery capacity of replenishment water to the existing Mountain Avenue recharge basin sites and the Integrated Recharge and Recovery Program ponds within the San Jacinto River. The Raw Water Facilities connect to Metropolitan's existing Inland Feeder System Eastside Pipeline and include a flow control facility, chlorination treatment facility, and 2.5 miles of 60-inch diameter transmission pipeline within the public right-of-way of Esplanade Avenue in San Jacinto. As part of on-call services to EMWD, while at another firm, Dr. Jacobus provided oversight and quality control of the CEQA team, which completed technical reports for biological and cultural resources, as well as the IS/MND. The IS/MND was adopted by the EMWD Board of Directors.

Project Director, EMWD – Goetz Road Potable Water Storage Tank and Transmission Pipeline Project EIR, Perris
This project includes construction and operation of an eight-million-gallon potable water storage tank, a chlorination disinfection facility, and associated transmission pipeline. These facilities address a number of storage deficiencies in EMWD's 1627 pressure zone and improve water supply reliability. While at another firm, Dr. Jacobus provided strategic guidance and quality assurance for the CEQA and technical teams, which developed alternative pipeline alignments to be considered in the EIR and provided technical constraints analysis for biological and cultural resources. In addition, in response to community concerns about the location of the proposed storage tank adjacent to residential land uses, the EIR included visual simulations and a shade/shadow analysis.

Annaliese Torres

Project Manager/Senior Project QA/QC

Annaliese is an adaptive project manager who strives to provide clients with tailored, flexible solutions to complex environmental challenges in a conscientious manner that accounts for the schedule, cost, and implementation constraints often facing water agencies. She has experience preparing and managing California Environmental Quality Act (CEQA), CEQA-Plus, and National Environmental Policy Act (NEPA) documentation, including Categorical Exemptions, Categorical Exclusions, Initial Studies (IS), Negative Declarations (ND), Mitigated Negative Declarations (MND), Environmental Assessments, and Environmental Impact Reports (EIR). She also has experience managing the preparation of cross-disciplinary technical studies in support of CEQA, CEQA-Plus, NEPA, and regulatory permitting processes, including biological, cultural, paleontological, air quality/greenhouse gas (GHG), and noise studies. She has worked with local water agencies including but not limited to The Metropolitan Water District of Southern California, South Coast Water District, Mesa Water District, Water Replenishment District of Southern California, Santa Clarita Valley Water Agency, and Olivenhain Municipal Water District to prepare CEQA, CEQA-Plus, and NEPA documentation for infrastructure projects such as potable and non-potable water pipelines, groundwater wells, pump/lift stations, reservoirs, wastewater conveyance systems, and treatment facilities.

EDUCATION

BS, Environmental Science, Texas Christian University

CEQA Practice Certificate, University of California, San Diego Extension

AFFILIATIONS

WateReuse Association, California Section, Orange County Chapter

YEARS OF EXPERIENCE

7

SELECT PROJECT EXPERIENCE

Project Manager, Castroville Community Services District (subconsultant to prime consultant) – Moss Landing Wastewater System Rehabilitation Project CEQA-Plus IS/MND, Moss Landing, Monterey County
Annaliese served as Project Manager overseeing preparation of CEQA-Plus documentation for this project, which includes replacement and rehabilitation of four lift stations, 12 manholes, and over 5,700 linear feet of pipelines. Rincon prepared federally-compliant biological resources, cultural resources, paleontological resources, and air quality technical reports and the Climate Change Worksheet to meet the State Water Resources Control Board's Clean Water State Revolving Fund (CWSRF) standards. Rincon also prepared a CEQA-Plus IS/MND for the project that includes a federal cross-cutters analysis and alternatives evaluation in accordance with CWSRF requirements and facilitated the coastal development permitting process. Key issues for the project included special status species, archaeological and tribal cultural resources, and paleontological resources.

Project Manager, Heritage Ranch Community Services District - Water Reclamation Facility Upgrade Design Project CEQA-Plus IS/MND, San Luis Obispo County
Annaliese served as Project Manager overseeing preparation of CEQA/NEPA documentation for this project, which consists of the installation and operation of a packaged wastewater treatment plant with a membrane bioreactor as well as modifications to effluent discharge infrastructure located near Percolation Pond No. 3. As part of the scope of work, Rincon prepared federally-compliant biological resources, cultural resources, paleontological resources, and air quality technical reports; a CEQA-Plus IS/MND; and an Environmental Report consistent with the United States Department of Agriculture's NEPA procedures. Key issues for the project included special status species, jurisdictional waters, and archaeological resources.

Project Manager, South Coast Water District (SCWD) – As-Needed Environmental Services and Various Projects, Orange County
Annaliese oversees Rincon's on-call professional services agreement with SCWD and has managed several additional assignments for SCWD as a subconsultant to engineering firms. Projects she has recently managed include the following:

- Reservoir 2B Replacement Project CEQA and Coastal Development Permitting Assistance, Laguna Beach. Annaliese served as the Project Manager for the preparation of technical studies and an IS/MND as well as provision of coastal development permitting support for the proposed Reservoir 2B Replacement project. The project involves replacing SCWD's existing Reservoir 2B (located in a residential neighborhood) with two new reservoirs to double the current storage capacity on site in an effort to improve fire flow. Key issues consisted of special status plant and wildlife species (including coastal California gnatcatcher), archaeological and paleontological resources due to the project site's sensitivity for such resources, noise due to the proximity of nearby residences, and wildfire hazards due to the project site's location within a Very High Fire Hazard Severity Zone.
- Notices of Exemption for Various Projects, Dana Point and Laguna Beach. Annaliese served as Project Manager for preparation of Notices of Exemption and supporting Categorical Exemption memoranda for the 2024 Annual Sewer Lining Project, Victoria Warehouse Site Improvements and Los Monteros Recycled Water Pipeline Replacement Projects, Phase II Annual Water Meter Box Replacement Project, Laguna Cliffs Marriott Fire Flow Design Project, PCH PRV Upgrades Project, and Joint Regional Water Supply System Camino del Avion Flow Control Facility.

Project Manager, Soquel Creek Water District – Country Club Replacement Well and 1,2,3-Trichloropropane Removal Water Treatment Plant IS/MND, Coastal Development Permitting Assistance, and Construction Mitigation Implementation, Aptos, Santa Cruz County
Annaliese served as Project Manager for the preparation of an IS/MND and the provision of coastal development permitting assistance for this project, which includes construction of a granular activated carbon adsorption treatment plant and a back-up groundwater well. Rincon's scope also included preparation of a Biological Resources Assessment, Cultural Resources Assessment, and a Paleontological Resources Assessment as well as the provision of Tribal consultation support. Annaliese oversaw the preparation of all technical studies, CEQA documentation, and coastal development permitting for this project and gave presentations on the project and the CEQA process at neighborhood outreach and Board of Directors meetings. During preparation of the IS/MND, Annaliese collaborated with the District to develop voluntary and mitigation measures to address community concerns pertaining to construction noise and transportation impacts.

Project Manager, Santa Clarita Valley Water Agency – S Wells PFAS Groundwater Treatment and Disinfection Facility Project IS/MND and Technical Studies, Santa Clarita, Los Angeles County
Annaliese oversaw preparation of technical studies and an IS/MND for the project, which involves construction of a PFAS groundwater treatment and disinfection facility and installation of a new groundwater well, stormwater drainage pipelines, interconnection pipeline, influent pipeline, and roundabout improvements on a site adjacent to the Santa Clara River. Key issues for the project included biological resources due to the project's potential to affect groundwater dependent ecosystems via increased localized groundwater extraction during operation, recreation due to the location of Bridgeport Park and the Santa Clara River Bike Trail within the project's temporary construction footprint, construction noise and traffic due to the project's location in a residential neighborhood and near Bridgeport Elementary School, and water quality due to the project's proximity to the Santa Clara River. As part of the scope of work, Annaliese attended two public outreach meetings to answer questions related to the CEQA process and environmental impacts.

Program Manager, The Metropolitan Water District of Southern California – Environmental Planning Services (On-Call), Southern California
Annaliese is responsible for managing Rincon's on-call contract with The Metropolitan Water District of Southern California. Under this contract, Annaliese has and is overseeing several assignments, including climate action and adaptation planning, EIRs for the F.E. Weymouth Water Treatment Plant and La Verne Site Improvements Program and the Garvey Reservoir Rehabilitation Project, and Addenda to the Perris Valley Pipeline EIR and Lakeview Pipeline Repair IS/MND.

Michael Stewart, PE

Lead Air Quality/Greenhouse Gas Emissions Specialist

Michael Stewart has over 12 years of experience preparing air quality and greenhouse gas (GHG) analyses in accordance with the California Environmental Quality Act and National Environmental Policy Act as well as for air permitting purposes. His experience covers a variety of project sizes and complexities across a wide range of land use development types and clients, including residential developments, airports, warehouses, refineries, aerospace companies, and data centers. Michael is proficient with various emissions models (e.g., CalEEMod and EMission FACtors [EMFAC] Model series) and the AERMOD air dispersion modeling software. He is experienced performing health risk assessments (HRAs) using the California Air Resources Board HARP2 model or with Excel spreadsheets. Michael has experience managing technical staff, supporting client communication and project needs and providing quality assurance reviews.

EDUCATION

BS, Chemical Engineering, University of California, Los Angeles

CERTIFICATIONS/ REGISTRATIONS

Professional Engineer (PE), Chemical Engineering, License No. 6833

YEARS OF EXPERIENCE

12

SELECT PROJECT EXPERIENCE

Air Quality Specialist, Southern California Association of Governments (SCAG) – Connect SoCal 2024 Program Environmental Impact Report (EIR), Southern California
Michael performed the air dispersion modeling and HRAs for 16 roadway segments across SCAG's jurisdiction in support of the Air Quality section of the Program EIR. The studies performed evaluated health risk impacts and nitrogen dioxide ambient air quality impacts relative to the National Ambient Air Quality Standards (NAAQS)/California Ambient Air Quality Standards and included a nitrogen deposition study to support the Biological Resources section of the Program EIR. The HARP2 model was deployed to support health risk calculations. The modeling studies included existing, project, and no project scenarios for each of the analyses described above. Upon completion of the modeling analyses, Michael supported the development of the Air Quality EIR section.

Air Quality/Energy/GHG Specialist, Various Private Clients – Various Renewables Projects, Various Counties/Cities, California
Michael managed and performed the technical analyses for a variety of renewable projects located in numerous air districts and regions in California. The studies include calculating construction and operational emissions, performing air dispersion modeling for use in air quality impact analyses and HRAs, and performing post-processing of health risk impacts using HARP2 software and Excel spreadsheets. Michael also prepared GHG and energy impact analyses in the reports.

Senior Air Quality/GHG Technical Reviewer, City of Pomona – 1707 North Town Avenue Project, Pomona
Michael performed senior technical review of the air quality and GHG technical report, which included an HRA. Michael reviewed the emissions calculations, air dispersion modeling, health risk calculations and the technical report to ensure accuracy and deliverable quality.

Senior Air Quality Technical Reviewer, City of Burbank – 2311 North Hollywood Burbank, Burbank
Michael performed a construction HRA to determine potential impacts on nearby sensitive receptors. In addition, the proposed residential development project was sited nearby major transportation sources, including a railroad and Hollywood Burbank Airport. As a result, an HRA was required to evaluate whether the impacts of these transportation sources would significantly impact future residents. Michael supported these analyses as technical lead reviewer. This project was given an award at the Association of Environmental Professional's annual conference in 2022.

Air Quality Specialist, City of Moreno Valley – Highland Fairview World Logistics Center Project, Moreno Valley
Michael prepared an operational HRA for this 40.6-million-square-foot warehouse and logistics center project. The HRA analyzed multiple pollutants using vehicle emission factors gathered from EMFAC for multiple years studied. The study indicated project impacts would be below significance thresholds despite the challenges associated with the sheer number of heavy-duty diesel trucks from a warehouse project of this magnitude. Michael also supported preparation of the construction HRA, emissions calculations, and technical writing for the Air Quality section of the EIR.

Air Quality Specialist, City of Inglewood – Inglewood Basketball and Entertainment Center, Inglewood
Michael prepared the air quality technical studies, including operational emission calculations, air dispersion modeling and HRAs, in support of the EIR prepared for the project. The project included an approximately 19,000-person event center as the new home of the Los Angeles Clippers, and substantial emissions from vehicle traffic and other operational activities were expected. Many challenges were overcome to demonstrate compliance with ambient air quality standards and health risk thresholds. Michael managed the team conducting the photochemical modeling for a quantitative health impact analysis in response to the recent Friant Ranch decision at the time. The health impacts of criteria pollutants (i.e., nitrogen dioxide and particulate matter measuring 2.5 microns or less in diameter) were modeled using long-range photochemical models (CMAQ), and the results were modeled using the BENMAP Community Health model to demonstrate the project would not cause health impacts to the nearby community.

Air Quality Specialist, Confidential Client – Eastgate Air Cargo Facility Project at San Bernardino International Airport, San Bernardino
Michael completed air dispersion modeling for the project by developing sources to represent landside construction and operations. Michael applied the airside operational sources generated from the Aviation Environmental Design Tool model into AERMOD. Michael implemented a series of technical refinements to demonstrate the project would not exceed the one-hour nitrogen dioxide NAAQS, which is notoriously difficult to demonstrate. Michael supported the National Environmental Policy Act process and helped author the Air Quality section of the Environmental Assessment, including the air dispersion modeling protocol, Affected Environment, Environmental Consequences, and the General Conformity Determination.

Air Quality Specialist, County of Los Angeles – 2045 Climate Action Plan, Los Angeles County
Michael supported the development of the Air Quality section of the Draft Program EIR for the County of Los Angeles 2045 Climate Action Plan. This document required extensive updates and modernization for recent regulations as well as an increased focus on potential windblown dust events that occur in unincorporated areas of Los Angeles County, primarily associated with solar farm developments.

Air Quality Specialist, City of Carson – The District at South Bay Specific Plan Amendment, Carson
Michael performed localized significance threshold air dispersion modeling analysis for the Supplemental EIR for The District at South Bay Specific Plan Amendment. The air dispersion modeling analysis was conducted to compare the project's construction and operational emissions impacts relative to the NAAQS and other significance thresholds to confirm the proposed project would not result in significant air quality impacts. In addition, Michael performed senior technical review of the emissions calculations and HRA.

Air Quality Specialist, California Department of Water Resources – Salton Sea Monitoring Implementation Plan, Salton Sea
Michael supported the development of an air quality monitoring plan for the Salton Sea. The plan focused on potential fugitive emissions and releases of other potential toxic air contaminants as the sea continues to recede and expose more of the lakebed to dust events.

Michael Vader

Lead Archaeologist

Michael Vader is a cultural resources specialist with experience conducting and managing archaeological survey, excavation, and monitoring projects as well as environmental compliance projects. Michael has worked on a variety of water infrastructure, utility, renewable energy, transportation, general/master/specific plans, recreation, commercial, residential, and industrial development projects. Michael has worked throughout California, including in Orange, Los Angeles, Riverside, San Diego, Imperial, San Bernardino, Santa Barbara, San Luis Obispo, Kern, Fresno, Madera, and Inyo counties. Michael regularly works as part of a team, coordinating with field staff and agency leads.

EDUCATION

BA, Physical Anthropology, University of California, Santa Barbara

PERMITS

BLM CA – Field Director

BLM NV – Field Director

BLM AZ – Field Director

AFFILIATIONS

Society for California Archaeology

Society for American Archaeology

Pacific Coast Archaeological Society

YEARS OF EXPERIENCE

17

SELECT PROJECT EXPERIENCE

Archaeologist, South Orange County Wastewater Authority – J.B. Latham Treatment Plant Facility Improvements Project, Dana Point
The J.B. Latham Treatment Plant Facility Improvements Project involves equipment and structural repairs and replacements, new piping, safety-related modifications, and structural demolition. Michael oversaw preparation of the cultural resources assessment in support of an Initial Study/Mitigated Negative Declaration (IS/MND).

Archaeologist, Santa Clarita Valley Water Agency – S Wells Per- and Polyfluorinated Substances (PFAS) Groundwater Treatment and Disinfection Facility Project, Santa Clarita
The Santa Clarita Valley Water Agency is proposing the construction of a PFAS groundwater treatment and disinfection facility and associated pipelines. The project was awarded funding through the United States Bureau of Reclamation's WaterSMART Drought Response Program and is seeking additional funding through the United States Environmental Protection Agency (USEPA) Water Infrastructure Finance and Innovation Act (WIFIA) program. The project is therefore subject to Section 106 of the National Historic Preservation Act (NHPA). Michael prepared the Section 106-compliant cultural resources assessment report for the project.

Archaeologist, Santa Clarita Valley Water Agency – Sand Canyon Sewer Relocation Project, Santa Clarita
Michael currently oversees the cultural resources technical work for the Sand Canyon Sewer Relocation Project. The project would relocate approximately 3,700 feet of the existing Sand Canyon sewer line from within the flow path of the Santa Clara River into the adjacent overbank on the north side of the river. The project is subject to review under the California Environmental Quality Act (CEQA) and Section 106 of the NHPA. Michael is coordinating the cultural resources work for the project, including the survey, Extended Phase I excavations, and preparation of a joint CEQA- and Section 106-compliant report.

Archaeologist, Santa Clarita Valley Water Agency – Newhall Wells (N11, N12, N13) Groundwater Treatment Improvements Project, Santa Clarita
Michael oversaw the cultural resources technical work for the Newhall Wells (N11, N12, N13) Groundwater Treatment Improvements Project. The project proposes the construction and operation of a centralized groundwater treatment facility to address perfluorohexane sulfonic acid substances and perchlorate at Wells N11, N12, and N13. The project is subject to review under CEQA and Section 106 of the NHPA. Michael coordinated the cultural work for the project, including the cultural resources survey and preparation of the CEQA- and Section 106-compliant cultural resources assessment report.

Archaeologist, Eastern Municipal Water District – Extension of Sewer to Highway 74 Project, Riverside County
Michael currently oversees the cultural resources technical work for the Extension of Sewer to Highway 74 Project. The project would expand the sewer system within Planning Area 6 of Riverside County by upsizing existing sewer pipelines and installing new sewer pipelines within existing road rights-of-way. The project is subject to review under CEQA, and an IS/MND is being prepared. Michael is coordinating the cultural resources work for the project, including the survey and preparation of a CEQA-compliant report.

Archaeologist, Santa Clarita Valley Water Agency – Rio Vista Water Treatment Plant Sewer Line Project, Santa Clarita
Michael oversaw the cultural resources technical work for the Rio Vista Water Treatment Plant Sewer Line Project. The project proposes to replace an existing eight-inch sewer line that connects the existing sewer line to the local sewer system with a new 1,900-foot-long sewer line and to upsize a separate 350-foot-long existing sewer pipeline. The project is subject to review under CEQA and Section 106 of the NHPA. Michael is coordinating the cultural work for the project, including the evaluation of a built environment feature identified as part of the cultural resources survey and preparation of the CEQA- and Section 106-compliant cultural resources assessment report.

Archaeologist, Santa Clarita Valley Water Agency – Honby Tank Pipeline Project, Santa Clarita
The Santa Clarita Valley Water Agency is proposing replacement of the existing Honby Pipeline by constructing a new pipeline to convey water to and from the Honby Tanks and the Honby Booster Station. The agency is seeking funding for the project through the United States Bureau of Reclamation's Drought Response Program and the USEPA's WIFIA program, and the project is therefore subject to Section 106 of the NHPA. Michael prepared the Section 106-compliant cultural resources assessment report for the project.

Archaeologist, Saticoy Sanitary District – Wastewater System Rehabilitation Project, Saticoy
The Wastewater System Rehabilitation Project includes the repair of approximately 11,030 linear feet of existing pipe using a mix of repair methods to address identified wastewater conveyance pipeline defects, including trenchless cured-in-place pipe relining, open-cut trench pipe replacement, jack-and-bore pipe replacement, open-cut point repairs, and manhole replacement. Funding for the project is provided by the USEPA's State Revolving Fund, administered by the State Water Resources Control Board, and the project was subject to Section 106 of the NHPA. Michael coordinated the cultural resources survey and prepared the Historic Property Identification Report pursuant to State Water Resources Control Board guidelines to meet their Section 106 consultation needs.

Archaeologist, City of Pacific Grove – Pump Station 15.5 Replacement Project, Pacific Grove
The City of Pacific Grove is implementing the Pump Station 15.5 Replacement Project, which includes the replacement of an existing pump station located within a golf course. The City is preparing a Categorical Exemption for the project pursuant to CEQA. Michael prepared the cultural resources letter report in support of the Categorical Exemption.

Archaeologist, Carmel Area Wastewater District – Scenic Road Pipeline Replacement Project, Carmel-by-the-Sea
The Carmel Area Wastewater District is proposing the Scenic Road Pipeline Replacement Project, which would replace segments of existing sewer lines within paved roads through Carmel-by-the-Sea using trenching and pipe bursting methods. An IS/MND was prepared for the project pursuant to CEQA. Michael prepared the cultural resources letter report in support of the IS/MND.

Archaeologist, Los Angeles Department of Water and Power (LADWP) – Stormwater Capture Parks Program, Los Angeles
LADWP is proposing the Stormwater Capture Parks Program to capture stormwater surface flows at nine parks within the city of Los Angeles, diverting the runoff from the Tujunga Wash Central Branch storm drain to recharge the San Fernando Groundwater Basin. The nine parks are administered by the City of Los Angeles Department of Recreation and Parks and include: David M. Gonzalez Recreation Center, Fernangeles Park, Strathern Park North, Whitsett Fields Park North, Valley Plaza Park North, Valley Plaza Park South, Alexandria Park, North Hollywood Park, and Valley Village Park. Michael coordinated the cultural resources survey and prepared the cultural resources assessment report in support of an IS/MND prepared pursuant CEQA.

Shannon Carmack

Lead Architectural Historian

Shannon has more than 24 years of professional experience providing cultural resources management and historic preservation planning for large-scale and high-profile projects. She has worked throughout California in numerous sectors including water and wastewater infrastructure, public utilities, local planning, development/construction, Department of Defense, transportation, recreation, and education. Shannon prepares documentation to satisfy California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA), National Historic Preservation Act Section 106 (Section 106), and Local Historic Preservation Ordinances. She also provides reports and studies that are in compliance with the Secretary of the Interior's Standards for the Treatment of Historic Properties and the California Historic Building Code. She has developed and implemented successful mitigation for countless projects that included Historic American Building Survey documentation, oral histories, and interpretive programs. Shannon meets and exceeds requirements in the Secretary of the Interior's Professional Qualification Standards in Architectural History and History.

EDUCATION

BA, History, emphasis in American History, California State University, Long Beach

AA, Anthropology, Orange Coast College; California

CERTIFICATIONS/ REGISTRATIONS

Green Strategies for Historic Buildings, National Preservation Institute

CEQA Workshop Training, AEP

Oral History Methods, CSU Long Beach

Identification and Evaluation of Mid-20th Century Buildings, National Preservation Institute

Section 4(f) Cultural Resources Compliance for Transportation Projects, National Preservation Institute

YEARS OF EXPERIENCE

24

SELECT PROJECT EXPERIENCE

Principal Architectural Historian, The Metropolitan Water District of Southern California (Metropolitan) – On-Call Environmental Services, Various Counties
Shannon has served as Principal Architectural Historian for multiple historic building documentation packages for Metropolitan. These documents were completed as part of the cultural resources mitigation adopted for various site and facility improvements projects and documented significant properties such as filter buildings and washwater reclamation plants. For these efforts, Shannon served in a senior oversight capacity, coordinating with staff to gather historical photographs, documents, and other materials on behalf of Metropolitan. Reports were subsequently prepared, presenting the as-built and existing conditions of the properties, narrative statements of significance, and compiled historical documentation.

For example, Shannon has completed historic building documentation packages for the Filter Rehabilitation and Chemical Upgrades projects at the F.E. Weymouth Water Treatment Plant. Most recently, Shannon led the preparation of a Preliminary Historic Design Review of the plant's Administration and Control Buildings Seismic Upgrades to help inform the appropriate level of CEQA documentation for the project.

Cultural Resources Principal, Montecito Water District – Alder Creek Flume Repair Project CEQA/NEPA Documentation and Regulatory Permitting, Santa Barbara County
Shannon provided senior cultural resources oversight for the Alder Creek Flume Repair Project, located in the Los Padres National Forest. The project will replace a section of the Alder Flume, which was extensively damaged following the Thomas Fire in 2017. The project requires a permit from the United States Forest Service and is receiving funding from the Federal Emergency Management Agency. As such, the project is considered a federal undertaking subject to Section 106. Shannon served as the principal for the cultural resources technical study with efforts including coordination with the United States Forest Service, a field survey, and preparation of a technical report.

Principal-in-Charge, Los Angeles Sanitation District – Cultural Resources Assessment for the Reseda Riverloop Greenway Project, Los Angeles County
Shannon is currently serving as Principal-in-Charge for the Cultural Resources Assessment for the Reseda Riverloop Greenway Project, which is subject to Section 106. The project proposes the development of a pedestrian greenway and associated small scale infrastructure along and near the banks of the Los Angeles River, roughly between Wilbur Avenue and Reseda Boulevard in Los Angeles's Reseda neighborhood. The assessment includes the delineation of an Area of Potential Effects, review of a previously conducted search of the California Historical Resources Information System, a search of the Native American Heritage Commission Sacred Lands File, Native American consultation, archival and background research, and a cultural resources field survey. The assessment builds on the findings of the Cultural Resources Assessment Report for the Los Angeles Bikeway and Greenway Project, prepared by Rincon in 2020.

Senior Architectural Historian, West Basin Municipal Water District (subconsultant to prime consultant) – Palos Verdes Recycled Water Pipeline Project CEQA Documentation, Los Angeles County
Shannon served as Senior Architectural Historian for this project on behalf of the West Basin Municipal Water District. Shannon assisted with a cultural resources technical study for the project to deliver recycled water from the existing Anza Lateral pipeline in the city of Torrance to the Palos Verdes Golf Club in the city of Palos Verdes Estates. Rincon conducted a cultural resources technical study in accordance with CEQA-Plus requirements, which included compliance with Section 106. Specifically, Shannon led the built environment component of the analysis, which included historic group consultation and the evaluation of several historic-period resources, including the Palos Verdes Golf Club property, which was determined to be ineligible for historic designation.

Senior Architectural Historian, South San Luis Obispo County Sanitation District – Wastewater Treatment Facility Redundancy Project NEPA Documentation, San Luis Obispo County
Shannon served as Senior Architectural Historian on this project, located in the unincorporated community of Oceano. Shannon assisted with conducting a Cultural Resources Assessment for the project, which was subject to Section 106 due to federal funding awarded by the United States Department of Agriculture. Specifically, Shannon identified one built environment resource within the Area of Potential Effects; the project site was recorded and evaluated for listing in the National Register of Historic Places and found ineligible for designation.

Cultural Resources Principal, City of Santa Barbara – Cabrillo Boulevard Bicycle and Streetscapes Improvements Project, Santa Barbara County

Shannon provided senior cultural resources oversight for a project in the city of Santa Barbara that was funded through the California Department of Transportation's local assistance program. The project, which was subject to Section 106, included the Montecito Sanitary District's wastewater treatment plant within the boundary of the Area of Potential Effects. Shannon developed the approach for the cultural resources study, which included a records search, Native American and local interested parties' consultation, intensive-level field survey, and preparation of technical studies. The wastewater treatment plant was evaluated within the context of water infrastructure in California and recommended ineligible for listing in the National Register of Historic Places and California Register of Historical Resources.

Architectural Historian, City of Merced – Tank No. 3 Historic American Engineering Record, Merced County
Shannon served as Architectural Historian for the City of Merced Public Works Department's demolition of its existing water tank due to its structural failing. The tank was previously determined eligible for the National Register of Historic Places and was listed in the California Register of Historical Resources. To mitigate the demolition of the historical resource in accordance with CEQA, Rincon was retained to complete a historic documentation package that included photographs and a written history of the structure, in accordance with National Park Service Guidance. Specifically, Shannon served as project manager and reviewed the documentation for quality assurance and quality control.

Senior Architectural Historian, County of San Diego – Pacific Beach Pipeline Project, San Diego
Shannon served as Senior Architectural Historian for a water pipeline improvement project located in the San Diego community of Pacific Beach. One built environment resource, a semi-subterranean water reservoir constructed in 1908, was found ineligible for listing at the national, State and local level of historic significance. The analysis included archival research, a site visit, preparation of California Department of Parks and Recreation Series 523 forms, and development of a historic context for the report.

Bill Vosti

Lead Noise Specialist

Bill Vosti has 10 years of experience preparing noise technical analyses in accordance with the California Environmental Quality Act and National Environmental Policy Act. Bill is proficient with various noise prediction models (e.g., CadnaA, SoundPLAN, and the Federal Highway Administration's Traffic Noise Model). His experience includes noise analyses for wastewater and water agencies across California, including several water and sewer projects in Orange County. He also leads Rincon's Air Quality, Greenhouse Gas (GHG), and Noise Program by managing technical staff and providing quality assurance reviews.

EDUCATION

MESM, Environmental Science & Management, University of California, Santa Barbara

BA, Journalism, California State University, Chico

AS, GIS, San Diego Mesa College

YEARS OF EXPERIENCE

10

SELECT PROJECT EXPERIENCE

Noise Analyst, Orange County Sanitation District (OCSD) – Newhope-Placentia Trunk Sewer Replacement No. 2-72A Project, Fullerton
The project proposed the replacement and upsizing of 12,300 feet of existing pipeline. Bill assessed potential noise impacts from construction near sensitive habitat and residences with an Acoustical Analysis Report. Noise issues included excessive noise levels near habitat for federally-listed endangered bird species, which was mitigated with avoidance during the breeding season and/or noise barriers.

Noise Analyst, OCSD – Newhope-Placentia Trunk Sewer Replacement No. 2-72 B Project, Anaheim
The project proposed the replacement of 20,679 feet of existing sewer pipes with larger pipes within an existing alignment. The noise analysis included construction noise modeling to assess impacts to nearby noise-sensitive land uses, such as single- and multi-family residential.

Project Manager/Air Quality, GHG, Noise Analyst, Moulton Niguel Water District – Oso Creek/Interstate 5 Pipeline Improvements Project, Orange County
The project involved replacing an existing pipeline underneath the Interstate 5 freeway in a biologically-sensitive area. Bill managed the project from start to adoption of the Initial Study/Mitigated Negative Declaration (IS/MND) and was responsible for preparing the air quality, GHG, and noise analyses. Air quality issues included emissions from construction equipment, and noise issues included construction noise at nearby single-family residences.

Noise Analyst, Santa Clarita Valley Water Agency - Well 205 Groundwater Treatment Facility Project, Los Angeles County
Bill served as Noise Analyst for the Well 205 Groundwater Treatment Facility Project IS/MND. The project consisted of construction and operation of a new groundwater treatment facility with a chemical building, water tanks, pumps, and treatment equipment alongside the existing facilities at the site. Tasks included assessing potential noise impacts from construction equipment and operational pump equipment at the nearest residences.

Assistant Project Manager and Noise Analyst, Padre Dam Municipal Water District (PDMWD) – Comprehensive Facilities Master Plan, San Diego County
Bill managed and prepared noise analyses for the Program Environmental Impact Report (EIR) for PDMWD's Comprehensive Facilities Master Plan, which guides the planning and development of water, wastewater, and recycled water system improvements to support anticipated growth through 2040. The noise analysis analyzed noise impacts from Capital Improvement Projects at a programmatic level, including determining which projects would not need further environmental review for noise. For projects that would result in potentially significant impacts, mitigation was included with suggested noise reduction measures.

Noise Analyst, GHG Analyst, and Environmental Planner, Metropolitan Water District of Southern California – Etiwanda Pipeline Relining EIR, Various Counties/Cities, California
The Etiwanda Pipeline Relining project was a proposed mortar relining of approximately five miles of a major water pipeline in the cities of Fontana and Rancho Cucamonga in San Bernardino County. Significant project issues included construction impacts from nighttime noise and air pollutant emissions. Bill assisted in preparation of the noise report and prepared the GHG, Noise, Land Use, and Cumulative EIR sections.

Technical Reviewer, Santa Clarita Valley Water Agency – Honby Tanks Pipeline Project, Los Angeles County
Bill provided quality assurance review of the noise modeling and analysis completed for the IS/MND for a water pipeline replacement crossing the Santa Clara River. The analysis evaluated construction noise impacts at the nearest residences with a brief, qualitative operational noise analysis because of the lack of permanent noise sources.

Technical Reviewer, Santa Clarita Valley Water Agency – Rio Vista Water Treatment Plant Sewer Line Project, Los Angeles County
The project is a sewer line replacement project within and near the existing Rio Vista Water Treatment Plant. Bill provided quality assurance review of the air quality, GHG emissions, and noise modeling and analysis completed for the IS/MND. The analysis determined air quality, GHG emission, and noise impacts from construction equipment at the nearest residences. Operational air quality, GHG emission, and noise analyses were completed qualitatively because the project involves an underground pipeline with no operational emissions or noise.

Noise Analyst, PDMWD – Eastern Service Area Secondary Connection, San Diego County
Bill serves as a Noise Analyst in support of a water improvement project including approximately 6,000 linear feet of new pipeline, a 12-million-gallon pump station, a 1.75-million-gallon prestressed concrete forebay tank, flow control facility, and associated appurtenances. Noise report tasks included the assessment of construction noise impacts to nearby residents and identification of mitigation to reduce impacts.

Noise Analyst, Otay Water District – Force Main Replacement, San Diego County
Bill served as a Noise Analyst for an acoustical study for the replacement of approximately 9,225 linear feet of 10-inch gravity sewer with a new 15-inch gravity sewer system in Rancho San Diego. Noise issues focused on construction noise impacts to adjacent sensitive habitat and nesting birds; mitigation included temporary sound walls.

Air Quality and GHG Analyst, Pleasant Valley County Water District – Groundwater Sustainability Improvements Program, Camarillo
Bill served as the air quality and GHG emissions modeler for construction of approximately 9,000 linear feet of new 18-inch recycled water pipeline that would interconnect two existing transmission laterals. Work included review of modeling for the project conducted using the Roadway Construction Emissions Model. Key issues included the project's construction emissions in relation to Ventura County Air Pollution Control District thresholds.

Noise Analyst, City of Ventura – Ocean Outfall Horizontal Directional Drilling Project, Ventura
Bill served as a Noise Analyst for preparation of a construction noise management plan for the City of Ventura's Ocean Outfall Project. Specifically, the project required intensive, 24-hour directional drilling in a park located next to single-family residences. The management plan involved quantifying the noise generated by construction activities and developing mitigation measures to reduce noise levels at the residences. Measures included a large temporary noise barrier surrounding the construction site.

Noise Analyst, City of Lake Forest – Saddleback Community Church Expansion IS/MND, Lake Forest
Bill served as the noise analyst for an IS/MND for a proposed church expansion in the city of Lake Forest. The project would involve the construction of a two-story, 92,391-square-foot Worship Center Building with a capacity of 3,219 seats and a 290-voice choir for a total assembly occupancy of 3,509, an increase from an existing occupancy of 3,153 seats at the existing Worship Center Building. Noise issues included the increase in traffic noise and mechanical equipment noise from the project.

EDUCATION

PhD, Earth Science, University of California, Santa Barbara

Certificate in College and University Teaching, University of California, Santa Barbara

BA, Biology &

BA, Evolutionary Biology, summa cum laude, Case Western Reserve University, Cleveland, Ohio

YEARS OF EXPERIENCE

3

Andrew J. McGrath, PhD

Lead Paleontologist

Dr. McGrath has three years of experience as a paleontological resources consultant and nine years of paleontological research experience, including fieldwork in California and Bolivia, presentations at international research conferences, and multiple first-author publications. Dr. McGrath earned a PhD in Earth Science in 2021 from the University of California, Santa Barbara. For his dissertation, Dr. McGrath analyzed South American native ungulate and rodent taxonomy, phylogeny, biochronology, and locomotor ecology. Since joining Rincon in July 2021, Dr. McGrath has conducted construction monitoring and field surveys; prepared technical documents (e.g., Environmental Impact Reports, Initial Studies, construction compliance monitoring reports, and paleontological mitigation plans); and helped manage compliance and staffing on large construction projects. These projects have been completed in compliance with a variety of federal (United States Bureau of Land Management, National Park Service), State (California Energy Commission, California Department of Transportation), and municipal regulatory agencies.

SELECT PROJECT EXPERIENCE

Lead Paleontologist, Metropolitan Water District of Southern California – Prestressed Concrete Cylinder Pipe Rehabilitation Program, Reach 3a Project, Los Angeles County
Dr. McGrath created and delivered a Worker Environmental Awareness Program for paleontological and cultural resources and ensured compliance with regards to paleontological resources for this project in the cities of Los Angeles, Long Beach, Carson, and Torrance.

Assistant Project Manager/Field Director, Casitas Municipal Water District – East and West Ojai Avenue Pipeline Replacement Project, Ventura County
Dr. McGrath coordinated paleontological monitors, conducted paleontological monitoring, and drafted the final monitoring report for this water pipeline replacement project in Ojai.

Field Monitor, Soquel Creek Water District – Country Club Replacement Well and 1, 2, 3-Trichloropropane (1,2,3-TCP) Removal Water Treatment Plant Project, Santa Cruz County
Dr. McGrath wrote the Paleontological Resources Mitigation Plan and Paleontological Monitoring Report and served as the paleontological monitor for this project which involved installation of a new groundwater well and associated treatment facility in Aptos.

Assistant Project Manager/Field Director, Southern California Edison Company – Del Valle Substation, Los Angeles and Ventura Counties
Dr. McGrath reviewed an existing Paleontological Resources Technical Report, conducted two field surveys of the proposed project area, and drafted an addendum to the Paleontological Resources Technical Report summarizing those field surveys.

Assistant Project Manager/Qualified Paleontologist, Los Angeles County Metropolitan Transportation Authority – Metrolink Lancaster Station Improvements Project, Los Angeles County
This project involves upgrading the Lancaster Metrolink station as part of the Los Angeles County Metropolitan Transportation Authority's updated Metrolink Antelope Valley Line, which will provide rapid passenger train service between Los Angeles Union Station and Lancaster. Dr. McGrath prepared the Paleontological Mitigation

and Monitoring Plan to guide paleontological monitoring during project construction to comply with Antelope Valley Line's Programmatic Environmental Impact Report.

Paleontological Oversight, California High-Speed Rail – Construction Package 1 (CP-1), Fresno and Madera Counties
CP-1 of California's high-speed rail system extends from the city of Madera to the city of Fresno. Dr. McGrath is responsible for overseeing implementation of paleontological mitigation along this segment, including directing monitors, reviewing monitoring logs, managing fossil curation, and creating non-compliance reports or directive letters, as necessary.

Project Manager, Lockwood at Vintage LLC – Lockwood Apartments 1 and 2 Project, Ventura County
The Lockwood Apartments 1 and 2 Project involves the construction of an apartment complex in Oxnard. Dr. McGrath is responsible for coordinating paleontological monitoring and pre-construction biological surveys for this project.

Assistant Project Manager/Field Director, California High Speed Rail – CP-1D North Extension Project, Madera County
Dr. McGrath was responsible for scheduling paleontological and archaeological monitors, coordinating with Native American monitors, and drafting monthly compliance reports for CP-1D of California's high-speed rail system.

Assistant Project Manager, Intersect Power – Blythe Mesa Solar II Project, Riverside County
The Blythe Mesa Solar II project involved the construction of a utility-scale solar energy facility. Dr. McGrath scheduled paleontological monitors, cataloged fossil discoveries, and assessed paleontological monitoring needs on private and federal lands. Dr. McGrath also drafted monitoring reports summarizing monitoring efforts for the County of Riverside and United States Bureau of Land Management.

Paleontologist, Southern California Edison Company – Cal City Substation 115 kV Upgrade Project, Kern and San Bernardino Counties
The Cal City Substation 115 kV Upgrade project analyzes several proposed routes for new and upgraded utility lines near California City. Dr. McGrath led a field survey and was the primary author of the resulting Paleontological Resources Technical Report for the United States Bureau of Land Management and California Public Utilities Commission. He also reviewed the Paleontological Resources Mitigation and Monitoring Program.

Principal Investigator, LPA Design Studios – Campus Pointe Master Plan Entitlements, San Diego County
Dr. McGrath serves as Principal Investigator for this project involving the construction of a commercial development in San Diego. Dr. McGrath is responsible for ensuring compliance with City of San Diego regulations for paleontological resources.

Assistant Project Manager/Field Monitor, Patch Services, LLC – Henrietta Battery Energy Storage System Project, Kings County
Dr. McGrath drafted the Paleontological Resources Mitigation Plan in accordance with California Energy Commission standards for the construction of a Battery Energy Storage System near Lemoore. He also served as a paleontological monitor for a portion of the construction phase.

Subject Matter Expert, Southern California Gas Company – Pipeline Safety Enhancement Plan, Various Counties/Cities, California
Dr. McGrath has drafted numerous paleontological resources sections of Detailed Environmental Reports for the Pipeline Safety Enhancement Program, which involves the testing and maintenance of Southern California Gas Company pipelines throughout southern California. This program involves projects that cross numerous municipal, state, and federal jurisdictions.

Assistant Project Manager, Southern California Edison Company – Lugo-Victorville Remedial Action Scheme, San Bernardino County, California and Nye County, Nevada
Dr. McGrath was responsible for revising existing Paleontological Resources Technical Reports, reviewing Preliminary Environmental Assessments, and drafting Paleontological Resources Mitigation and Monitoring Programs for this large-scale utility line installation project. This project was required to comply with County, State, United States Bureau of Land Management, and National Park Service regulations.

Ethan Knox

Lead CEQA Analyst

Ethan is a dedicated environmental professional and holds a B.S. in Environmental Management and Protection from California Polytechnic State University. As a proficient analyst, he has experience in preparing environmental analyses pursuant to the California Environmental Quality Act and National Environmental Policy Act. Ethan also provides internal project management support, coordinating with internal cross-service teams to manage deliverables. Ethan contributes experience working with environmental non-profit organizations that closely interact with regulatory agencies such as the State Water Resources Control Board.

EDUCATION

BS, Environmental Management and Protection, California Polytechnic State University, San Luis Obispo

YEARS OF EXPERIENCE

3

SELECT PROJECT EXPERIENCE

Planner, Castroville Community Services District – Moss Landing Wastewater System Rehabilitation Project, Monterey County
Ethan assisted in preparing an IS-MND for the Moss Landing Wastewater System Rehabilitation project which entailed the demolition and replacement or rehabilitation of four lift stations in addition to several manhole improvements and pipeline replacements. Key issues included biological resources and construction vibration.

Planner, City of Oxnard – Central Trunk Rail Yard Crossing and Lift Station Project, Ventura County
Ethan prepared the IS/MND for the Central Trunk Rail Yard Crossing and Lift Station Project. The project involves the installation and operation of approximately 2,160 feet of new 24-inch sewer pipeline, approximately 2,270 feet of new 12-inch polyvinyl chloride gravity sewer, and a new sewer lift station on approximately 0.05 acre. In addition, the project includes the repair a portion of an existing 18-inch sewer parallel to the City's Central Trunk Sewer and abandonment of a portion of the existing Central Trunk Sewer. Key issues included air quality emissions and noise during construction.

Planner, South Coast Water District – Reservoir 2B Replacement Project, Orange County
Ethan authored the Initial Study/Mitigated Negative Declaration (IS/MND) for the Reservoir 2B Replacement project, which involves replacing the South Coast Water District's existing Reservoir 2B with two new reservoirs to double the current storage capacity on site in an effort to improve fire flow. Key issues consist of special status plant and wildlife species, high archaeological and paleontological sensitivity, and construction noise at nearby residences.

Planner, Metropolitan Water District of Southern California – F.E. Weymouth Water Treatment Plant and La Verne Site Improvements Program, Los Angeles County
Ethan prepared the Program Environmental Impact Report (EIR) for the F.E. Weymouth Water Treatment Plant and La Verne Site Improvements Program. The proposed Program involved four improvement projects and two new construction projects, which aim to upgrade existing infrastructure, install efficient water treatment technologies, and improve existing facilities. Key issues included air quality and transportation impacts.

Planner, Casitas Municipal Water District – Ventura-Santa Barbara Counties Intertie Project, Ventura County and Santa Barbara County
Ethan assisted in preparation of an IS/MND for the Ventura-Santa Barbara Counties Intertie project. The project involves the construction and operation of potable water infrastructure to connect the Casitas Municipal Water District and Carpinteria Valley Water District water transmission systems. The proposed project includes approximately 7,100 linear feet (1.3 miles) of new 16-inch-diameter potable water pipeline, two new booster pump stations, replacement of select portions of the existing Rincon Main, and improvements to infrastructure at other existing Casitas Municipal Water District facilities. The pipeline would traverse the boundary between Ventura and Santa Barbara counties and act as a two-way intertie to allow the transfer of water between Casitas Municipal Water District and Carpinteria Valley Water District, as necessary.

Assistant Project Manager, Palmdale Water District – Palmdale Ditch Conversion, Los Angeles County
Ethan is Assistant Project Manager for the Palmdale Ditch Conversion project. The project involves the installation of 7.2 miles of pipeline in an existing uncovered ditch to minimize water losses from evaporation and seepage into the soil during transport of water and improve water quality. The project alignment is within the jurisdiction of the United States Forest Service, County of Los Angeles, and the City of Palmdale. Ethan tracks budget, manages deliverables, and provides Quality Assurance/Quality Control on staff work to support the environmental analysis.

Planner, California State Water Resources Control Board, Division of Drinking Water – Kernville Raw Water Intake Upgrade Project, Kern County
Ethan is preparing the IS-MND for the Kernville Raw Water Intake Upgrade Project. California Water Service (Cal Water) is proposing to replace an existing raw water intake system, which diverts water from the north fork of Kern River to the Kernville Water Treatment Plant. To restore the Kern River water supply capacity, Cal Water is proposing to install a single, reliable 1,000-gpm raw water intake system to replace the existing raw water intake system and emergency intake system. Ethan has provided technical assistance, including air quality, greenhouse gas emissions, and noise modeling.

Planner, City of San Luis Obispo – San Luis Obispo Creek Repair Project, San Luis Obispo County
Ethan prepared the IS/MND for the San Luis Obispo Creek Repair project. The project proposed to repair drainage control infrastructure along the banks of an approximately 180-linear-foot stretch of San Luis Obispo Creek. The project was necessary to prevent structural failure and increased erosion within San Luis Obispo Creek. Key issues included noise due to the proximity of nearby residences and transportation due to anticipated lane closures.

Planner, Morro Bay Power Company, LLC – Morro Bay Battery Energy Storage System Project, San Luis Obispo County
Ethan is assisting in preparation of an EIR for the Morro Bay Battery Energy Storage System project in Moro Bay. The project involves reuse of an existing power plant and includes three components: (1) construction and operation of a 600-megawatt Battery Energy Storage System facility on approximately 24 acres of a 43-acre project site; (2) demolition and removal of the existing power plant building and stacks on approximately 19 acres of the project site; and (3) adoption of a Master Plan which would apply to the entire power plant property and would change the land use designation of the 24-acre Battery Energy Storage System facility site from Visitor Serving Commercial to General (Light) Industrial and the zoning from Visitor Serving Commercial to Industrial-General. Key issues include flooding, tsunami risk, use of hazardous materials, and emergency evacuation.

Planner, City of Goleta – Sywest Industrial Building Project, Santa Barbara County
Ethan is assisting in the preparation of an EIR for the Sywest Industrial Building Project in Goleta. The project proposes to redevelop a vacant drive-in movie theater with an industrial storage warehouse building. The project involves the demolition of an existing freestanding movie screen, concessions stand, projector building, two drive-through ticket booths, one walk-in ticket booth, and an agricultural box and construction of an approximately 70,594-square-foot industrial warehouse building. Ethan has navigated through key issues in the EIR, including transportation hazards, flooding, sea level rise, and a proposed reduction of a Streamside Protection Area buffer at San Jose Creek.

Eric W. Schaad

Lead Biologist

Eric has 18 years of experience as a biological researcher, educator, and environmental consultant. His experience includes preparing and consulting on regulatory permits for federal and California endangered species and impacts to waters of the State and United States as well as conducting biological research and fieldwork based on agency protocols. Eric has extensive experience in federal Endangered Species Act Section 7 and Section 10 consultation and California Fish and Game Code Sections 1600 and 2081(b) consultation as well as technical report preparation and review, habitat conservation plan preparation, and compensatory mitigation planning.

SELECT PROJECT EXPERIENCE

Lead Biologist, South Coast Water District – Aliso Creek Urban Runoff Recovery, Reuse, and Conservation Project, Laguna Beach, Orange County
Eric served as the lead biologist and subject matter expert for the project. He supported preparation of the Project Workplan and led the planning and execution of biological reconnaissance surveys and field ground-truthing of drone flight imagery for vegetation mapping. Eric attended meetings of the South Coast Water District Engineering and Operations committee and led meetings with the California Department of Fish and Wildlife to obtain a California Fish and Game Code Section 1602 Streambed Alteration Agreement. Eric attended regular planning meetings with the client and helped outline a strategy to keep the project on track despite abundant stakeholder controversy.

Lead Regulatory Specialist, United Water Conservation District (United) – Freeman Diversion Multiple Species Habitat Conservation Plan, Ventura County
Eric served as the lead regulatory specialist and managed a team of consulting firms to prepare a Multiple Species Habitat Conservation Plan under Section 10 of the Endangered Species Act for impacts to listed species in and along the Santa Clara River. Covered species include least Bell's vireo, southwestern willow flycatcher, yellow-billed cuckoo, southwestern pond turtle, two-striped garter snake, and steelhead. He provided general consulting support for Plan preparation, prepared several sections of the Plan, and provided overall final document technical review to ensure consistency and completeness across the approximately 500-page document. Eric supported and led regulatory consultation meetings and live-edit sessions with the National Marine Fisheries Service, United States Fish and Wildlife Service, California Department of Fish and Wildlife, and United States Army Corps of Engineers. He prepared jurisdictional waters permit applications for the Multiple Species Habitat Conservation Plan under United States Army Corps of Engineers, Regional Water Quality Control Board, and California Department of Fish and Wildlife and coordinated with agencies during the review process to ensure timely review periods. Eric also advised on California Environmental Quality Act (CEQA) compliance during preparation of the project's Environmental Impact Report.

EDUCATION

MS., Evolutionary Ecology, University of New Mexico

BS, Biology, California State University, Bakersfield

CERTIFICATIONS/ REGISTRATIONS

NOAA Fisheries Caulerpa Control Protocol Certification – 2019

California Department of Fish and Wildlife, Level II Blunt-Nosed Leopard Lizard Surveyor

Reef Check Foundation Certified Surveyor – Invertebrate, Algae, UPC, and Fish

Instructor Development Course (IDC) Staff Instructor, Inst# 343833, Professional Association of Dive Instructors (PADI), USA

Technical Diving Certification, PADI#14070W7241, TDI#594374

Emergency First Responder Instructor, Primary Care (CPR/AED), Secondary Care (First Aid), International Liaison Committee on Resuscitation (ILCOR), USA

YEARS OF EXPERIENCE

18

rincon

Project Manager/Lead Regulatory Specialist, United – Freeman Diversion Operations and Maintenance, Ventura County
Eric consulted with United to prepare waters regulatory permitting for operation and maintenance activities at the Freeman Diversion. Eric coordinated with United to prepare the project description and refine the project to streamline the application and approval process. Eric provided federal Endangered Species Act Section 7 support in consultation with regulatory agencies, including the United States Army Corps of Engineers, Regional Water Quality Control Board, and California Department of Fish and Wildlife and coordinated with the agencies during the review process to ensure timely review periods.

Senior Technical Advisor, Casitas Municipal Water District – Pipeline Relocation Project Feasibility Study, Ventura County
Eric provided senior technical oversight and review of field surveys and preparation of a Regulatory Permitting Constraints/Alternatives Analysis, habitat assessment, and jurisdictional delineation for the project. He provided technical support to United in determining the best approach for minimizing environmental impacts and reducing environmental permitting requirements. Eric also advised on the CEQA approach for a Categorical Exemption.

Senior Technical Advisor, Casitas Municipal Water District – Robles Diversion Repair Emergency Permitting, Ventura County
Eric conducted a biological review of the project site and prepared emergency permits for impacts to waters under the jurisdiction of the United States Army Corps of Engineers, Los Angeles Regional Water Quality Control Board, and California Department of Fish and Wildlife. He also coordinated with all three agencies to ensure prompt review of permit applications and to provide clear understanding of project parameters. He oversaw on-site compliance monitoring and coordination with agencies on project completion and final compliance requirements. He also prepared a Statutory Exemption under CEQA.

Project Manager, City of Long Beach – Under Sea Floor Intake Removal Project, Long Beach
Eric served as the project manager and coordinated preparation of the permit compliance matrix, pre-construction agency notifications, biological and water quality monitoring, and SCUBA diving plan for surveys. As the Marine Safety Officer, Eric reviewed and approved the Health and Safety Plan and SCUBA Dive Plan. The project entailed seasonally timed surveys for the detection of invasive marine species in compliance with the Caulerpa Control Protocol and eelgrass (Zostera spp.) in compliance with the California Eelgrass Mitigation Policy.

Project Manager, Southern California Gas Company – Pipeline Removal at Solimar State Beach, Ventura County
Eric served as the project manager for a coastal pipeline removal project and conducted SCUBA diving surveys for the sensitive marine habitat impact assessment. The scope of work entailed completing surveys for sensitive marine habitat and species along an abandoned coastal pipeline and four proposed anchorage points offshore of Solimar Beach in Ventura County.

Project Manager, Anchor Engineering, Inc. – Orinda North Lane Storm Drain Project, Contra Costa County
Eric performed pre-construction surveys, biological monitoring, and compliance reporting for the Orinda North Storm Drain Project located in Contra Costa County. The project was implemented in response to previous flooding that caused mud and debris flows to cascade over Camino Pablo and into the East Bay Municipal Water District Water Treatment Plant during storm events. The project consisted of constructing a flood flow bypass culvert, including a new upstream headwall, installation of a 60-inch diameter storm drain culvert, and a new headwall with rock slope protection at the outlet into San Pablo Creek. Work included pre-construction surveys and daily biological monitoring for nesting birds, rare plants, Alameda striped racer, California red-legged frog, foothill yellow-legged frog, and other special-status aquatic species, as well as inspection of the water diversion system for trapped wildlife. Eric was one of the monitors approved by California Department of Fish and Wildlife and United States Fish and Wildlife to conduct monitoring activities per the requirements of a California Department of Fish and Wildlife Section 1602 Agreement and the guidelines of the United States Fish and Wildlife Section 7 Consultation.

Menso de Jong, PhD

Lead Water Resources Scientist

Dr. de Jong has experience evaluating existing water resources, developing approaches for resource development, providing scientific support and oversight during new well construction, and conducting technical field and analytical work in support of well yield testing and aquifer characterization. His environmental assessment experience includes oversight, planning, and reporting during all phases of investigation, remedial excavations, and compliance and closure monitoring and sampling. Dr. de Jong has supported clients' water resource needs on a wide range of scales, from groundwater and surface water resource evaluations and development for single parcel water systems to basin-wide planning, monitoring, and operations.

Dr. de Jong has experience overseeing water well drilling operations throughout the greater Southern California region. His experience spans the complete timeline of well construction from siting studies to construction oversight and testing, including geologic logging, geophysical log interpretation, well design, pumping tests, and water storage and management. He has worked on wells drilled via hollow stem auger, rotosonic, air and mud rotary, and reverse circulation techniques in both alluvial aquifers and in fractured bedrock. His projects of note have included single-parcel water systems, large municipal wells and agricultural wellfields, single and multi-completion monitoring well projects, angled borings, and wells sited at challenging locations requiring advanced conceptualizations of subsurface structural geology. He has contributed to well siting and water resource evaluation studies in numerous technically challenging and regulation-limited environments, including groundwater-surface water interaction studies for cannabis irrigation regulatory compliance, well siting on parcels straddling multiple jurisdictional boundaries, and well siting in locations containing zones of contamination-impacted groundwater.

EDUCATION

PhD, Earth Science, University of California, Santa Barbara

MS, Geology, California State University, East Bay

BS, Earth Science, California Polytechnic University, San Luis Obispo

CERTIFICATIONS/ REGISTRATIONS

California PG No. 9944

OSHA 40 Hour HAZWOPER

YEARS OF EXPERIENCE

12

SELECT PROJECT EXPERIENCE

Technical Lead Geologist, South San Luis Obispo Community Services District – Wastewater Treatment Facility Hydrogeologic Evaluations, San Luis Obispo County

Dr. de Jong led a technical study to evaluate hydrologic variables affecting interconnected surface water and groundwater in the vicinity of the Arroyo Grande Creek Lagoon and Meadow Creek Lagoon system. He compiled and analyzed time-series data from surface water discharge gages, reservoir release schedules, local and regional climate records, flood control projects, and other hydrologic controls to assess potential impacts from construction dewatering activities associated with facility upgrades.

Technical Lead, Imperial Irrigation District – All American Canal Data Gap Assessment and Field Recommendations, Imperial County

Dr. de Jong contributed technical expertise to assess previously compiled reports and identify data gaps regarding seepage and groundwater dynamics near an unlined irrigation canal. Through research of publicly available well data and applied geomorphology in the Salton Sink region, his work resulted in a reevaluation of the existing conceptual model. His input culminated in a report detailing recommendations for field activities to close data gaps and field-truth outcomes from the existing three-dimensional groundwater model developed for the site. He is presently leading the well design and bid solicitation efforts to develop a pilot

testing wellfield consisting of a full-scale seepage water recovery well and a total of approximately 10 nested deep monitoring wells and shallow piezometers.

Staff Geologist, Private Client – Single-Parcel Water System Well Siting and Construction Consultant, Groundwater/Surface Water Interactions Study, Malibu
Dr. de Jong provided oversight during drilling and construction activities for a single-parcel water system serving a new-construction home and conducted groundwater/surface water interactions studies for regulatory compliance. His responsibilities included coordination of drilling contractors, borehole logging, and process documentation and reporting. Impact studies included frequent GPS surveys of surface flow daylighting points, field water quality assessments of spring and surface water, barometrically corrected autonomous water level logger deployment and maintenance, and data compilation, analyses, and reporting. These activities served to identify any potential impacts of well development and pumping on water quality and flow characteristics in Encinal Creek, a coastal drainage with baseflow sustained by springs located in outcrops of a fractured sandstone.

Watershed Scientist, Upper Ventura River Basin – Groundwater Level Tracking, Ventura County
Dr. de Jong manages field activities and data compilation of groundwater levels in the Upper Ventura River Groundwater Basin. His team collects, compiles, analyzes, and presents time-series data documenting seasonal fluctuations in groundwater levels at a network of public and private wells. His team measures water levels in wells, maintains autonomous pressure transducers, and processes and delivers data on a semi-annual schedule for basin management through the local groundwater sustainability agency.

Technical Lead Hydrogeologist, Ventura County Watershed Protection District – San Antonio Creek Spreading Grounds Diversion Testing, Ojai
Dr. de Jong has supported data collection and assessment since November 2022, which recently culminated in an Operations Report that detailed operations, maintenance, monitoring, and data collection efforts completed in support of surface water diversion and groundwater replenishment testing. Project components included assessment, maintenance, and operation of the San Antonio Creek diversion and groundwater replenishment infrastructure, photographic and video documentation of flow conditions at various points in San Antonio Creek, and flow and water quality data collection. The purpose of this project is to support District management decisions related to future operations of the groundwater replenishment project.

Technical Lead Geologist, Montecito Groundwater Sustainability Agency – Groundwater Monitoring Well Program, Santa Barbara County
Dr. de Jong led a planning, design, and installation efforts to add multiple purpose-built monitoring wells to Montecito Groundwater Sustainability Agency's network of water level and water quality monitoring points. Five wells were completed to fill data gaps in the agency's seawater intrusion and water level monitoring network and enhance the basin groundwater model with aquifer parameter estimates and subsurface geologic data. He provided field oversight for drilling activities, aquifer testing, and geochemical analyses.

Technical Lead Geologist, Montecito Groundwater Sustainability Agency – Aquifer Testing and Monitoring Wells, Santa Barbara County
Dr. de Jong led the siting, design, bid solicitation, and construction oversight efforts for the construction of multiple deep monitoring wells. Utilizing modern rotosonic drilling with continuous coring, boreholes were advanced up to 254 feet below ground surface and completed as 2-inch to 6-inch casing wells for groundwater level monitoring and aquifer pump testing data acquisition. Additionally, he designed a deep nested 620-foot-deep monitoring well drilled via mud rotary methods for sea water intrusion monitoring, the construction of which was completed in May 2023.

Technical Lead Geologist, Private Clients – Dry Cleaner Site Soil Vapor Extraction System Evaluations, Santa Barbara County
Dr. de Jong has guided testing of multiple soil vapor extraction (SVE) systems throughout Santa Barbara County. SVE systems are intended to address organic solvent contamination in soil and groundwater due to commercial and industrial activities. Incorporating site assessment data and lithology, Dr. de Jong has designed and overseen pilot testing plans to determine SVE system efficacy, delineate captures zones, and optimize long term operational protocols.

Appendix B

Signed Addendum

ADDENDUM NO. 1

TO REQUEST FOR PROPOSALS FOR THE

ALISO CREEK LIFT STATION REHABILITATION PROJECT
CEQA COMPLIANCE

THE CONTRACT DOCUMENTS ARE HEREBY MODIFIED AS FOLLOWS:

Proposer Clarifications

Attached as Exhibit No. 1 is the pre-proposal meeting sign-in sheet.

Proposer Questions

Question 1: Will ETWD take care of the NEPA scope of work later under separate contract and do you anticipate a Categorical Exclusion, if so which one would you be seeking?

> If awarded, ETWD will work with FEMA staff to complete the NEPA scope of work and determine whether a Categorical Exclusion is appropriate.

Question 2: Will the 2022 Generator Replacement Project (referenced on Page 2 of the RFP) features be considered along with the Alternative 1C improvements as one project for the purpose of CEQA compliance?

> Yes, the Alternative 1C improvement includes the necessary generator replacement and gate access modifications that were previously included as part of the cancelled 2022 generator replacement project.

Question 3: Can some technical analyses (such as GHG and energy) be considered in the Initial Study Section with appropriate appended technical modeling data appended, or is a stand-alone report required for each environmental topic area specified in the RFP?

> Yes, some technical analysis can be included in the Initial Study Section with appropriate appended technical modeling data instead of stand-alone reports for each topic area.

Question 4: Can all of the required cultural resource analyses listed in the RFP (i.e., archeological, historical, and paleontological) be included under one report cover, or do each topic area require a separate report?

As long as the submittals achieve CEQA compliance, ETWD encourages the Consultant to use their discretion about the separation or combination of required reports.

Question 5: Will the District circulate the Notice of Intent in the local newspaper or would the consultant be required to do this scope?

The District will circulate the Notice of Intent in the local newspaper.

Question 6: Confirm if the CDFW Filing Fee, for the Notice of Determination, should be included or excluded from the scope of work.

The Consultant shall include the CDFW filing fee, if applicable, in their scope of work.

Question 7: How tall is the wall around the lift station?

The wall is approximately 6-feet tall.

Question 8: Who owns the right-of-way for the trail?

The parcel adjacent to the lift station that includes the trail appears to be owned by the Golden Rain Foundation. The District will obtain more information as design progresses.

Question 9: Can you provide the as builts for the lift station?

Relevant as builts are uploaded in the “Documents” tab of the PlanetBids portal.

END OF ADDENDUM NO. 1

The contract documents require that this Addendum No. 1 be executed and submitted with the bid.

Date: 8/20/2024

Hannah Ford
Digitally signed by Hannah Ford
Reason: I am approving this document
Date: 2024.08.20 15:42:01-07'00'

Hannah T. Ford, P.E.
Director of Engineering / District Engineer

PROPOSER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 1 and accept all conditions contained herein.

Dated: September 9, 2024

PROPOSER: Jennifer Jacobus

BY: Jennifer Jacobus, Principal-in-Charge

Office Locations

Carlsbad
2215 Faraday Avenue
Suite A
Carlsbad, California 92008
760-918-9444

Fresno
4589 North Marty Avenue
Suite 102
Fresno, California 93722
559-228-9925

Los Angeles
250 East 1st Street
Suite 1400
Los Angeles, California 90012
213-788-4842

Monterey
80 Garden Court
Suite 240
Monterey, California 93940
831-333-0310

Oakland
449 15th Street
Suite 303
Oakland, California 94612
510-834-4455

Palm Springs
777 East Tahquitz Canyon Way
Suite 200-127
Palm Springs, California 92262
760-203-5120

Riverside
11801 Pierce Street
Suite 200
Riverside, California 92505
951-405-0979

Sacramento
4825 J Street
Suite 200
Sacramento, California 95819
916-706-1374

San Diego
8825 Aero Drive
Suite 120
San Diego, California 92123
760-918-9444

San José
99 South Almaden Boulevard
San José, California 95113
408-577-3008

San Luis Obispo
1530 Monterey Street
Suite D
San Luis Obispo, California 93401
805-547-0900

Santa Barbara
319 East Carrillo Street
Suite 105
Santa Barbara, California 93101
805-319-4092

Ventura (headquarters)
180 North Ashwood Avenue
Ventura, California 93003
805-644-4455

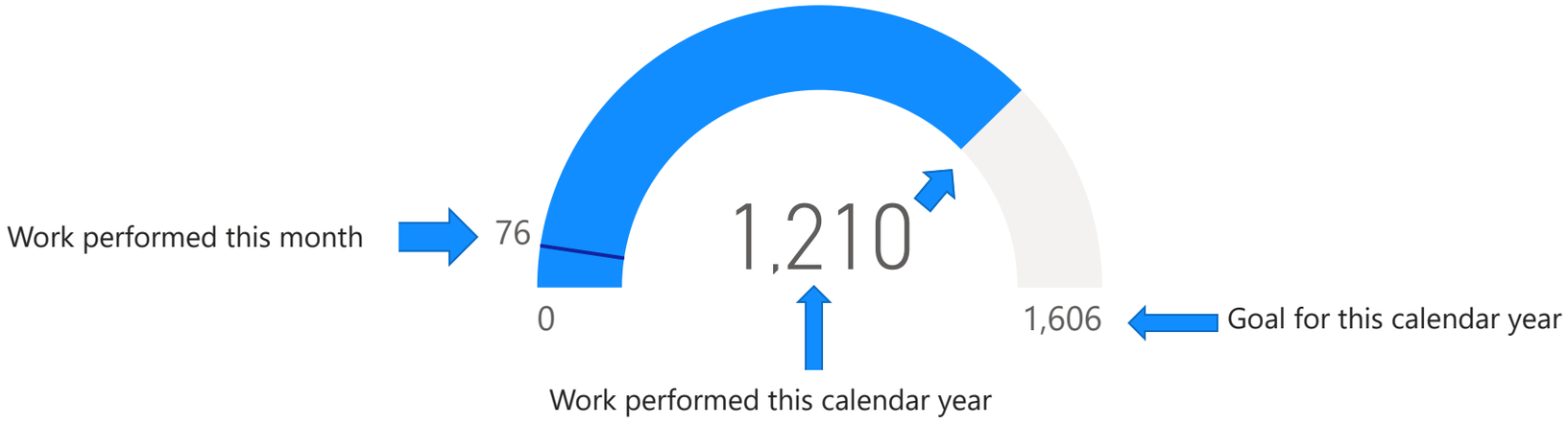
rincon | CELEBRATING 30 YEARS

RINCON CONSULTANTS, INC. SINCE 1994

Operations Report

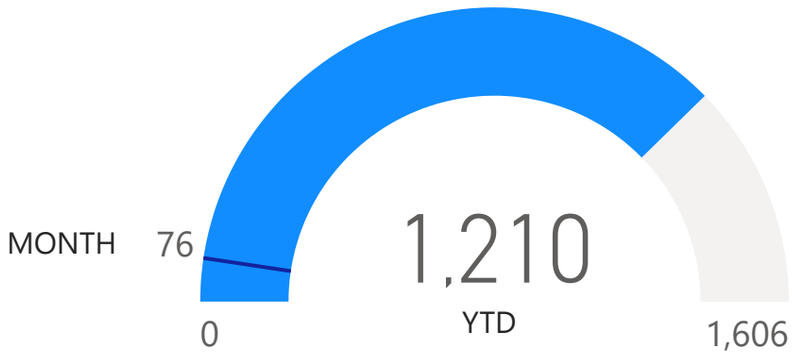
August 2024

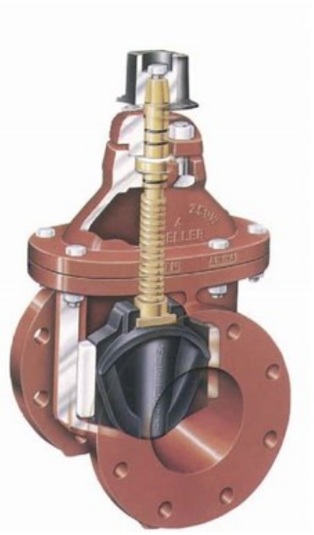
How to read the graphics in this report:



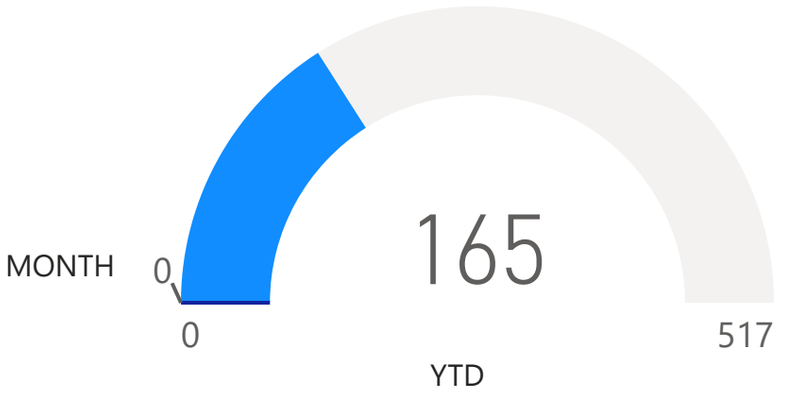
Valves

Distribution Valves Operated
Mainline

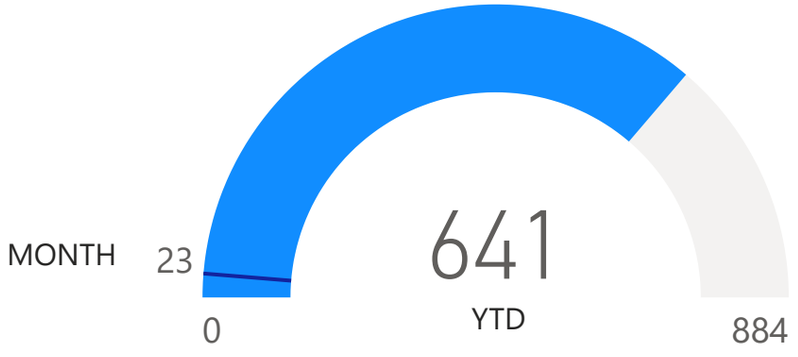




Arterial Valves Operated
Mainline

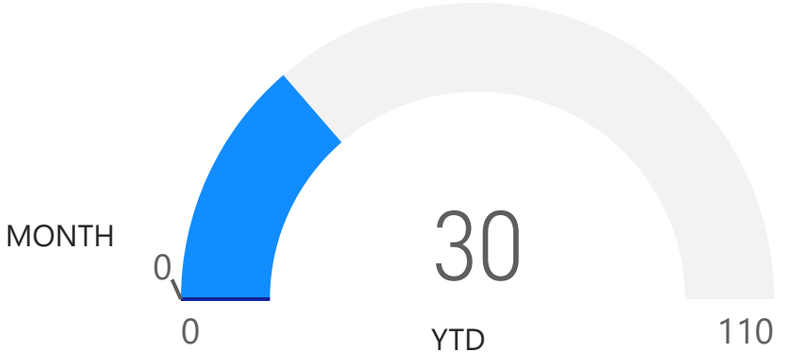


Distribution Valves Operated
Fire Hydrant



Asset	Month	YTD
Potable Valves Repaired	0	6
Potable Valves Replaced	1	10
Valve Cans Adjusted/Replaced	7	30
Valve Cans Cleaned	7	11
Total	**15**	**57**

Arterial Valves Operated
Fire Hydrant



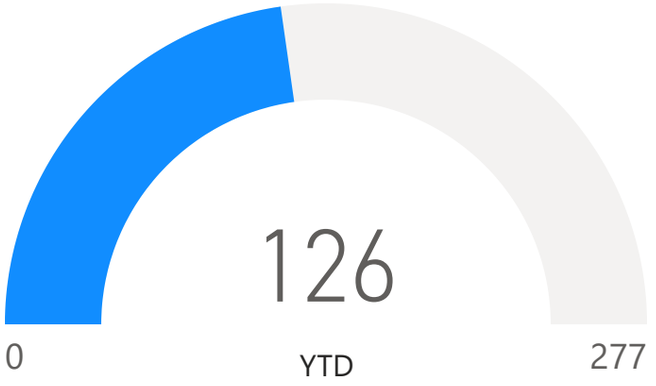
Note:

1. The distribution valve operation program strives to operate all distribution valves (mainline and fire) every two years. Goals shown on this page represent that for the calendar year (i.e., total number of distribution valves divided by two).
2. The arterial valve operation program strives to operate all arterial valves (mainline and fire) every year.

Cross Connection Program

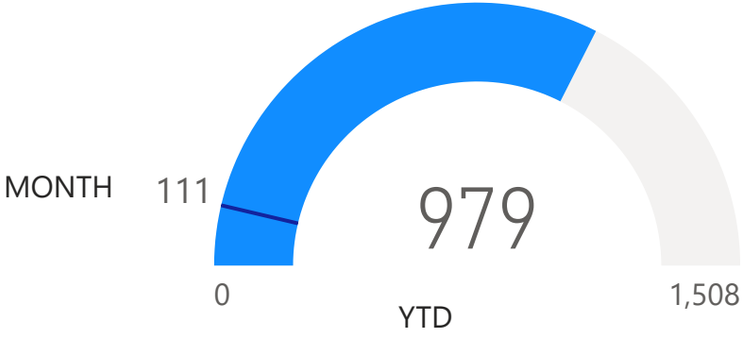
Backflow Assemblies Tested

Recycled Water Inspections



Other Facility Maintenance

Generator Inspections



Underground Service Alerts Marked

177

Month

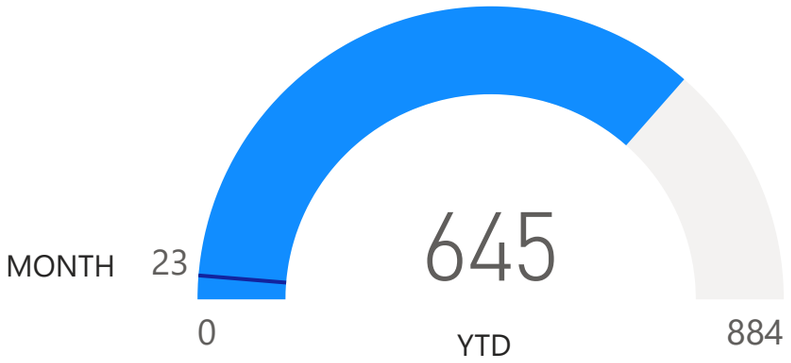
Underground Service Alerts Marked

1,540

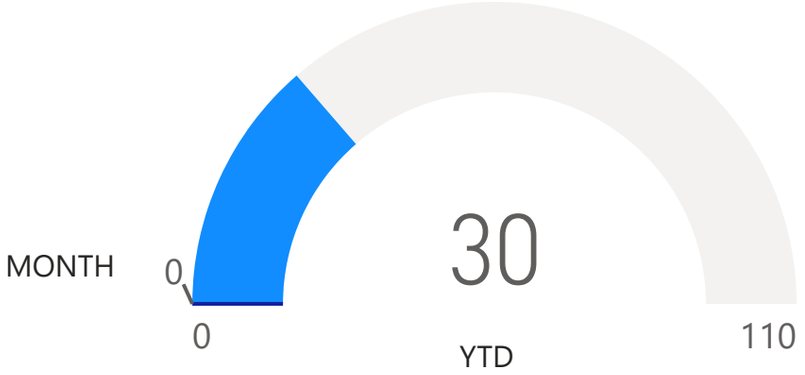
YTD

Fire Hydrants

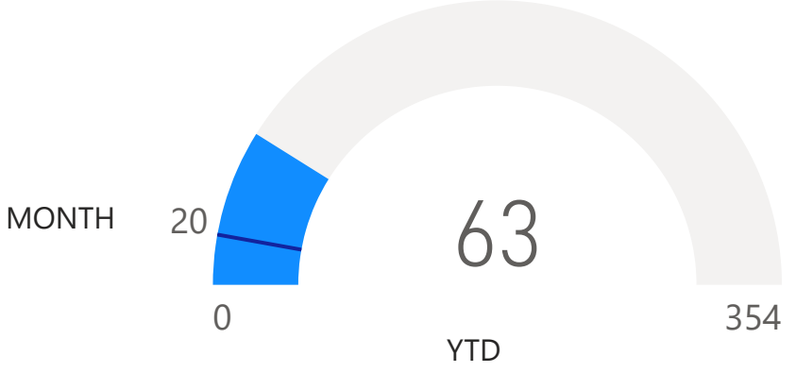
Distribution Hydrants Maintained



Arterial Hydrants Maintained

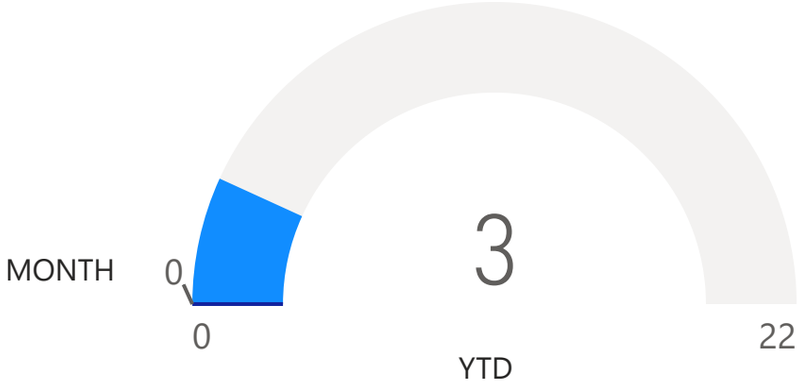


Distribution Hydrants Painted



Asset	Month	YTD
Hydrants Repaired	0	12
Hydrants Replaced	0	9
Total	**0**	**21**

Arterial Hydrants Painted

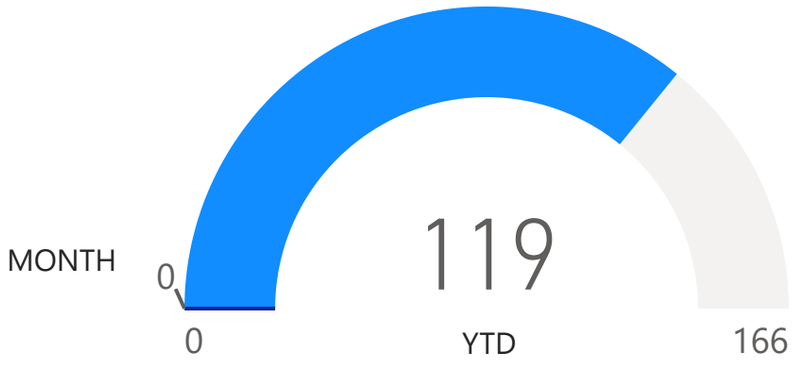


Note:

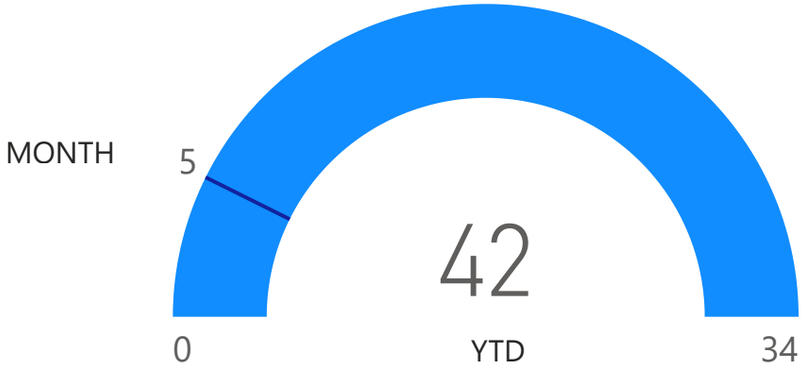
1. The hydrant program strives to maintain all distribution hydrants every two years and arterial hydrants every year. Goals shown on this page represent that for the calendar year (i.e., total number of distribution hydrants divided by two).
2. The hydrant program strives to paint all hydrants every five years. Goals shown on this page represent that for the calendar year (i.e., total number of hydrants divided by five).

Water Appurtenances

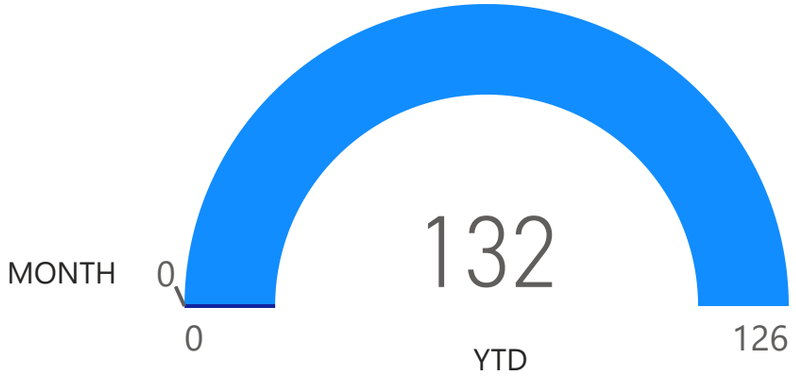
Air Vacs Maintained



PRVs Maintained

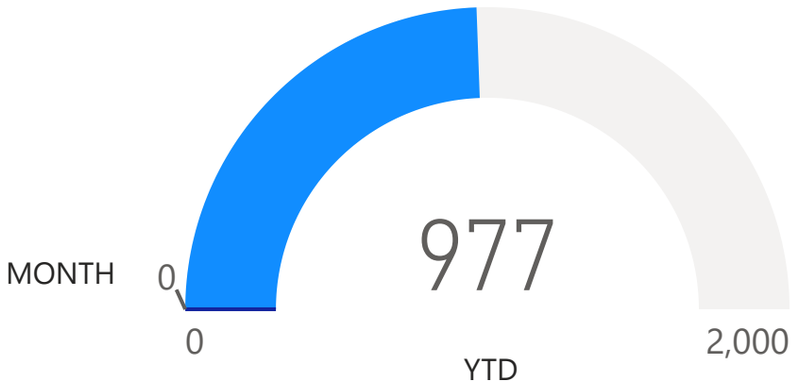


Blow Offs Flushed



Water Distribution System

Leak Detection Survey



System Flushing

gallons

179K

Month

Asset	Month	YTD
Main Line Repairs	0	2
Service Line Repairs	0	8
Service Line Replacement	1	17
Water Pump Motor Services	2	9
Water Pump Services	2	4
Water Reservoir and Pump Station Inspections	111	868

System Flushing

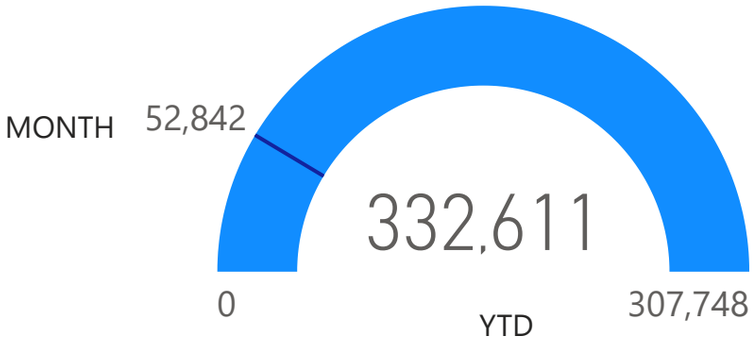
gallons

964K

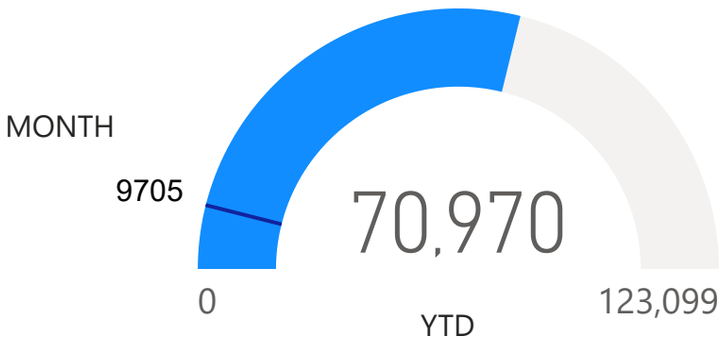
YTD

Collection System

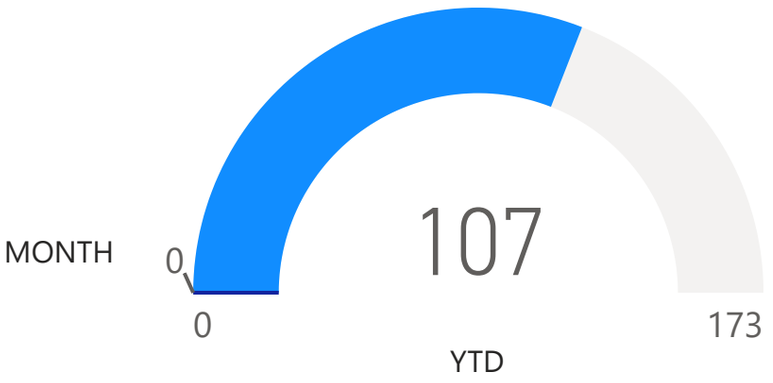
Line Cleaning
feet of pipe



TV Inspection
feet of pipe

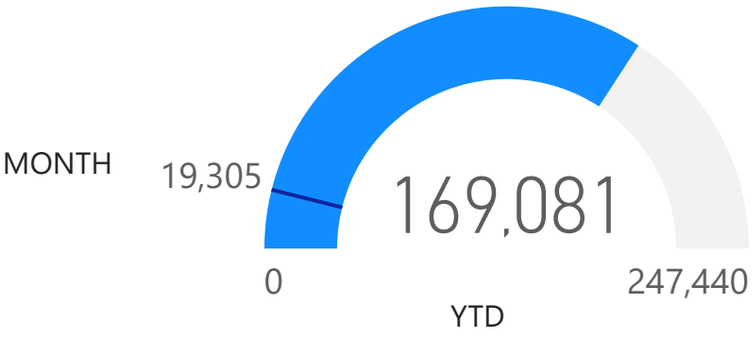


FOG Inspections

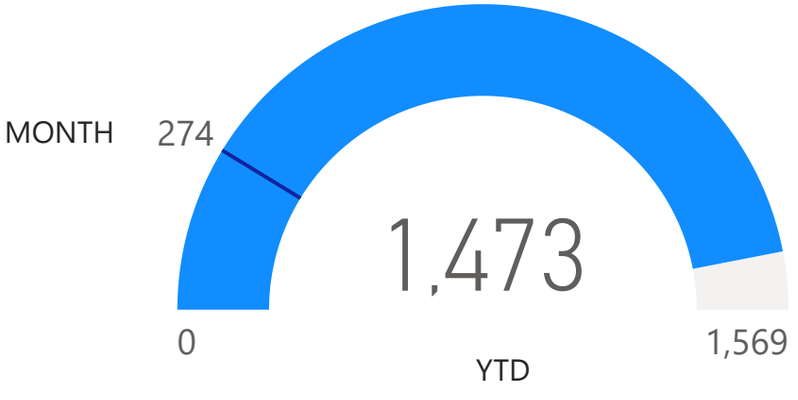


Asset	Month	YTD
Industrial Waste Inspections	0	174
Lift Station Inspections	97	771
Manhole Repairs	0	5
Odor Complaints	0	2
Root Cutting, feet of pipe	0	0
Root Foaming, feet of pipe	0	1,409
Sewer Mainline Repairs	0	0
Sewer Pump/Motor Maintenance	0	36
Sewer Service Line Repairs	0	2
Wet Well Cleaning	3	26

Hotspots
feet of pipe



Manhole Inspections



Note:

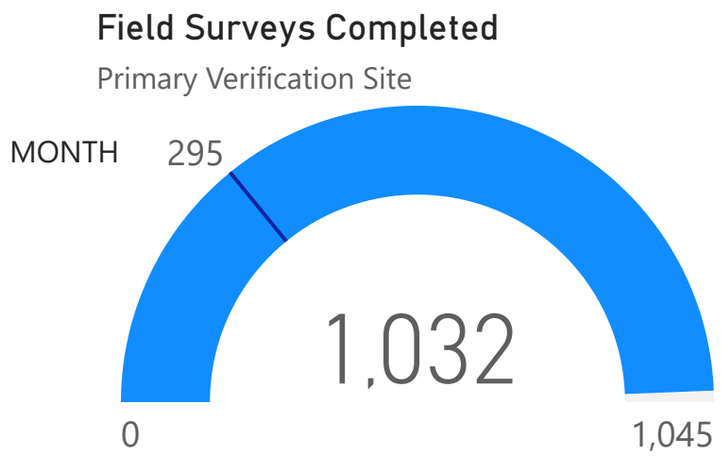
1. The line cleaning objective is a two year cycle to clean the entire system. The current cycle began on 7/1/2022.
2. The TV inspection objective is a five year cycle to inspect the entire system. The current cycle began on 1/25/2021.

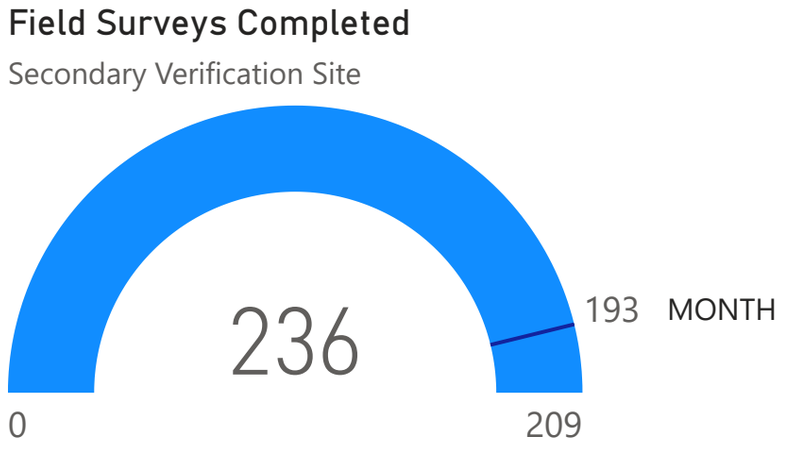
EL TORO WATER DISTRICT
UNAUTHORIZED DISCHARGE SUMMARY
YEAR OF 2024

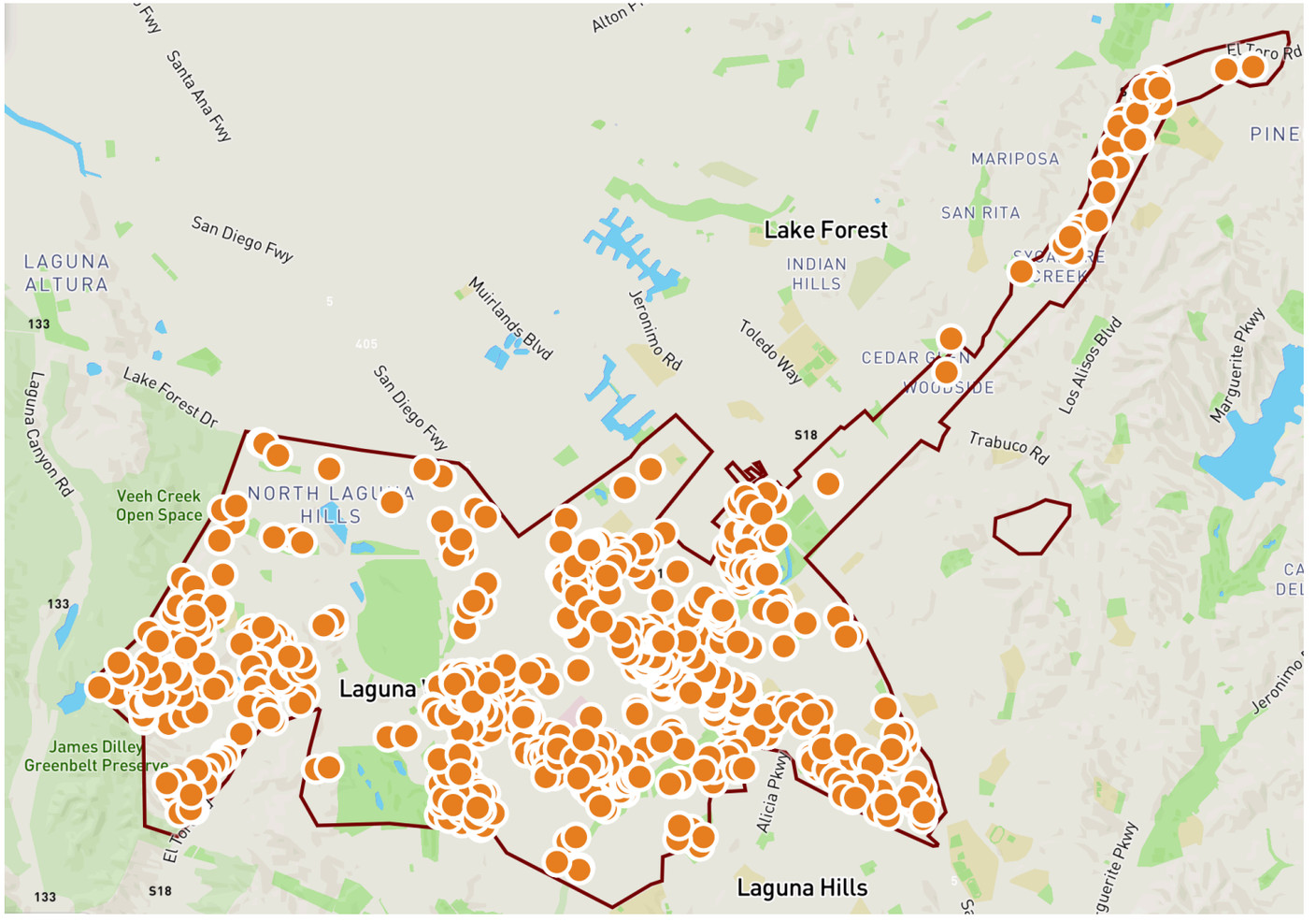
DATE	PUBLIC / PRIVATE	SPILL TYPE	LOCATION	REASON	IMMEDIATE CORRECTIVE MEASURES	POST-INCIDENT PREVENTIVE MEASURES	RWQCB	DISCHARGED TO	SPILL VOLUME (PUBLIC) Gallons		SPILL VOLUME (PRIVATE) Gallons		REGULATORY NOTIFICATION AND RESPONSE
									CONTAINED	SPILLED	CONTAINED	SPILLED	
January	No Spill												
February	No Spill												
March	No Spill												
April	No Spill												
May	No Spill												
June	No Spill												
July	No Spill												
August	No Spill												
LEGEND									0	0	0	0	

S.DC = San Diego Creek	RES. = Residential	R.S. = Rocks
S.D. = Storm Drain	C. = Commercial	C.W.D. = Calcium Water Deposits
A.C. = Aliso Creek	S.B. = Siphon	B.P, = Broken Pipe
G.B. = Grease Blockage	P.F. = Power Failure	U.W. = Untreated Water
S. = Sticks	P. = Paper	R. = Roots

Lead and Copper Rule Revisions (LCRR) Compliance

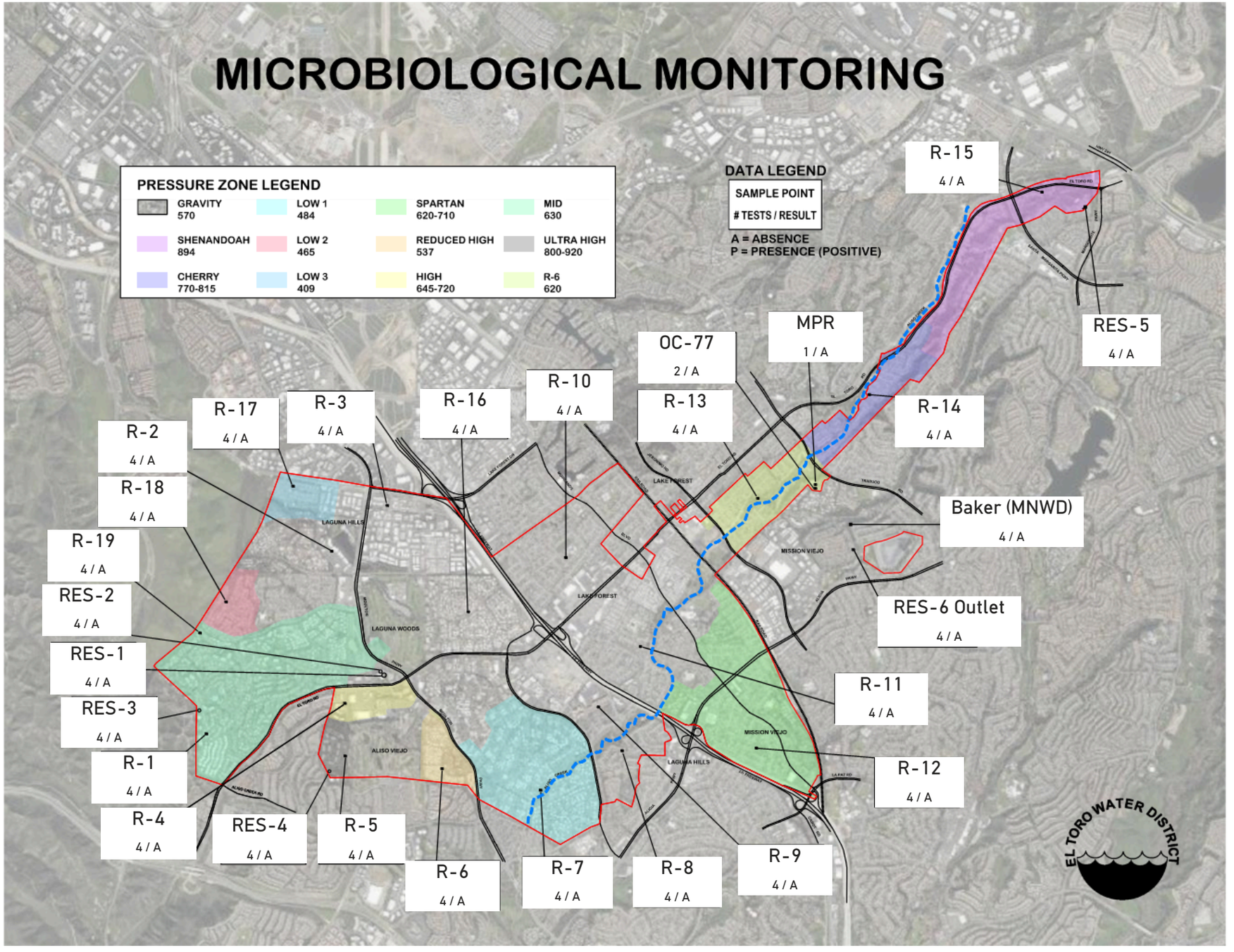


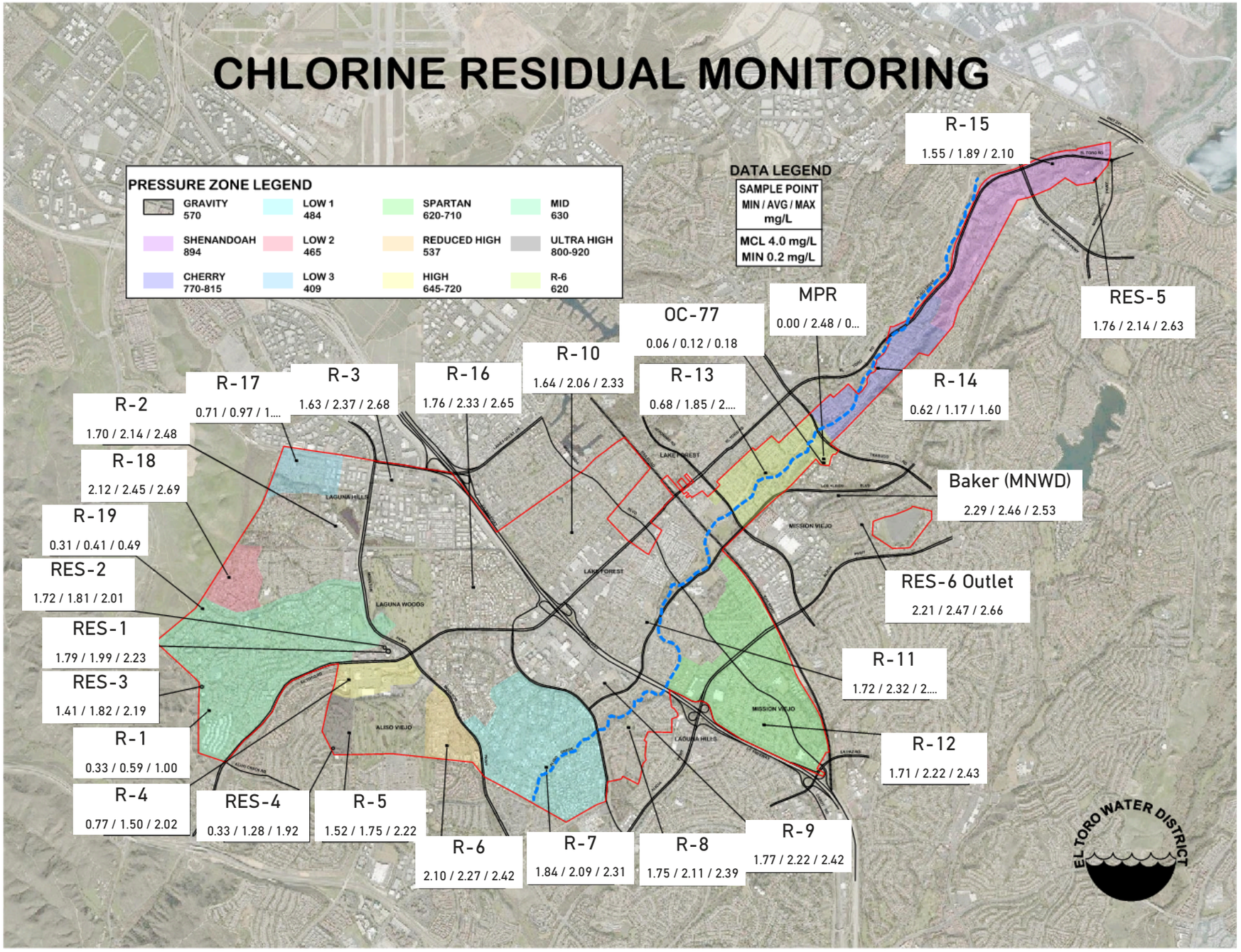


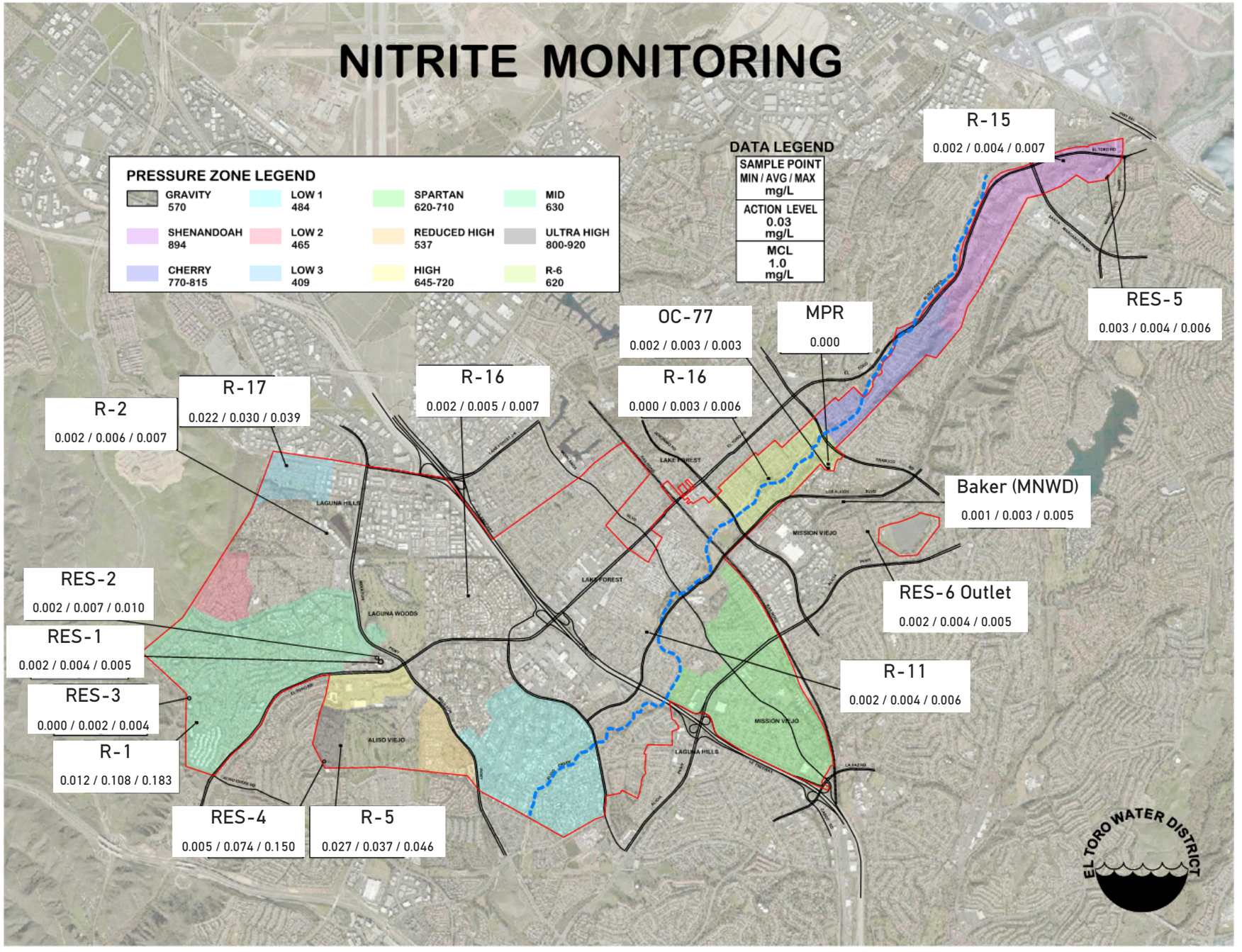


Orange dots represent locations where field surveys have been completed.
To date, the District has not found any lead in its service area.

MICROBIOLOGICAL MONITORING




CHLORINE RESIDUAL MONITORING
PRESSURE ZONE LEGEND
GRAVITY 570
LOW 1 484
SPARTAN 620-710
MID 630
SHENANDOAH 894
LOW 2 465
REDUCED HIGH 537
ULTRA HIGH 800-920
CHERRY 770-815
LOW 3 409
HIGH 645-720
R-6 620
DATA LEGEND
SAMPLE POINT MIN / AVG / MAX mg/L
MCL 4.0 mg/L
MIN 0.2 mg/L
R-15 1.55 / 1.89 / 2.10
RES-5 1.76 / 2.14 / 2.63
MPR 0.00 / 2.48 / 0...
OC-77 0.06 / 0.12 / 0.18
R-10 1.64 / 2.06 / 2.33
R-13 0.68 / 1.85 / 2....
R-14 0.62 / 1.17 / 1.60
R-17 0.71 / 0.97 / 1....
R-3 1.63 / 2.37 / 2.68
R-16 1.76 / 2.33 / 2.65
R-2 1.70 / 2.14 / 2.48
R-18 2.12 / 2.45 / 2.69
Baker (MNWD) 2.29 / 2.46 / 2.53
R-19 0.31 / 0.41 / 0.49
RES-2 1.72 / 1.81 / 2.01
RES-6 Outlet 2.21 / 2.47 / 2.66
RES-1 1.79 / 1.99 / 2.23
R-11 1.72 / 2.32 / 2....
RES-3 1.41 / 1.82 / 2.19
R-12 1.71 / 2.22 / 2.43
R-1 0.33 / 0.59 / 1.00
R-4 0.77 / 1.50 / 2.02
RES-4 0.33 / 1.28 / 1.92
R-5 1.52 / 1.75 / 2.22
R-6 2.10 / 2.27 / 2.42
R-7 1.84 / 2.09 / 2.31
R-8 1.75 / 2.11 / 2.39
R-9 1.77 / 2.22 / 2.42
LAGUNA HILLS
LAKE FOREST
LAGUNA WOODS
ALISO VIEJO
MISSION VIEJO
EL TORO WATER DISTRICT


NITRITE MONITORING
PRESSURE ZONE LEGEND
GRAVITY 570
LOW 1 484
SPARTAN 620-710
MID 630
SHENANDOAH 894
LOW 2 465
REDUCED HIGH 537
ULTRA HIGH 800-920
CHERRY 770-815
LOW 3 409
HIGH 645-720
R-6 620
DATA LEGEND
SAMPLE POINT MIN / AVG / MAX mg/L
ACTION LEVEL 0.03 mg/L
MCL 1.0 mg/L
R-15
0.002 / 0.004 / 0.007
RES-5
0.003 / 0.004 / 0.006
OC-77
0.002 / 0.003 / 0.003
MPR
0.000
R-16
0.002 / 0.005 / 0.007
R-16
0.000 / 0.003 / 0.006
R-17
0.022 / 0.030 / 0.039
R-2
0.002 / 0.006 / 0.007
Baker (MNWD)
0.001 / 0.003 / 0.005
RES-2
0.002 / 0.007 / 0.010
RES-1
0.002 / 0.004 / 0.005
RES-6 Outlet
0.002 / 0.004 / 0.005
R-11
0.002 / 0.004 / 0.006
RES-3
0.000 / 0.002 / 0.004
R-1
0.012 / 0.108 / 0.183
RES-4
0.005 / 0.074 / 0.150
R-5
0.027 / 0.037 / 0.046
LAGUNA HILLS
LAKE FOREST
LAGUNA WOODS
ALISO VIEJO
MISSION VIEJO
EL TORO WATER DISTRICT

EL TORO WATER DISTRICT
MONTHLY POTABLE WATER QUALITY REPORT

The quality and safety of drinking water in the U.S. is regulated by the federal government through the U.S. Environmental Protection agency (USEPA). In California, those standards are enforced by the California Department of Public Health (CDPH). Water Quality parameters must meet both primary and secondary water quality standards as established by the CDPH.

PRIMARY STANDARDS - are intended to protect public health against substances in the water that may be harmful to humans if consumed for long periods of time.

SECONDARY STANDARDS - are to ensure esthetic qualities of water such as taste, odor or clarity. Rather than its healthfulness, these standards govern substances that may influence consumer acceptance of water.

Given that 100% of ETWD's potable water resource is fully treated and delivered by Metropolitan Water District of southern California (MWDSC) through an enclosed and protected conveyance system, the majority of the State and federal primary and secondary source water quality monitoring requirements are performed by MWDSC. The District's physical responsibility for water quality monitoring is associated with the distribution system. To monitor the distribution system water quality the District utilizes both in house and outside lab services. Routine distribution analysis conforming to CDPH requirements is conducted for the following constituents:

1) Microbiological - The number of microbiological samples and the frequency of analysis during the month is based on the population and/or service connections served. Utilizing a population of 50,000, the CDPH requires that 20 "representative" samples be collected and analyzed for coliform bacteria. The objective is to maintain water quality that is absent of coliform bacteria which is a general indicator for the existence of fecal coliform.

2) Chlorine Residual - The chlorine residual monitoring is performed in conjunction with the microbiological monitoring. The CDPH requirement for treated surface water mandates that the distribution system maintain a "detectable" residual. The number of and frequency of sampling is determined utilizing the same formula applied to microbiological requirements. At a minimum, we are obligated to collect and analyze for chlorine residual each time we collect the representative microbiological samples. Per EPA Disinfectants & Disinfection Byproduct Rule (D/DBP), which was effective January 2002, requires quarterly reporting for all sampling.

3) TTHM & HAA5 Stage 2 DBPR Compliance The U.S. Environmental Protection Agency (EPA) published the Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBPR) on January 4, 2006. The Stage 2 DBPR builds on existing regulations by requiring water systems to meet disinfection byproduct (DBP)* maximum contaminant levels (MCLs) at each monitoring site in the distribution system to better protect public health. The Stage 2 DBP rule is intended to reduce potential cancer and reproductive and developmental health risks from disinfection byproducts (DBPs) in drinking water, which form when disinfectants are used to control microbial pathogens.
This final rule strengthens public health protection for customers of systems that deliver disinfected water by requiring such systems to meet maximum contaminant levels as an average at each compliance monitoring location (instead of as a system-wide average as in previous rules) for two groups of DBPs, trihalomethanes (TTHM) and five haloacetic acids (HAA5). The rule targets systems with the greatest risk and builds incrementally on existing rules.
This regulation will reduce DBP exposure and related potential health risks and provide more equitable public health protection. The Stage 2 DBPR is being released simultaneously with the Long Term 2 Enhanced Surface Water Treatment Rule to address concerns about risk tradeoffs between pathogens and DBPs.

The mandatory requirement under the Stage 2 DBP rule, known as an Initial Distribution System Evaluation (IDSE) was completed by ETWD in 2008 and a Stage 2 monitoring plan has been approved by CDPH. Full Stage 2 compliance begins in 2012. The IDSE identified the locations with high disinfection byproduct concentrations. These locations will then be used by the District as the 8 sampling sites for Stage 2 DBP rule compliance monitoring. Compliance with the maximum contaminant levels for two groups of disinfection byproducts (TTHM and HAA5) will be calculated for each monitoring location in the distribution system. This approach, referred to as the locational running annual average (LRAA), differs from current requirements, which determine compliance by calculating the running annual average of samples from all monitoring locations across the system. The Stage 2 DBP rule also requires each system to determine if they have exceeded an operational evaluation level, which is identified using their compliance monitoring results. The operational evaluation level provides an early warning of possible future MCL violations, which allows the system to take proactive steps to remain in compliance. A system that exceeds an operational evaluation level is required to review their operational practices and submit a report to the state that identifies actions that may be taken to mitigate future high DBP levels, particularly those that may jeopardize their compliance with the DBP MCLs.

4) Physical Quality - **Physical Quality analysis is associated with the esthetic qualities of the finished water. Primarily, we are performing analysis for taste, odor and Turbidity (Clarity). In accordance with CDPH requirements, the District collects a minimum of 15 samples per month.**

5) Nitrites - **Although the chloramine disinfection process has been effective in controlling TTHM levels, it requires increased monitoring and adjustment as a result of its susceptibility to the Nitrification process. Nitrification is a biological process caused by naturally occurring ammonia oxidizing bacteria. Nitrification in chloraminated drinking water can have various adverse impacts on water quality, the most serious of which is the loss of total chlorine residual which is required by the CDPH and the subsequent potential to increase bacteria-iological activity within the finished or treated water system. MWD has developed an effective nitrification monitoring and prevention program which ETWD staff have adopted and incorporated into the District's daily water quality monitoring and action plan. The number and frequency of this type of monitoring is not currently regulated by CDPH. Staff monitor the level of nitrites in source water, reservoirs and the distribution system daily and weekly in conjunction with the microbiological and chlorine sampling program. A nitrite level of between 0.015 and 0.030 would signal an alert. > 0.030 would require action such as the addition of chlorine to produce a chloramine residual.**

EL TORO WATER DISTRICT
MONTHLY POTABLE WATER QUALITY ANALYSIS
MONTH: August YEAR : 2024

CONSTITUENT		INSIDE LAB		OUTSIDE LAB	
ANALYSIS	MCL	NO.	RESULTS	NO.	RESULTS
1 Microbiological	Pres/Absence	112	Absence		Average
2 Chlorine (ppm) In Field	Detectable Resid	129	Average = 1.52 ppm		
3 TTHM (ppb) (Stage 2)	80 ppb				
3 HAA5 (ppb) (Stage 2)	60 ppb				
4 Physical Quality:			RANGE		
Turbidity (ppm)	5 NTU	20	0.02 to 0.08 Res.		
Odor	3 Units	20	ND<1		
Color	15 Units	20	ND<5		
Temperature	No standard	20	77°F To 89°F		
5 Nitrite (Alert/Action level) ppm	0.002 to 0.179 ppm	129	0.000 to 0.183		

To ensure water quality compliance, the District annually performs approximately 8,750 water quality analytical evaluations of the samples collected from the distribution system.

Abbreviations:

RES	**Indicates that the nitrification was isolated to a reservoir and treated**
ND	**None detected**
Pres/Absence	**Presence (P) or Absence (A) related to a positive or negative bacteriological result**
MCL	**Maximum Contaminant Level**
NTU	**Nephelometric Turbidity Units, a measure of the suspended material in the water**
ppm	**Parts per million**
ppb	**Parts per billion**
Total Coliform	**No more than 5% of the monthly samples may be total coliform-positive**
N/A	**Not available**

Compliance Reports		
August Monthly Reports		
July's Surface Water Treatment (Bactis)	Due by August 10th Submitted August 6th	Sent to Region 8, Dennis Cafferty and Scott Hopkins
July's Revised Total Coliform Monitoring (Bactis)	Due by August 10th Submitted August 6th	Sent to Region 8, Dennis Cafferty and Scott Hopkins
July's Self-Monitoring Report for Planned Discharges	Due by August 30th Submitted August 6th	Sent to Region 8, Dennis Cafferty and Scott Hopkins
July's Self-Monitoring Report for Recycled Water	Due by the 30th Submitted August 26th	Sent to Region 8, Dennis Cafferty and Scott Hopkins
September Monthly Reports		
August's Surface Water Treatment (Bactis)	Due by September 10th Submitted September 5th	Sent to Region 8, Dennis Cafferty and Scott Hopkins
August's Revised Total Coliform Monitoring (Bactis)	Due by September 10th Submitted September 5th	Sent to Region 8, Dennis Cafferty and Scott Hopkins
August Self-Monitoring Report for Recycled Water	Due by September 30th	Sent to Region 8, Dennis Cafferty and Scott Hopkins
August's Self-Monitoring Report for Planned Discharges	Due by September 30th	Sent to Region 8, Dennis Cafferty and Scott Hopkins

Staff Training Log 2024

First Quarter

Training Topic	Duration	Frequency	Modality	Participants
Safety Tailgate Meeting	30 Minutes	Weekly	In Person	Field Staff/Completed
Bloodborne Pathogens	1 Hour	Annual	Online	All Employees/Completed
Hearing	1 Hour	Annual	Online	All Employees/Completed
811 Dig Alert	2 Hours	As Needed	In Person Consultant	Field Staff/Need to Schedule
Spill Reporting	1 Hour	As Needed	In Person	Field Staff
Fit Testing	30 Mins	Annual	In Person	Field Staff/Completed
Class A	80 Hours	As Needed	In Person Consultant	2 Employees/Completed

Quarterly Total Hrs- 12
Total Hrs Completed- 9
2 Employees Hrs- 89 (Class A)

Second Quarter

Training Topic	Duration	Frequency	Modality	Participants
Safety Tailgate Meeting	30 Mins	Weekly	In Person	Field Staff
Fire Prevention	1 Hour	Annual	Online	All Staff/Assigned
Fire Extinguisher	1 Hour	Annual	Online	All Staff/Assigned
Silica	1 Hour	Annual	In Person Consultant	Field Staff/Completed
Asbestos AC Pipe	3 Hours	Annual	In Person Consultant	Field Staff/Completed
Line Locator	4 Hours	Annual	In Person Consultant	Field Staff/Need to Schedule
Sodium Hypochlorite	1 Hour	Annual	In Person	Field Staff/Need to Schedule
CPR/AED/First Aide	4 Hours	Every 2 Years	In Person Consultant	All Staff/Completed

Quarterly Total Hrs- 21.5
Total Hrs Completed- 16.5

Third Quarter

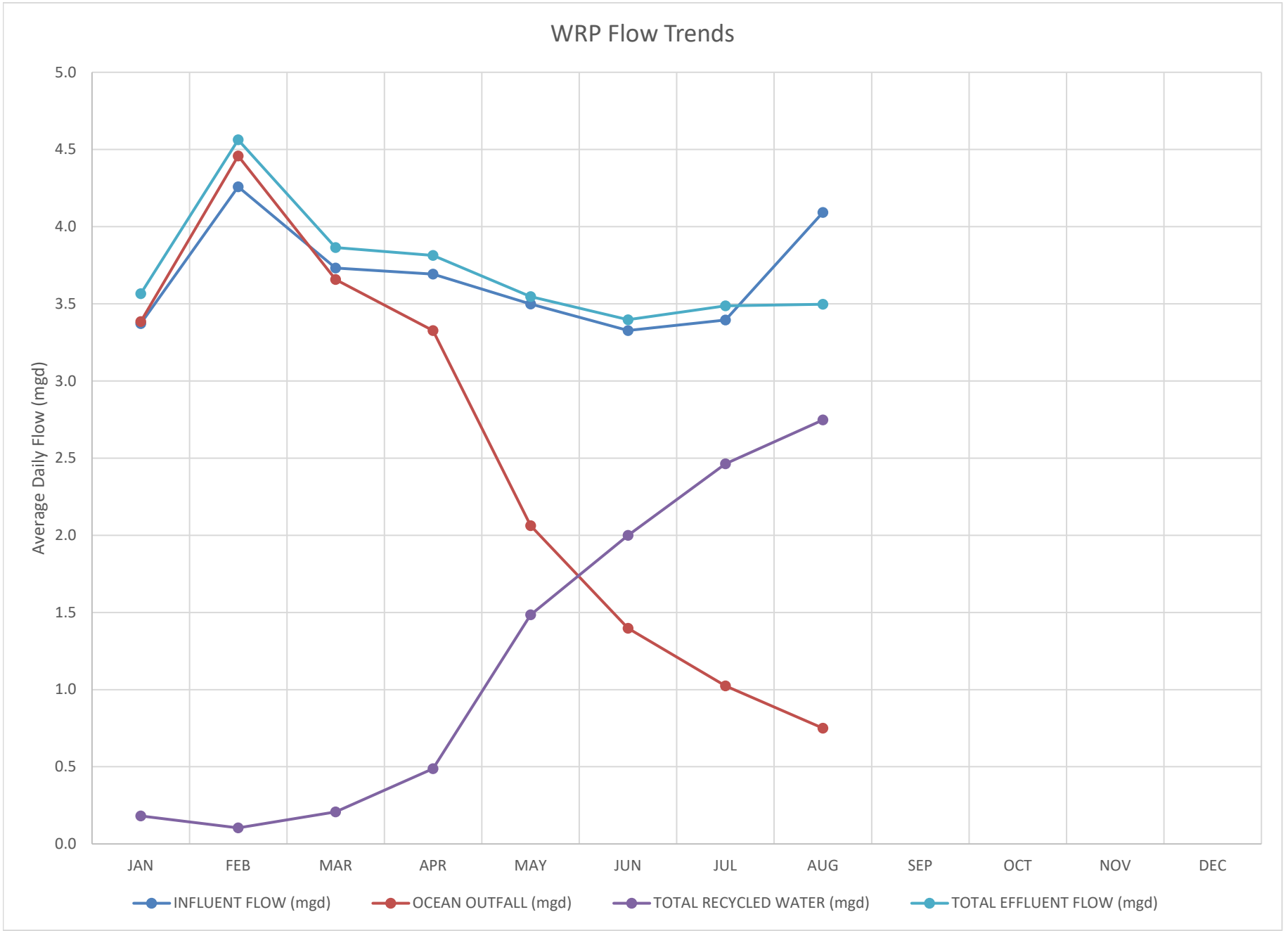
Training Topic	Duration	Frequency	Modality	Participants
Safety Tailgate Meeting	30 Mins	Weekly	In Person	Field Staff/Weekly
Low Voltage Electrical Safety	1 Hour	Annual	Online	Field Staff/Assigned
Working in Extreme Temperatures	1 Hour	Annual	Online	Field Staff/Assigned
General Office Ergonomics	1 Hour	Annual	Online	Field Staff/Assigned
Health and Wellness	1 Hour	Annual	Online	Field Staff/Assigned
HAZWOPER	8 Hours	Annual	In Person	Field Staff/Completed
SCBA	1 Hour	Annual	In Person	Need to Schedule

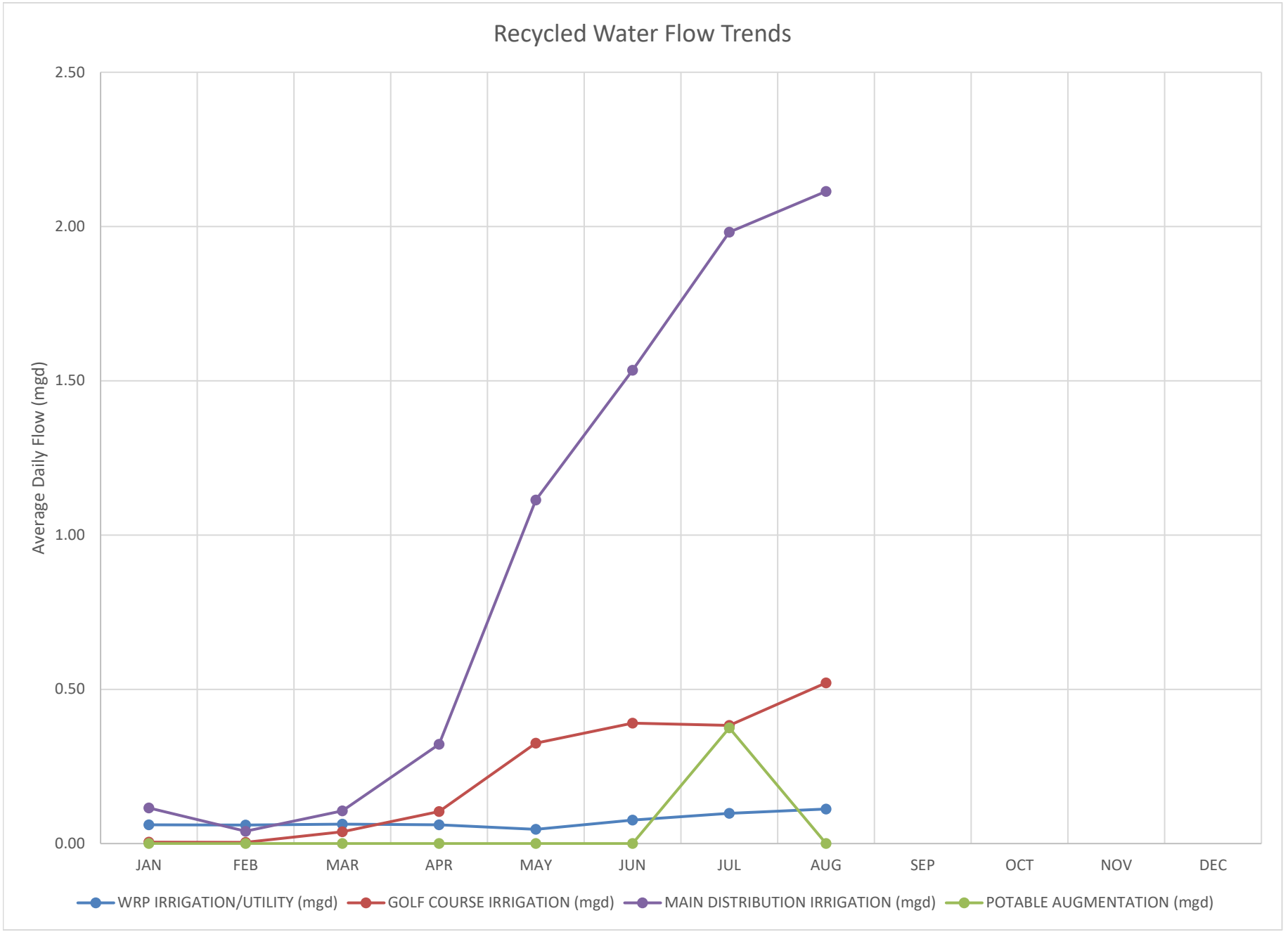
Quarterly Total Hrs- 19.5
Total Hrs Completed- 14.5

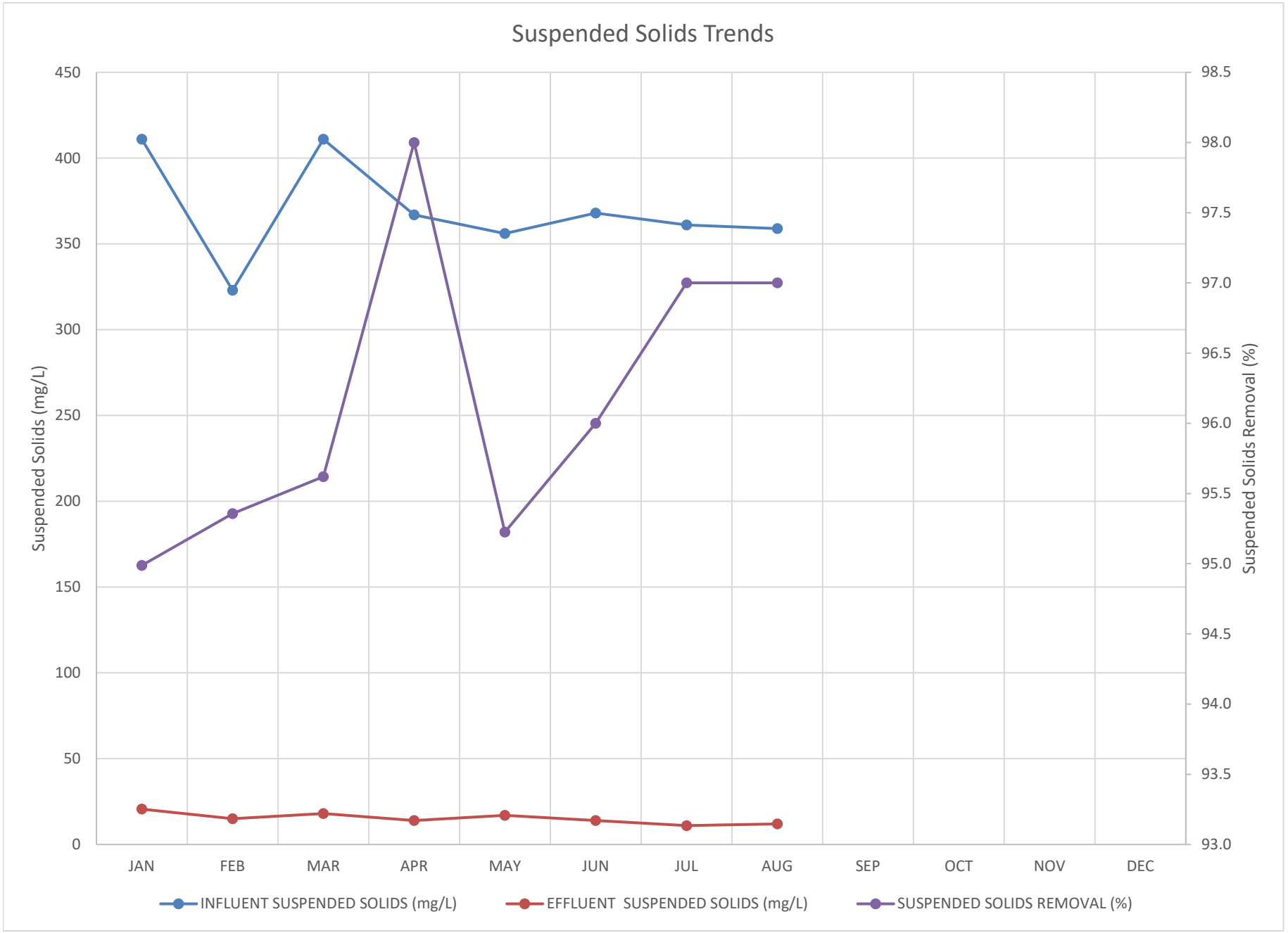
EL TORO WATER DISTRICT

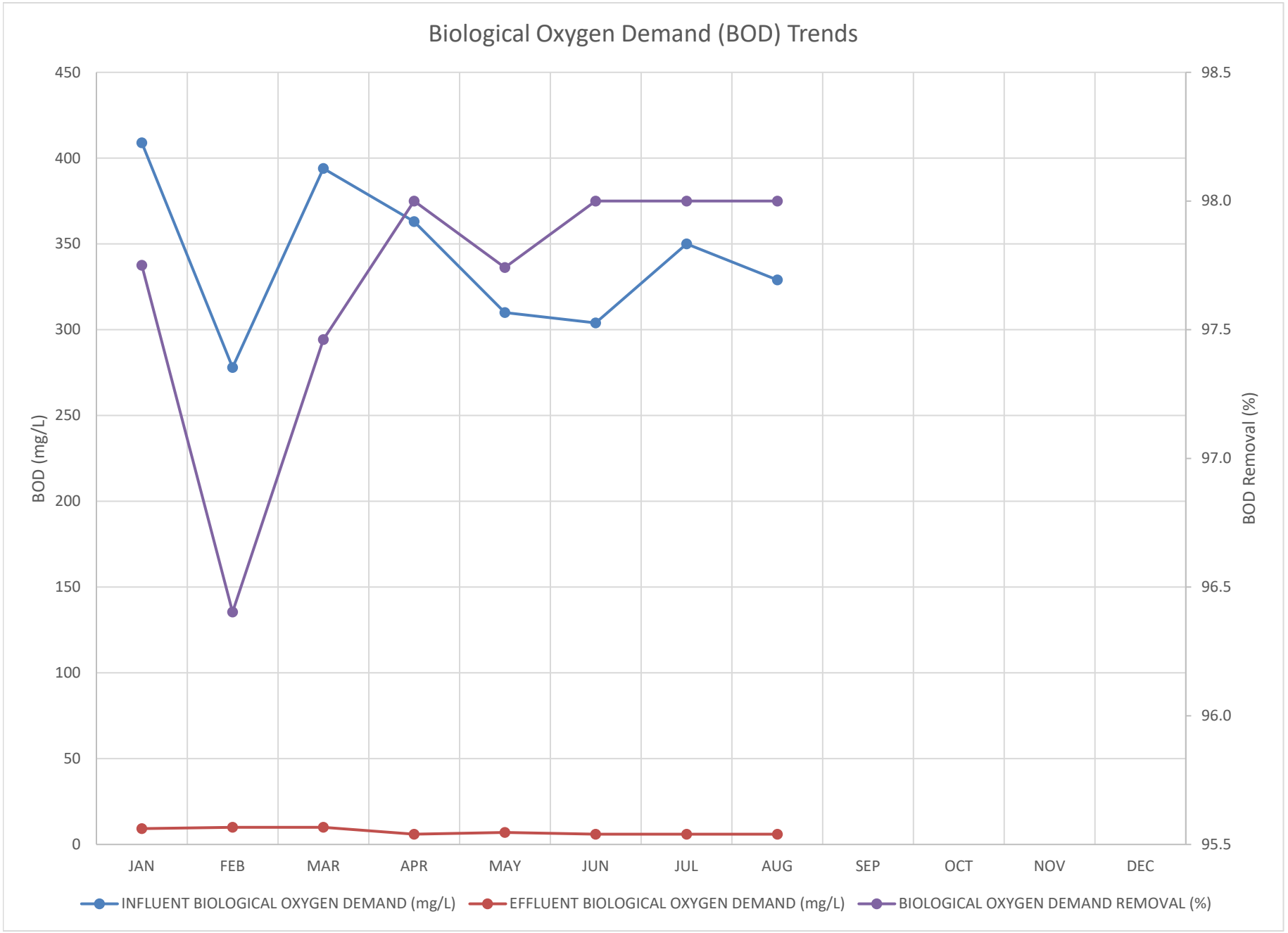
OPERATIONAL DATA FROM WATER RECYCLING PLANT

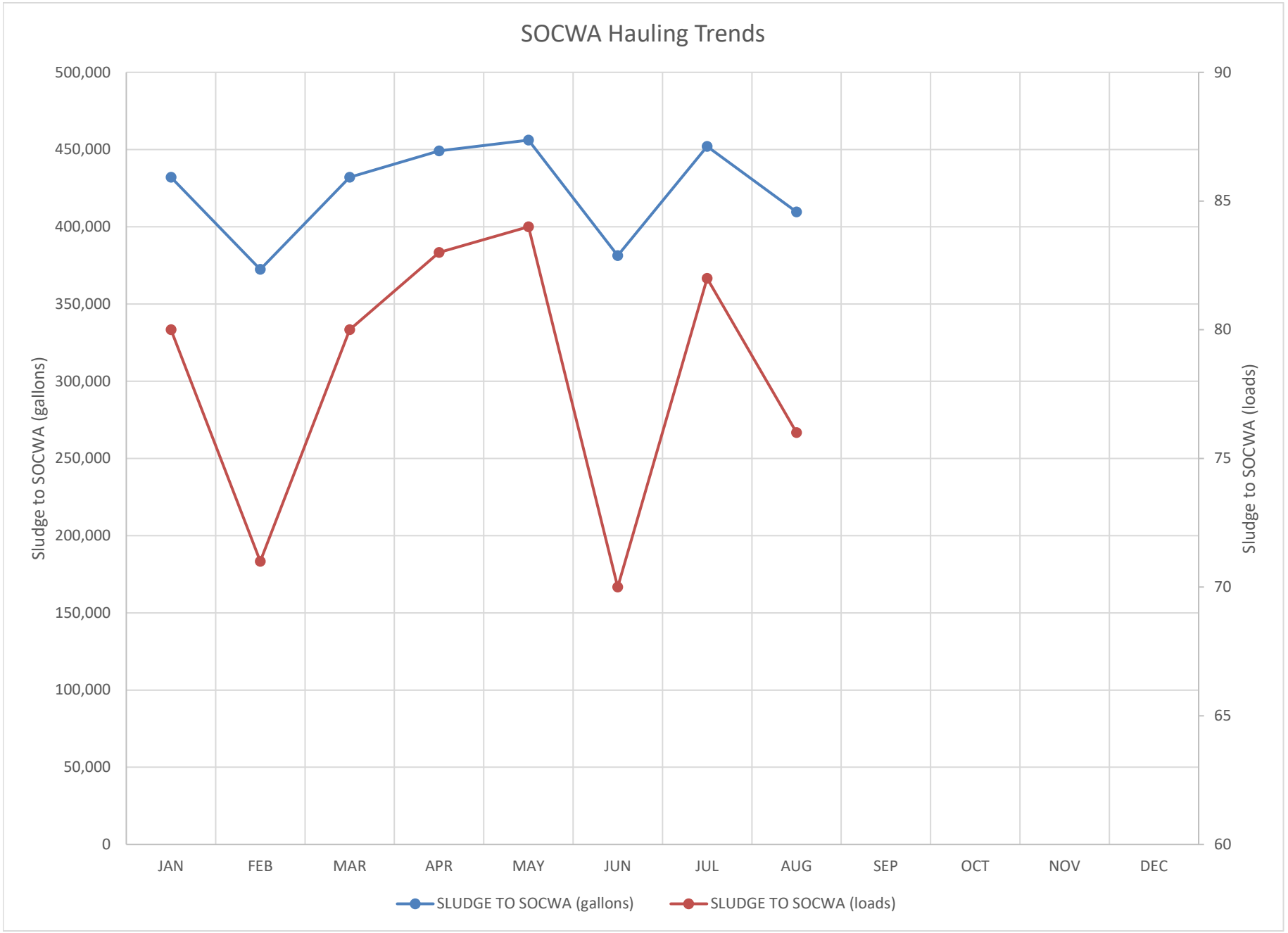
2024	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YTD Average
INFLUENT FLOW (mgd)	3.371	4.258	3.731	3.692	3.499	3.327	3.395	4.092					3.671
OCEAN OUTFALL (mgd)	3.384	4.458	3.657	3.327	2.062	1.397	1.024	0.750					2.507
WRP IRRIGATION/UTILITY (mgd)	0.061	0.060	0.063	0.061	0.046	0.076	0.098	0.112					0.072
GOLF COURSE IRRIGATION (mgd)	0.005	0.004	0.038	0.104	0.325	0.390	0.383	0.521					0.221
MAIN DISTRIBUTION IRRIGATION (mgd)	0.115	0.040	0.106	0.322	1.114	1.534	1.982	2.114					0.916
POTABLE AUGMENTATION (gallons)	0.000	0.000	0.000	0.000	0.000	0.000	375.000	0.000					46.875
POTABLE AUGMENTATION (mgd)	0.000	0.000	0.000	0.000	0.000	0.000	0.375	0.000					0.047
TOTAL RECYCLED WATER (mgd)	0.181	0.104	0.207	0.487	1.485	2.000	2.463	2.747					1.209
TOTAL EFFLUENT FLOW (mgd)	3.565	4.562	3.864	3.814	3.547	3.397	3.487	3.497					3.717
INFLUENT SUSPENDED SOLIDS (mg/L)	411	323	411	367	356	368	361	359					370
EFFLUENT SUSPENDED SOLIDS (mg/L)	21	15	18	14	17	14	11	12					15
SUSPENDED SOLIDS REMOVAL (%)	95	95	96	98	95	96	97	97					96
INFLUENT BIOLOGICAL OXYGEN DEMAND (mg/L)	409	278	394	363	310	304	350	329					342
EFFLUENT BIOLOGICAL OXYGEN DEMAND (mg/L)	9	10	10	6	7	6	6	6					8
BIOLOGICAL OXYGEN DEMAND REMOVAL (%)	98	96	97	98	98	98	98	98					98
SLUDGE TO SOCWA (gallons)	432,101	372,379	432,101	449,188	456,108	381,322	452,011	409,568					423,097
SOLIDS (dry lb/day)	4,541	5,058	5,436	5,371	5,289	4,905	5,184	4,910					5,087
TOTAL SOLIDS (%)	3.9	4.3	4.2	4.2	4.3	4.7	4.2	4.5					4.3
SLUDGE TO SOCWA (loads)	80	71	80	83	84	70	82	76					78
TRUCKED BY ETWD (loads)	80	71	80	44	84	70	67	76					72
TRUCKED BY OTHERS (loads)	0	0	0	39	0	0	15	0					7
TOTAL RAIN FALL (inches)	2.77	9.79	6.72	1.77	0.13	0.00	0.00	0.00					2.65

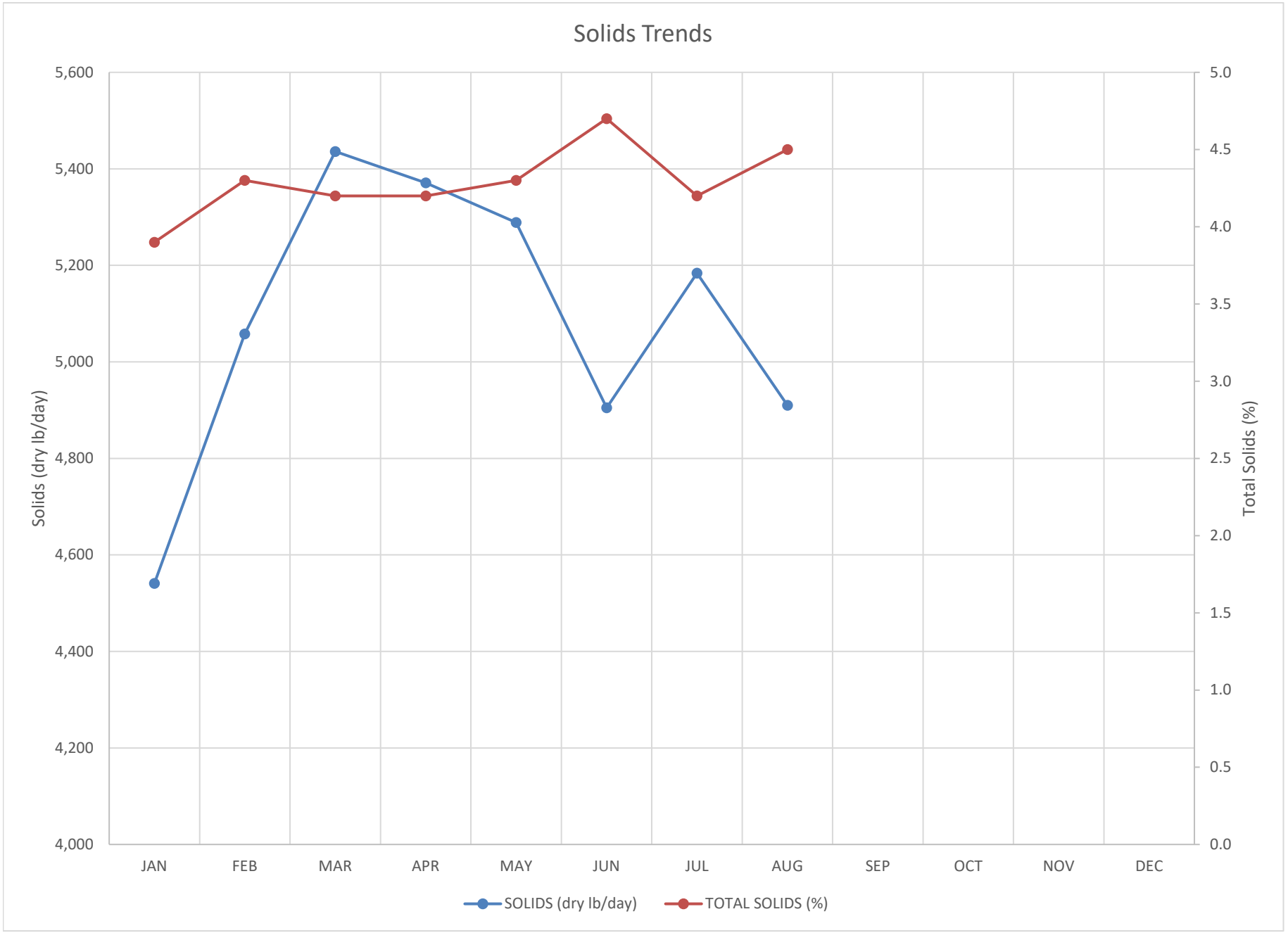

WRP Flow Trends
Average Daily Flow (mgd)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
INFLUENT FLOW (mgd)
OCEAN OUTFALL (mgd)
TOTAL RECYCLED WATER (mgd)
TOTAL EFFLUENT FLOW (mgd)


Recycled Water Flow Trends
Average Daily Flow (mgd)
2.50
2.00
1.50
1.00
0.50
0.00
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
WRP IRRIGATION/UTILITY (mgd)
GOLF COURSE IRRIGATION (mgd)
MAIN DISTRIBUTION IRRIGATION (mgd)
POTABLE AUGMENTATION (mgd)


Suspended Solids Trends
Suspended Solids (mg/L)
Suspended Solids Removal (%)
450
400
350
300
250
200
150
100
50
0
98.5
98.0
97.5
97.0
96.5
96.0
95.5
95.0
94.5
94.0
93.5
93.0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
INFLUENT SUSPENDED SOLIDS (mg/L)
EFFLUENT SUSPENDED SOLIDS (mg/L)
SUSPENDED SOLIDS REMOVAL (%)


Biological Oxygen Demand (BOD) Trends
BOD (mg/L)
BOD Removal (%)
450
400
350
300
250
200
150
100
50
0
98.5
98.0
97.5
97.0
96.5
96.0
95.5
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
INFLUENT BIOLOGICAL OXYGEN DEMAND (mg/L)
EFFLUENT BIOLOGICAL OXYGEN DEMAND (mg/L)
BIOLOGICAL OXYGEN DEMAND REMOVAL (%)


SOCWA Hauling Trends
500,000
450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
0
Sludge to SOCWA (gallons)
90
85
80
75
70
65
60
Sludge to SOCWA (loads)
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
SLUDGE TO SOCWA (gallons)
SLUDGE TO SOCWA (loads)


Solids Trends
5,600
5,400
5,200
5,000
4,800
4,600
4,400
4,200
4,000
Solids (dry lb/day)
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Total Solids (%)
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
SOLIDS (dry lb/day)
TOTAL SOLIDS (%)

WRP BATTERY STORAGE SYSTEM
MONTHLY REPORT

August 2024

Year 5

YEAR	BILLING PERIOD	BILL SAVINGS	NET SAVINGS	YEAR TOTAL
1	08/13/19 - 09/12/19	$ 5,529.24	$ 3,939.24	
	09/12/19 - 10/11/19	$ 2,556.42	$ 966.42	
	10/11/19 - 11/13/19	$ (471.94)	$ (2,061.94)	
	11/13/19 - 12/13/19	$ 168.96	$ (1,421.04)	
	12/13/19 - 01/14/20	$ (2,149.49)	$ (3,739.49)	
	01/14/20 - 02/12/20	$ 989.24	$ (600.76)	
	02/12/20 - 03/13/20	$ 397.27	$ (1,192.73)	
	03/13/20 - 04/13/20	$ (2,879.16)	$ (4,469.16)	
	04/13/20 - 05/13/20	$ 459.74	$ (1,130.26)	
	05/13/20 - 06/12/20	$ 3,613.71	$ 2,023.71	
	06/12/20 - 07/15/20	$ 5,171.20	$ 3,581.20	
	07/15/20 - 08/13/20	$ 5,783.19	$ 4,193.19	$ 88.38
2	08/13/20 - 09/14/20	$ 1,727.18	$ 137.18	
	09/14/20 - 10/14/20	$ 1,142.91	$ (447.09)	
	10/14/20 - 11/13/20	$ 993.16	$ (596.84)	
	11/13/20 - 12/15/21	$ 1,814.40	$ 224.40	
	12/15/20 - 01/14/21	$ 252.77	$ (1,337.23)	
	01/14/21 - 02/12/21	$ 2,598.74	$ 1,008.74	
	02/12/21 - 03/16/21	$ 2,545.66	$ 955.66	
	03/16/21 - 04/14/21	$ 442.16	$ (1,147.84)	
	04/14/21 - 05/13/21	$ 4,658.68	$ 3,068.68	
	05/13/21 - 06/14/21	$ 5,828.63	$ 4,238.63	
	06/14/21 - 07/14/21	$ 7,090.27	$ 5,500.27	
	07/14/21 - 08/12/21	$ 11,656.05	$ 10,066.05	$ 21,670.61
3	08/12/21 - 09/13/21	$ 3,251.24	$ 1,661.24	
	09/13/21 - 10/13/22	$ 4,854.74	$ 3,264.74	
	10/13/21 - 11/12/21	$ 1,835.55	$ 245.55	
	11/12/21 - 12/14/21	$ 1,953.12	$ 363.12	
	12/14/21 - 01/13/22	$ (624.65)	$ (2,214.65)	
	01/13/22 - 02/11/22	$ 40.42	$ (1,549.58)	
	02/11/22 - 03/15/22	$ 647.37	$ (942.63)	
	03/15/22 - 04/13/22	$ 2,556.61	$ 966.61	
	04/13/22 - 05/13/22	$ 92.84	$ (1,497.16)	
	05/13/22 - 06/14/22	$ 8,377.93	$ 6,787.93	
	06/14/22 - 07/14/22	$ 20,486.96	$ 18,896.96	
	07/14/22 - 08/12/22	$ 6,915.19	$ 5,325.19	$ 31,307.32

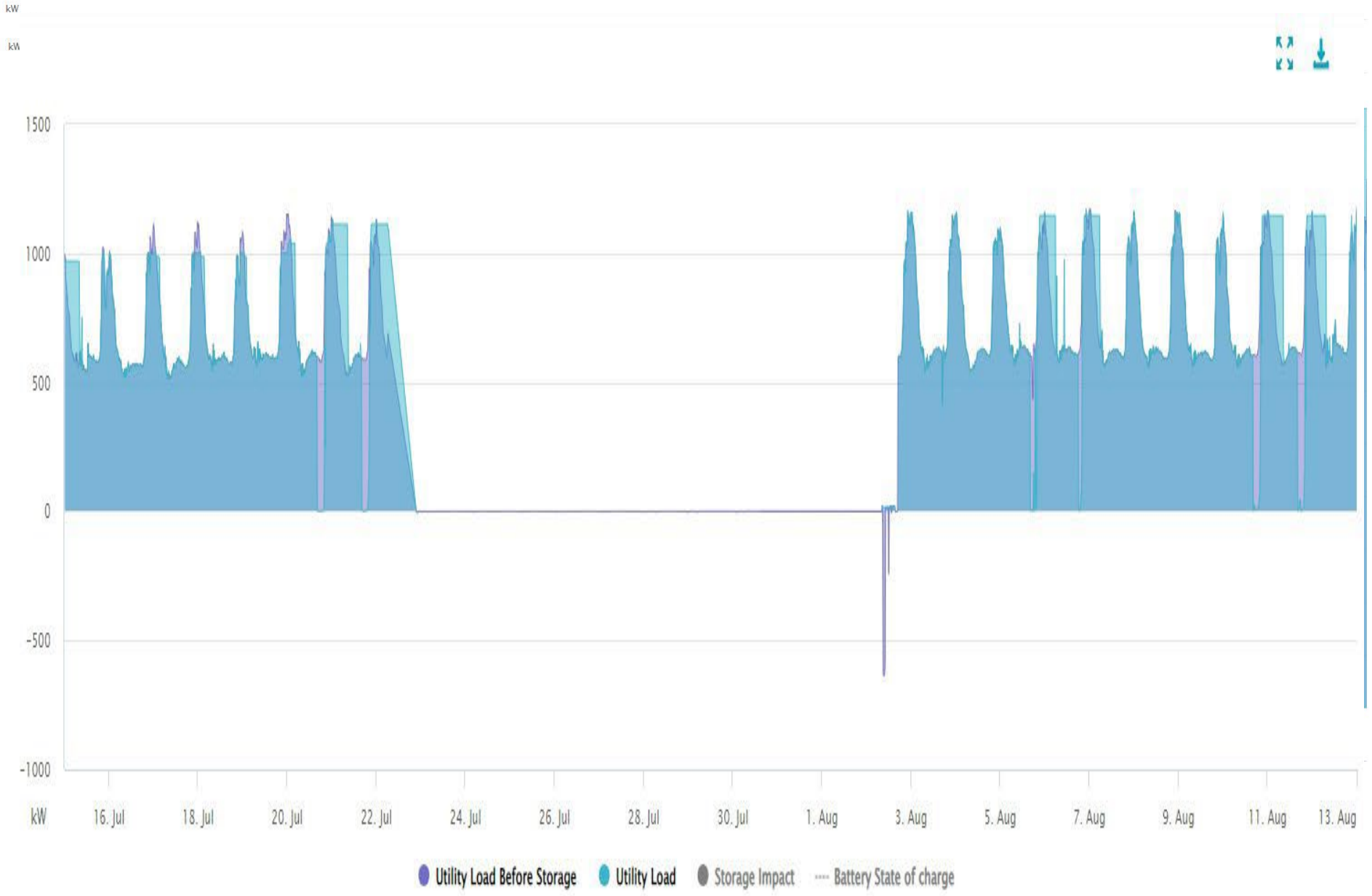
WRP BATTERY STORAGE SYSTEM
MONTHLY REPORT

August 2024

Year 5

YEAR	BILLING PERIOD	BILL SAVINGS	NET SAVINGS	YEAR TOTAL
4	08/12/22 - 09/13/22	$ 8,171.50	$ 6,581.50	
	09/13/22 - 10/13/22	$ 2,943.86	$ 1,353.86	
	10/13/22 - 11/14/22	$ 2,083.92	$ 493.92	
	11/14/22 - 12/14/22	$ 1,960.66	$ 370.66	
	12/14/22 - 01/12/23	$ (3,571.97)	$ (5,161.97)	
	01/12/23 - 02/11/23	$ 311.28	$ (1,278.72)	
	02/11/23 - 03/14/23	$ 2,755.08	$ 1,165.08	
	03/14/23 - 04/12/23	$ 1,994.90	$ 404.90	
	04/12/23 - 05/11/23	$ (558.88)	$ (2,148.88)	
	05/11/23 - 06/12/23	$ (487.47)	$ (2,077.47)	
	06/12/23 - 07/13/23	$ 21,318.66	$ 19,728.66	
	07/13/23 - 08/11/23	$ 3,262.26	$ 1,672.26	$ 21,103.80
5	08/11/23 - 09/12/23	$ 1,749.86	$ 159.86	
	09/12/23 - 10/11/23	$ 16,350.56	$ 14,760.56	
	10/11/23 - 11/09/23	$ 4,659.23	$ 3,069.23	
	11/09/23 - 12/12/23	$ 9,302.30	$ 7,712.30	
	12/12/23 - 01/11/24	$ 5,204.44	$ 3,614.44	
	01/11/24 - 02/12/24	$ (828.52)	$ (2,418.52)	
	02/14/24 - 03/13/24	$ (2,433.90)	$ (4,023.90)	
	03/13/24 - 04/12/24	$ 2,204.14	$ 614.14	
	04/12/24 - 05/13/24	$ (37.79)	$ (1,627.79)	
	05/13/24 - 6/12/2024	$ 6,939.57	$ 5,349.57	
	06/12/24 - 7/15/2024	$ 7,871.04	$ 6,281.04	
	07/16/24 - 8/13/2024	$ (308.78)	$ (1,898.78)	$ 31,592.15
	TOTAL	**$ 201,162.26**		**$ 105,762.26**

WRP BATTERY STORAGE SYSTEM
MONTHLY REPORT
07/15/24 - 8/13/2024



Sewerage Treatment Plant

23542 Moulton Pkwy, Laguna Woods, CA 92637

Savings Report - 2024-08 **Jul 15, 2024 - Aug 13, 2024**

SCE TOU 8 Option D (< 2kV)

Demand Charges	Before Storage		After Storage		Savings	
Facilities Related - Distribution	1,234kW	$24,104.54	1,258kW	$24,573.50	(24)kW	$(468.96)
Facilities Related - Transmission	1,234kW	$5,427.84	1,258kW	$5,533.44	(24)kW	$(105.60)
Time Related - Distribution - Summer On-Peak	1,069kW	$21,134.57	1,058kW	$20,924.57	11kW	$210.00
Time Related - Utility Retained Generation - Summer On-Peak	1,069kW	$22,983.98	1,058kW	$22,755.60	11kW	$228.38
Sub-total		$73,650.93		$73,787.11		$(136.18)

Energy Charges	Before Storage		After Storage		Savings	
Competition Transition Charge	501,034kWh	$(140.29)	506,526kWh	$(141.83)	(5,492)kWh	$1.54
Competition Transition Charge (URG Component)	501,034kWh	$140.29	506,526kWh	$141.83	(5,492)kWh	$(1.54)
Distribution - Summer Mid-Peak	27,328kWh	$373.30	17,380kWh	$237.41	9,948kWh	$135.89
Distribution - Summer Off-Peak	404,931kWh	$5,413.92	423,311kWh	$5,659.67	(18,381)kWh	$(245.75)
Distribution - Summer On-Peak	68,775kWh	$1,033.68	65,834kWh	$989.49	2,940kWh	$44.19
Fixed Recovery Charge	501,034kWh	$576.19	506,526kWh	$582.50	(5,492)kWh	$(6.32)
MCAM Charge	501,034kWh	$260.54	506,526kWh	$263.39	(5,492)kWh	$(2.86)
New System Generation Charge	501,034kWh	$3,667.57	506,526kWh	$3,707.77	(5,492)kWh	$(40.20)
Nuclear Decommissioning Charge	501,034kWh	$45.09	506,526kWh	$45.59	(5,492)kWh	$(0.49)
Public Purpose Programs Charge	501,034kWh	$8,868.30	506,526kWh	$8,965.51	(5,492)kWh	$(97.21)
PUC Reimbursement Fee	501,034kWh	$501.03	506,526kWh	$506.53	(5,492)kWh	$(5.49)
State Tax	501,034kWh	$150.31	506,526kWh	$151.96	(5,492)kWh	$(1.65)
Transmission	501,034kWh	$(20.04)	506,526kWh	$(20.26)	(5,492)kWh	$0.22
Utility Retained Generation - Summer Mid-Peak	27,328kWh	$2,954.46	17,380kWh	$1,878.97	9,948kWh	$1,075.49
Utility Retained Generation - Summer Off-Peak	404,931kWh	$29,657.12	423,311kWh	$31,003.33	(18,381)kWh	$(1,346.21)
Utility Retained Generation - Summer On-Peak	68,775kWh	$8,153.93	65,834kWh	$7,805.33	2,940kWh	$348.60
Wildfire Fund Non-Bypassable Charge	501,034kWh	$2,810.80	506,526kWh	$2,841.61	(5,492)kWh	$(30.81)
Sub-total		$64,446.20		$64,618.80		$(172.60)

Other Monthly Charges	Before Storage		After Storage		Savings	
Customer Charge		$434.84		$434.84		$ -
Sub-total		$434.84		$434.84		$ -

Total	Before Storage		After Storage		Savings	
		$138,531.98		$138,840.75		$(308.78)

Note: The above data is calculated by Genability using utility meter data. If there were any gaps in the utility data, they were filled with Stem meter data. Your actual utility bill may look different from the data displayed above due to either issues in the utility data we were provided or in the Stem meter data collected. Some discrepancies are normal and to be expected. For this reason, Stem completes a thorough review of all data and reconciles discrepancies by comparing the Genability calculations of the energy storage system cost savings and total bill values with your utility bills. Any discrepancies identified are adjusted for outstanding differences and reflected in your performance guarantee true up term statement.

STAFF REPORT

To: Board of Directors **Meeting Date: September 23, 2024**

From: Hannah Ford, Director of Engineering

Subject: Capital Project Status Report

I. Grit Chamber Rehabilitation

The District received the pre-purchased VFD from Aerzen (Figure 1), but the air conditioning unit was installed on the wrong side of the panel. Aerzen is working with the District to rectify the error in a timely manner. The contractor, Kingmen Construction, Inc. (Kingmen), awaits deliveries for mechanical components. In the meantime, Kingmen and its subconsultants have installed supporting electrical and the concrete pad for the District supplied Programmable Logic Controller (PLC), as shown in Figure 2.

Figure 1 – Grit Blower VFD

Figure 2 – Rebar Placement for PLC Pad

The District negotiated a $10,418.04 change order with Kingmen to accommodate additional unforeseen demolition, plug installation to seal the leaking outlet gate, and ground penetrating radar to enable anchorage placement that avoids existing rebar. District staff are negotiating a second change order less than $5,000 that will accommodate out-of-scope anchor bolt demolition and pipe identification and tagging.

Table 1 summarizes the cost and schedule as percent complete. Kingmen's billings reflect work through August 2024. Budget expenditure exceeds schedule completion because Kingmen is on track to complete the Project early (likely by December 2024).

Table 1 – Grit Chamber Rehabilitation Project Schedule and Budget Status

Construction Contract	Total	Earned to Date	Percent Complete
Budget	$825,318[1]	$648,326	79%
Schedule	April 11, 2024 – February 4, 2025		55%

[1]Includes Change Order No. 1 of $10,418.04.

II. New Warehouse

The general contractor Dumarc Corporation (Dumarc) re-commenced construction with site grading, rebar placement, shelving installation, and formwork, as shown in Figure 3 and Figure 4. This month, they will install the concrete and electrical equipment. Next month will wrap up electrical equipment testing and asphalt installation. The District is coordinating with SCE on the new service connection to the Warehouse to align with Dumarc's electrical installation.

Figure 3 – Interior Shelving Installation

Figure 4 – Exterior Formwork

District staff continues coordinating with the Air Quality Management District (AQMD) and their contractor in order for them to install a concrete pad, electrical duct bank, and equipment. AQMD completed their potholing last month, and staff continue to work with AQMD to finalize the construction access and lease agreements.

District staff continues to coordinate with Metropolitan Water District of Southern California (MWD) and its contractor, J. F. Shea Company on their work on site to rehabilitate the Allen-McColloch Pipeline. The majority of their work took place in early September and will continue through October. Following completion, the District will work with AQMD to complete their work then restore paving.

Table 2 shows that budget and schedule expenditure. Schedule exceeds budget because Dumarc's billings only reflect work through April 2024.

Table 2 – New Warehouse Project Schedule and Budget Status

Construction Contract	Total	Earned to Date	Percent Complete
Budget	$2,091,222[1]	$1,826,326	87%
Schedule	June 13, 2023 – October 31, 2024[2]		92%

[1]Includes Change Order Nos. 1, 2, 3, and 4 with a net credit of $92,777.83.
[2]Includes Change Order No. 4 time extension.

III. Lead and Copper Rule Revisions Compliance

District staff worked diligently to complete nearly all of the required field investigations, as shown in the Operations report. By the end of August, District staff completed nearly all of their assigned field surveys. District staff are working to complete the remaining 13 field surveys and submit results to Hazen and Sawyer (Hazen) for compilation. To date, no lead has been discovered. The District remains on track to comply with the October 16th regulatory deadline.

IV. Aliso Creek Lift Station Rehabilitation Project

The designer, Tetra Tech, submitted the 30% deliverable and conducted a meeting with District staff to review. Tetra Tech is now progressing toward 60% level of completion by mid-October, which will incorporate the results of the completed surveying and geotechnical efforts. District staff plan to leverage the 60% deliverable for FEMA Hazard Mitigation Grant Program (HMGP) funding.

V. Ocean Outfall Pump Station (OOPS) Motor Control Center (MCC) and Valve Rehabilitation Project

Originally installed in 1979, the MCC and Automatic Transfer Switch (ATS) that power OOPS have reached the end of their useful life (Figure 5 and Figure 6). Replacement parts are obsolete, and the existing MCC is not arc flash rated. The lead time for a new MCC is 280 days, so District staff recommend placing the order this month and hiring a contractor to install the new MCC upon its arrival around May 2025. Cost to purchase a new MCC from OneSource Distributors, LLC (OneSource) is approximately $33,252.62. The District will separately purchase the ATS from Western Switches and Controls, Inc. The ATS has a 12-week lead time, so staff plan to issue the purchase order in February 2025 to align with the MCC delivery. Based on conversations with electrical contractors, the MCC and ATS installation cost will be approximately $120,000.

In addition, the WRP Asset Management Plan flagged the need to replace the OOPS Pump 3 Outlet Isolation Valve and Surge Tank Valves due to age and corrosion that makes them difficult to close (Figure 4). District staff will self-install these valves upon receipt.

District staff budgeted $191,000 for this project in Fiscal Year (FY) 2024/2025. Table 3 summarizes projected expenditures, which anticipate a total $25,000 less than budget.

Table 3 –OOPS MCC and Valve Replacement Projected Budget

Item	Cost
New MCC	$33,252.62
New ATS	$14,531.00
MCC and ATS Installation	$120,000.00
Valve Replacement	$8,760.08
Contingency (10% of Installation)	$12,000.00
Total	**$176,543.70**
CIP Budget	**$191,000.00**
Difference	**$14,456.31**

Figure 5 – OOPS MCC

Figure 6 – OOPS Surge Tank Isolation Valve

VI. WRP Generator Radiator Replacement

Quinn Power conducted the repairs during the first half of September, as shown in Figure 7 and Figure 8. The WRP generator is anticipated to be back in service by September 20th.

Figure 7 – Inner Cooler Rehabilitation

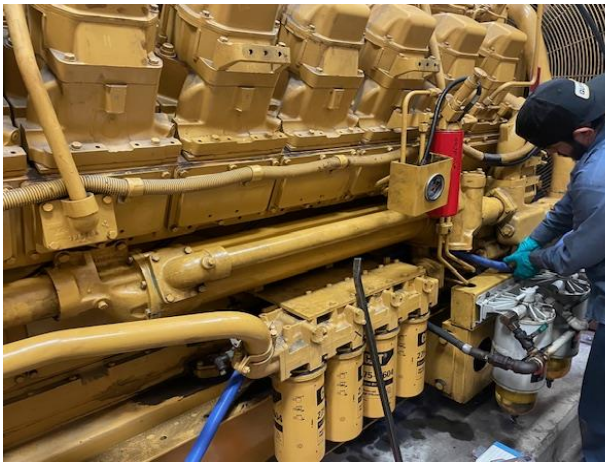


Figure 8 – Oil Cooler Rehabilitation

VII. Headworks and Secondary Clarifier No. 1 Rehabilitation Project

The District reviewed the 60% design submittal, and Carollo is now working toward 90% design. Carollo completed surveying, potholing, and geotechnical work on site.

District staff completed the polymer test and determined that inclusion of a polymer system did not result in significant savings. Since the District's contract with SOCWA for solids handling is based on dry ton of solids (not wet ton), increasing the total solids concentration with polymer will reduce the number of truck trips (i.e., fuel and labor) but not the District's disposal cost to SOCWA. The polymer pilot found that approximately 15 milligrams per liter (mg/L) of polymer was required to achieve an approximately 1-2 percent increase in total solids. Therefore, the cost to install a polymer system and dose polymer in concentrations high enough to achieve a 1-2 percent increase total solids does not result in a reasonable payback.

VIII. Tertiary Disinfection Optimization Project

The District work with Trussell Technologies, Inc. to respond to the Division of Drinking Water's (DDW's) comments on the revised proposal. Implementation of the low CT approach at the Tertiary Treatment Plant (TTP) is delayed until DDW approves the revised proposal approval. District staff are aiming for implementation by the second quarter of 2025.

IX. Asset Management Program

District staff finalized the WRP asset management plan and now are focused on integration with the Computerized Maintenance Management System (CMMS). District staff have narrowed software providers to a short list of four vendors and are working with Hazen to conduct a formal evaluation process including scripted demonstrations of each software for the use cases District staff would find most applicable. After evaluation, District staff will recommend implementation of CMMS at the WRP, where no CMMS is currently employed.

X. New Turbo Blower

District staff issued the purchase order for the new Turbo Blower in July. With a 7-month lead time, the blower will arrive onsite in January 2024. District placed the purchase order for the associated harmonic filter from OneSource to align its delivery with the new Turbo Blower. District staff will hire mechanical and electrical contractors for installation by the first quarter of next year.

XI. Additional Tertiary Filter Disks

District staff placed the purchase order for the additional filter disks at the end of July. Delivery is anticipated by the end of 2024, allowing installation to take place during the off-peak season.

XII. Freeway Electrical Equipment Replacement

District staff placed the purchase order for the new Main Switchboard (MSB), MCC, safety switch, and meter box at the end of August 2023. The MSB arrived at the end of August 2024 while the remaining components remain on track to arrive in April 2025. District staff will hire a contractor for installation in the second quarter of next year.

XIII. DAF No. 1 MCC Replacement

District staff placed the purchase order for the DAF No. 1 MCC in early August. With a 35-week lead time, District staff anticipates receipt in April 2025. District staff will hire a contractor for installation in the second quarter of next year.

XIV. Westline Lift Station Main Switchboard Replacement Project

District staff negotiated below $25,000 for the new Westline Lift Station MSB with the selected vendor and placed a purchase order in August. Equipment receipt is delayed until July 2025 at which time the District will hire a contractor for installation.

XV. System Wide Arc Flash and Coordination Study

District staff completed all necessary Southern California Edison (SCE) shutdowns and site investigations. SCE responded to the District's data request, and Hazen developed most of the arc flash calculations. The District is reviewing the draft reports summarizing findings. Upon completion of review, the District will install arc flash labels on equipment and make recommended protective device trip settings.

XVI. Caltrans I-5 Widening Utility Relocations

Phase C is nearly complete; the contractor, Paulus Engineering (Paulus), relocated the existing irrigation service lateral in mid-February. Paulus will install concrete pads around the relocated fire hydrants once the Caltrans contractor completes the surrounding curb, gutter, and sidewalk activities.

In mid-December, Caltrans discovered a conflict with the District's existing sewer manhole and a proposed curb-ramp due to the upcoming Village at Laguna Hills development. District staff and Caltrans amended the existing utility agreement to rectify this conflict. In mid-May, Paulus adjusted both manholes' shafts and cones to adhere to the proposed grades. Paulus remains on hold to replace the existing liner in one manhole until Caltrans places the surrounding sidewalk concrete.

XVII. Energy Efficiency Analysis

District staff continue to explore additional energy efficiency opportunities with SoCalREN and SW WISE to discuss potential energy efficiency opportunities. Potential opportunities include some water pump replacements, Headworks and Secondary Clarifier No. 1 Rehabilitation Project, and Aliso Creek Lift Station Rehabilitation. In fact, the District worked with SoCalREN to develop an application for the Department of Energy's Industrial Assessment Center Program that may result in up to $316,667 in savings related to the he waste activated cell (WAC) portion of the Headworks and Secondary Clarifier No. 1 Rehabilitation Project.

F.Y. 2024/25 CAPITAL IMPROVEMENT PROGRAM BUDGET ITEMS > $50,000
BOARD APPROVAL SCHEDULE

Category	Project Description	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	CIP Budget	Board Approved Cost
2024/25 Capital Projects															
	Regional Potable Reuse Implementation Plan	Pending grant award												$0	
	OOPS MCC and Valve Replacement Project			A								B	A / R	$191,000	
	Lead and Copper Rule Revision Service Line Inventories	E	E	E	E									$141,607	$138,607
2024/25 Capital Equipment															
	Cherry Booster Station Pump & Motor Replacement				A			R	C					$167,000	
	R-4 Reservoir Mixing System Replacement								E	E	A	C	C	$70,000	
	Westline Main Switchboard Replacement	O										A	R	$149,000	
	Westline Generator Unit 213 Replacement												A	$267,000	
	DAF No. 1 MCC Replacement	A								B	A / R	C	C	$149,000	$65,536
	Additional Tertiary Filter Disks	A					R	C						$92,000	$88,617
	WRP Unit 290 Radiator Replacement	A		R										$150,000	$144,388
	New Turbo Blower					B	B	A / R	C					$631,000	$279,834
	F-550 with Valve Maintenance Skid		A											$206,000	
	Documentum Replacement / Corporate Intranet Development					A	ET	ET	C	C				$61,000	
Previous Fiscal Year Carryover															
	P-3 Pump Station Rehabilitation	Pending grant award												$0	
	Moulton/El Toro Cathodic Protection Study	E	E									B	A	$145,000	
	Headworks and Secondary Clarifier Rehabilitation	E	E	E	E	E	E	E	B	A	C	C	C	$1,998,800	
	Grit Chamber Rehabilitation	C	C	C	C	C	C	C	C					$1,046,502	$1,015,760
	Aliso Creek Pump Station Rehabilitation Project	E	E / RFP	A	E	E	E	E	E	E	E	E	E	$600,000	$484,000
	Asset Management	ET	ET	ET	ET	ET	ET	ET	ET	A				$100,000	
	New Warehouse	C	C	C	C									$2,624,495	$2,091,222
	Freeway Electrical Equipment Replacement									B	A / R	C	C	$263,362	$155,646
	Tertiary Disinfection Optimization Project	E	E	E	E	E	E	E	E	A	C	C		$132,000	
	Caltrans I-5 Widening Utility Relocations	C	C											$0	$627,365
													Total	$8,852,159	$4,952,368

Key:

- Water
- Wastewater
- Recycled Water
- Split between All Departments
- Board Involvement

Abbreviations:

A = Approve by Board
B = Bid
BP = Board Presentation
C = Construction
E = Engineering/Study
ET = Evaluate
L = Legal
N = Negotiate
O = Order
P = Permit
RFP = Request for Proposal
R = Receive

EL TORO WATER DISTRICT
Glossary of Water Terms

Accumulated overdraft: The amount of water necessary to be replaced in the intake area of the groundwater basin to prevent the landward movement of ocean water into the fresh groundwater body.

Acre-foot, AF: A common water industry unit of measurement. An acre-foot is 325,851 gallons, or the amount of water needed to cover one acre with water one foot deep. An acre-foot serves annual needs of two typical California families.

ACWA: Association of California Water Agencies.
A statewide group based in Sacramento that actively lobbies State and Federal Government on water issues.

Advanced treatment: Additional treatment processes used to clean wastewater even further following primary and secondary treatment. Also known as tertiary treatment.

AFY: Acre-foot per year.

Alluvium: A stratified bed of sand, gravel, silt, and clay deposited by flowing water.

AMP: Allen McCulloch pipeline.

Major pipeline transporting treated water to water districts between Yorba Linda, where it starts to El Toro Water District reservoir, where it terminates.

Annexation: The inclusion of land within a government agency's jurisdiction.

Annual overdraft: The quantity by which the production of water from the groundwater supplies during the water year exceeds the natural replenishment of such groundwater supplies during the same water year.

Aqueduct: A man-made canal or pipeline used to transport water.

Aquifer: An underground geologic formation of rock, soil or sediment that is naturally saturated with water; an aquifer stores groundwater.

Arid: Dry; deserts are arid places. Semi-arid places are almost as dry as a desert.

Artesian: An aquifer in which the water is under sufficient pressure to cause it to rise above the bottom of the overlying confining bed, if the opportunity is provided.

Artificial recharge: The addition of surface water to a groundwater reservoir by human activity, such as putting surface water into recharge basins. (See also: groundwater recharge and recharge basin.)

AWWA American Water Works Association
Nationwide group of public and private water purveyors and related industrial suppliers.

Base flow: The portion of river surface flow which remains after deduction of storm flow and/or purchased imported water.

Bay-Delta: The Sacramento-San Joaquin Bay-Delta is a unique natural resource of local, state and national significance. The Delta Is home to more than 500,000 people; contains 500,000 acres of agriculture; provides habitat for 700 native plant and animal species; provides water for more than 25 million Californians and 3 million acres of agriculture; is traversed by energy, communications and transportation facilities vital to the economic health of California; and supports a $400 billion economy.

BIA: Building Industry Association.

Biofouling: The formation of bacterial film (biofilm) on fragile reverse osmosis membrane surfaces.

Biosolids: Solid organic matter recovered from a sewage treatment process and used especially as fertilizer.

BMP: Best Management Practice. An engineered structure or management activity, or combination of these, that eliminates or reduces adverse environmental effects.

Brackish water: A mixture of freshwater and saltwater.

Brown Act: Ralph M. Brown Act enacted by the State legislature governing all meetings of legislative bodies. Also know as the Open Meeting requirements.

Canal: A ditch used to move water from one location to another.

CASA: California Association of Sanitation Agencies The sanitation equivalent of ACWA concerned solely with issues affecting the treatment and disposal of solid waste and wastewater.

CEQA: California Environmental Quality Act.

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act. This federal law establishes the Superfund program for hazardous waste sites. It provides the legal basis for the United States EPA to regulate and clean up hazardous waste sites, and if appropriate, to seek financial compensation from entities responsible for the site.

CFS: Cubic feet per second.

Chloramines: A mixture of ammonia and chlorine used to purify water.

Clarify: To make clear or pure by separation and elimination of suspended solid material.

Coagulation: The clumping together of solids so they can more easily be settled out or filtered out of water. A chemical called aluminum sulfate (alum) is generally used to aid coagulation in water treatment and reclamation.

Coastkeepers: A non-profit organization dedicated to the protection and preservation of the marine habitats and watersheds of Orange County through programs of education, restoration, enforcement and advocacy.

Colored water: Groundwater extracted from the basin that is unsuitable for domestic use without treatment due to high color and odor exceeding drinking water standards.

Condensation: The process of water vapor (gas) changing into liquid water. An example of condensation can be seen in the tiny water droplets that form on the outside of a glass of iced tea as warmer air touches the cooler glass.

Confined aquifer: An aquifer that is bound above and below by dense layers of rock and contains water under pressure.

Conjunctive use: Storing imported water in a local aquifer, in conjunction with groundwater, for later retrieval and use.

Contaminate: To make unclean or impure by the addition of harmful substances.

CPCFA: California Pollution Control Financing Authority. State agency providing funds for wastewater reclamation projects.

Crisis:
1. **a:** The turning point for better or worse **b:** a paroxysmal attack of pain, distress, or disordered function **c:** an emotionally significant event or radical change of status in a person's life <a midlife *crisis*>
2. The decisive moment (as in a literary plot)
3. **a:** An unstable or crucial time or state of affairs in which a decisive change is impending; *especially* **:** one with the distinct possibility of a highly undesirable outcome <a financial *crisis*> **b:** a situation that has reached a critical phase

CTP Coastal Treatment Plant

CWPCA California Water Pollution Control Association. A 7000 member non-profit educational organization dedicated to water pollution control.

Dam: A barrier built across a river or stream to hold water.

Decompose: To separate into simpler compounds, substances or elements.

Deep percolation: The percolation of surface water through the ground beyond the lower limit of the root zone of plants into a groundwater aquifer.

Degraded water: Water within the groundwater basin that, in one characteristic or another, does not meet primary drinking water standards.

Delta: Where the rivers empty; an outlet from land to ocean, also where the rivers deposit sediment they carry forming landforms.

Delta Vision: Delta Vision is intended to identify a strategy for managing the Sacramento-San Joaquin Delta as a sustainable ecosystem that would continue to support environmental and economic functions that are critical to the people of California.

Demineralize: To reduce the concentrations of minerals from water by ion exchange, distillation, electro-dialysis, or reverse osmosis.

De-nitrification: The physical process of removing nitrate from water through reverse osmosis, microfiltration, or other means.

Desalting (or desalination): Removing salts from salt water by evaporation or distillation. Specific treatment processes, such as reverse osmosis or multi-stage flash distillation, to demineralize seawater or brackish (saline) waters for reuse. Also sometimes used in wastewater treatment to remove salts other pollutants.

Desilting: The physical process of removing suspended particles from water.

Dilute: To lessen the amount of a substance in water by adding more water.

Disinfection: Water treatment which destroys potentially harmful bacteria.

Drainage basin: The area of land from which water drains into a river, for example, the Sacramento River Basin, in which all land area drains into the Sacramento River. Also called catchment area, watershed, or river basin.

Drought: A prolonged period of below-average precipitation.

DPHS: California Department of Public Health Services. Regulates public water systems; oversees water recycling projects; permits water treatment devices; certifies drinking water treatment and distribution operators; supports and promotes water system security; provides support for small water systems and for improving technical, managerial, and financial (TMF) capacity; provides funding opportunities for water system improvements.

DVL: Diamond Valley Lake. Metropolitan's major reservoir near Hemet, in southwestern Riverside County.

DWR: California Department of Water Resources. Guides development/management of California's water resources; owns/operates State Water Project and other water facilities.

Endangered Species: A species of animal or plant threatened with extinction.

Endangered Species Act of 1973 (ESA): The most wide-ranging of the dozens of United States environmental laws passed in the 1970s. As stated in section 2 of the act, it was designed to protect critically imperiled species from extinction as a "consequence of economic growth and development untendered by adequate concern and conservation.

Ecosystem: Where living and non-living things interact (coexist) in order to survive.

Effluent: Wastewater or other liquid, partially or completely treated or in its natural state, flowing from a treatment plant.

Evaporation: The process that changes water (liquid) into water vapor (gas).

Estuary: Where fresh water meets salt water.

Evapotransporation: The quantity of water transpired (given off), retained in plant tissues, and evaporated from plant tissues and surrounding soil surface. Quantitatively, it is expressed in terms of depth of water per unit area during a specified period of time.

FCH Federal Clearing House – Environmental Review/Processing

FEMA Federal Emergency Management Agency

Filtration: The process of allowing water to pass through layers of a porous material such as sand, gravel or charcoal to trap solid particles. Filtration occurs in nature when rain water soaks into the ground and it passes through hundreds of feet of sand and gravel. This same natural process of filtration is duplicated in water and wastewater treatment plants, generally using sand and coal as the filter media.

Flocculation: A chemical process involving addition of a coagulant to assist in the removal of turbidity in water.

Forebay: A reservoir or pond situated at the intake of a pumping plant or power plant to stabilize water level; also, a portion of a groundwater basin where large quantities of surface water can recharge the basin through infiltration.

Gray water reuse: Reuse, generally without treatment, of domestic type wastewater for toilet flushing, garden irrigation and other non-potable uses. Excludes water from toilets, kitchen sinks, dishwashers, or water used for washing diapers.

Green Acres Project (GAP): A 7.5 million gallons per day (MGD) water reclamation project that serves tertiary treated recycled water to irrigation and industrial users in Costa Mesa, Fountain Valley, Huntington Beach, Newport Beach, and Santa Ana.

God Squad: A seven-member committee that is officially called the "Endangered Species Committee". Members consist of Secretary of the Interior, the Secretary of Agriculture, the Secretary of the Army, the Chairman of the Council of Economic Advisers, the Administrator of the National Oceanic and Atmospheric Administration and one individual from the affected state. The squad was established in 1978 by an amendment to the 1973 Endangered Species Act (ESA). It has only been called into action three times to deal with proposed federal agency actions that have been determined to cause "jeopardy" to any listed species. Such actions may receive an exemption from the ESA if five members of the committee determine that the action is of regional or national significance, that the benefits of the action clearly outweigh the benefits of conserving the species and that there are no reasonable and prudent alternatives to the action.

Groundwater: Water that has percolated into natural, underground aquifers; water in the ground, not water puddled on the ground.

Groundwater basin: A groundwater reservoir defined by the overlying land surface and the underlying aquifers that contain water stored in the reservoir. Boundaries of success-ively deeper aquifers may differ and make it difficult to define the limits of the basin.

Groundwater mining: The withdrawal of water from an aquifer in excess of recharge over a period of time. If continued, the underground supply would eventually be exhausted or the water table could drop below economically feasible pumping lifts.

Groundwater overdraft: The condition of a groundwater basin in which the amount of water withdrawn by pumping exceeds the amount of water that recharges the basin over a period of years during which water supply conditions approximate average.

Groundwater recharge: The action of increasing groundwater storage by natural conditions or by human activity. See also: Artificial recharge.

Ground Water Replenishment System (GWRS): A joint project of the Orange County Water District and the Orange County Sanitation District that will provide up to 100,000 acre-feet of reclaimed water annually. The high-quality water will be used to expand an existing underground seawater intrusion barrier and to replenish the groundwater basin underlying north and central Orange County.

Groundwater table: The upper surface of the zone of saturation (all pores of subsoil filled with water), except where the surface if formed by an impermeable body.

GPM: Gallons per minute.

Ground Water Replenishment System (GWRS): Orange County Water District's state-of-the-art, highly advanced, waste-water treatment facility.

Hydrologic balance: An accounting of all water inflow to, water outflow from, and changes in water storage within a hydrologic unit over a specified period.

Hydrologic cycle: The process of water constantly circulating from the ocean, to the atmosphere, to the earth in a form of precipitation, and finally returning to the ocean.

Imported water: Water that has originated from one hydrologic region and is transferred to another hydrologic region.

Inflatable rubber dams: Designed to replace temporary sand levees that wash out during heavy storm flow, the dams hold back high-volume river flows and divert the water into the off-river system for percolation.

Influent: Water or wastewater entering a treatment plant, or a particular stage of the treatment process.

Irrigation: Applying water to crops, lawns or other plants using pumps, pipes, hoses, sprinklers, etc.

JPIA Joint Powers Insurance Authority. A group of water agencies providing self-insurance to members of the ACWA.

LAIF Local Agency Investment Fund. Statewide pool of surplus public agency money managed by State Treasurer.

Leach: To remove components from the soil by the action of water trickling through.

MAF: Million acre feet.

MCL: Maximum contaminant level set by EPA for a regulated substance in drinking water. According to health agencies, the maximum amount of a substance that can be present in water that's safe to drink and which looks, tastes and smells good.

MET: Metropolitan Water District of Southern California.

MGD: Million gallons per day.

Microfiltration: A physical separation process where tiny, hollow filaments members separate particles from water.

Microorganism: An animal or plant of microscopic size.

MWD: Metropolitan Water District of Southern California.

MWDOC: Municipal Water District of Orange County. Intermediate wholesaler between MWD and 27 member agencies including ETWD.

Non-point source pollution: Pollution that is so general or covers such a wide area that no single, localized source of the pollution can be identified.

NPDES National Pollution Discharge Elimination System

OCBC: Orange County Business Council.

OCEMA Orange County Environmental Management Agency

OCWD: Orange County Water District.

Opportunity:
1. A favorable juncture of circumstances.
2. A good chance for advancement or progress .

Organism: Any individual form of life, such as a plant, animal or bacterium.

PCM Professional Community Management, Inc. Property Management company providing services to Laguna Woods Village and other homeowner associations.

Perched groundwater: Groundwater supported by a zone of material of low permeability located above an underlying main body of groundwater with which it is not hydrostatically connected.

Percolation: The downward movement of water through the soil or alluvium to the groundwater table.

Permeability: The capability of soil or other geologic formations to transmit water.

Point source: A specific site from which waste or polluted water is discharged into a water body, the source of which is identified. See also: non-point source.

Potable water: Suitable and safe for drinking.

PPB: Parts per billion.

Precipitation: Water from the atmosphere that falls to the ground as a liquid (rain) or a solid (snow, sleet, hail).

Primary treated water: First major treatment in a wastewater treatment facility, usually sedimentation but not biological oxidation.

Primary treatment: Removing solids and floating matter from wastewater using screening, skimming and sedimentation (settling by gravity).

Prior appropriation doctrine: Allocates water rights to the first party who diverts water from its natural source and applies the water to beneficial use. If at some point the first appropriator fails to use the water beneficially, another person may appropriate the water and gain rights to the water. The central principle is beneficial use, not land ownership.

Pumping Plant: A facility that lifts water up and over hills.

Recharge: The physical process where water naturally percolates or sinks into a groundwater basin.

Recharge basin: A surface facility, often a large pond, used to increase the infiltration of surface water into a groundwater basin.

Reclaimed wastewater: Wastewater that becomes suitable for a specific beneficial use as a result of treatment. See also: wastewater reclamation.

Reclamation project: A project where water is obtained from a sanitary district or system and which undergoes additional treatment for a variety of uses, including landscape irrigation, industrial uses, and groundwater recharge.

Recycling: A type of reuse, usually involving running a supply of water through a closed system again and again. Legislation in 1991 legally equates the term "recycled water" to reclaimed water.

Reservoir: A place where water is stored until it is needed. A reservoir can be an open lake or an enclosed storage tank.

Reverse osmosis: (RO) A method of removing salts or other ions from water by forcing water through a semi-permeable membrane.

RFP Request for Proposal

Riparian: Of or on the banks of a stream, river, or other body of water.

RO: Reverse osmosis. See the listing under "reverse osmosis."

R-O-W Right-of-way

Runoff: Liquid water that travels over the surface of the Earth, moving downward due to gravity. Runoff is one way in which water that falls as precipitation returns to the ocean.

RWQCB Regional Water Quality Control Board. State agency regulating discharge and use of recycled water.

Safe Drinking Water Act (SDWA): The Safe Drinking Water Act (SDWA) was originally passed by Congress in 1974 to protect public health by regulating the nation's public drinking water supply. The law was amended in 1986 and 1996 and requires many actions to protect drinking water and its sources: rivers, lakes, reservoirs, springs, and ground water wells. (SDWA does not regulate private wells which serve fewer than 25 individuals.) SDWA authorizes the United States Environmental Protection Agency (US EPA) to set national health-based standards for drinking water to protect against both naturally-occurring and man-made contaminants that may be found in drinking water. US EPA, states, and water systems work together to make sure that these standards are met.

Safe yield: The maximum quantity of water that can be withdrawn from a groundwater basin over a long period of time without developing a condition of overdraft, sometimes referred to as sustained yield.

SAFRA Santa Ana River Flood Protection Agency

Salinity: Generally, the concentration of mineral salts dissolved in water. Salinity may be measured by weight (total dissolved solids - TDS), electrical conductivity, or osmotic pressure. Where seawater is known to be the major source of salt, salinity is often used to refer to the concentration of chlorides in the water.

SAWPA: Santa Ana Watershed Project Authority.

SCADA Supervisory Control and Data Acquisition

SCAP Southern California Alliance of Publicly. Newly formed group of public agencies seeking reasonable regulation of sewer industry.

SCH State Clearing House – Environmental Review/Processing

Seasonal storage: A three-part program offered by Metropolitan Water District of Southern California:

> **STSS (Short Term Seasonal Storage)** financially encourages agencies with local groundwater production capabilities to produce a higher percentage of their demand in the summer from their local groundwater supplies, thus shifting a portion of their demand on the MWD system from the summer to winter;
>
> **LTSS (Long Term Seasonal Storage)** financially encourages retail agencies to take and store additional amounts of MWD water above their normal annual demands for later use; Replenishment Water provides less expensive interruptible water that is generally available and used to increase the operating yield of groundwater basins.

Seawater intrusion: The movement of salt water into a body of fresh water. It can occur in either surface water or groundwater basins.

Seawater barrier: A physical facility or method of operation designed to prevent the intrusion of salt water into a body of freshwater.

Secondary treatment: The biological portion of wastewater treatment which uses the activated sludge process to further clean wastewater after primary treatment. Generally, a level of treatment that produces 85 percent removal efficiencies for biological oxygen demand and suspended solids. Usually carried out through the use of trickling filters or by the activated sludge process.

Sedimentation: The settling of solids in a body of water using gravity.

Settle: To clarify water by causing impurities/solid material to sink to a container's bottom.

Sewer: The system of pipes that carries wastewater from homes and businesses to a treatment plant or reclamation plant. Sewers are separate from storm drains, which is a system of drains and pipes that carry rain water from urban streets back to the ocean. Overwatering your yard can also cause water to run into the streets and into storm drains. Storm drain water is not treated before it is discharged.

SigAlert: Any unplanned event that causes the closing of one lane of traffic for 30 minutes or more, as opposed to a planned event, like road construction, which is planned.

SJBA San Juan Basin Authority

Sludge: The solids that remain after wastewater treatment. This material is separated from the cleaned water, treated and composted into fertilizer. Also called biosolids.

SOCWA South Orange County Wastewater Authority. Regional Joint Powers Authority formed for collection and treatment of sewerage (previously known as AWMA/SERRA/SOCRA). SOCWA member agencies:

CSC – City of San Clemente

CSJC – City of San Juan Capistrano

CLB – City of Laguna Beach

ETWD – El Toro Water District

EBSD – Emerald Bay Service District

IRWD – Irvine Ranch Water District

MNWD – Moulton Niguel Water District

SCWD – South Coast Water District

SMWD – Santa Margarita Water District

TCWD – Trabuco Canyon Water District

SRF State Revolving Fund

Storm Drain: The system of pipes that carries rain water from urban streets back to the ocean. Overwatering your yard can also cause water to run into the streets and into storm drains. Storm drain

water is not treated before it is discharged. Storm drains are separate from sewers, which is a separate system of pipes to carry wastewater from homes and businesses to a treatment plant or reclamation plant for cleaning.

Storm flow: Surface flow originating from precipitation and run-off which has not percolated to an underground basin.

SWP: State Water Project. An aqueduct system that delivers water from northern California to central and southern California.

SWRCB State Water Resources Control Board

TDS: Total dissolved solids. A quantitative measure of the residual minerals dissolved in water that remain after evaporation of a solution. Usually expressed in milligrams per liter.

Tertiary treatment: The treatment of wastewater beyond the secondary or biological stage. Normally implies the removal of nutrients, such as phosphorous and nitrogen, and a high percentage of suspended solids.

THM: Trihalomethanes. Any of several synthetic organic compounds formed when chlorine or bromine combine with organic materials in water.

TMA: Too many acronyms.

TMDL: Total maximum daily load; A quantitative assessment of water quality problems, contributing sources, and load reductions or control actions needed to restore and protect bodies of water.

Transpiration: The process in which plant tissues give off water vapor to the atmosphere as an essential physiological process.

Turbidity: Thick or opaque with matter in suspension; muddy water.

Ultraviolet light disinfection: A disinfection method for water that has received either secondary or tertiary treatment used as an alternative to chlorination.

VE Value Engineering

VOC: Volatile organic compound; a chemical compound that evaporates readily at room temperature and contains carbon.

Wastewater: Water that has been previously used by a municipality, industry or agriculture and has suffered a loss of quality as a result.

Water Cycle: The continuous process of surface water (puddles, lakes, oceans) evaporating from the sun's heat to become water vapor (gas) in the atmosphere. Water condenses into clouds and then falls back to earth as rain or snow (precipitation). Some precipitation soaks into the ground (percolation) to replenish groundwater supplies in underground aquifers.

Water rights: A legally protected right to take possession of water occurring in a natural waterway and to divert that water for beneficial use.

Water-use Efficiency: The water requirements of a particular device, fixture, appliance, process, piece of equipment, or activity.

Water year (USGS): The period between October 1st of one calendar year to September 30th of the following calendar year.

Watermaster: A court appointed person(s) that has specific responsibilities to carry out court decisions pertaining to a river system or watershed.

Water Reclamation: The treatment of wastewater to make it suitable for a beneficial reuse, such as landscape irrigation. Also called water recycling.

Watershed: The total land area that from which water drains or flows to a river, stream, lake or other body of water.

Water table: The top level of water stored underground.

WEF Water Environment Federation. Formerly – Water Pollution Control Federation (WPCF). International trade group advising members of sewage treatment techniques and their effect on the environment.

Weir box: A device to measure/control surface water flows in streams or between ponds.

Wellhead treatment: Water quality treatment of water being produced at the well site.

Wetland: Any area in which the water table stands near, at, or above the land surface for a portion of the year. Wetlands are characterized by plants adapted to wet soil conditions.

Xeriscape: Landscaping that requires minimal water.