

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

October 23, 2023

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/84959376300> (Meeting ID: 849 5937 6300).

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 Havens

PLEDGE OF ALLEGIANCE – Director Adjarian

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 Gaskins

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 September 25, 2023 Finance and Insurance Committee meeting (Minutes included)

Recommended Action: The Board will be requested to approve the above Consent Calendar.

FINANCIAL INFORMATION ITEMS

3. Update on the Implementation of the Springbrook Software System (Reference Material Included)

Staff will provide an update on the status of the implementation of the Springbrook Software System

4. **Health Savings Account Contribution**

Staff will review and comment on the changes in the deductibles for the Consumer Driven Health Plan medical insurance options and the associated increase in the District contribution to the Health Savings Accounts.

FINANCIAL ACTION ITEMS

5. **Dental Insurance** (Reference Material Included)

Staff will review and comment on newly available options for Dental Insurance Plans.

Recommended Action: Staff recommends the Board authorize the General Manager to execute the ACWA JPIA Change Dental Plan Form modifying the District's Dental Plan to include an annual maximum benefit limit of \$3,000 with orthodontic care coverage for adults and children.

6. **Quarterly Insurance Report** (Reference Material Included)

Staff will review and comment on the Quarterly Insurance Report for the period July 1, 2023 through September 30, 2023.

Recommended Action: Staff recommends that the Board Receive and File the Quarterly Insurance Report for the period of July 1, 2023 through September 30, 2023.

7. **Financial Package - Authorization to Approve Payment of Bills for the Month Ending October 23, 2023 and Receive and File Financial Statements as of September 30, 2023** (Reference Material Included)

The Board will consider approving Bills for Consideration dated October 23, 2023 and Receive and File Financial Statements as of September 30, 2023.

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 October 23, 2023, and 2) receive and file the Financial Statements for the month ending September 30, 2023.

COMMENTS REGARDING NON-AGENDA FIC ITEMS

CLOSE FINANCE AND INSURANCE COMMITTEE MEETING

ENGINEERING COMMITTEE

CALL MEETING TO ORDER – Director Freshley

8. 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 September 25, 2023 Engineering Committee meeting. (Minutes Included).

Recommended Action: The Board will be requested to approve the subject minutes.

ENGINEERING ACTION ITEMS

9. Resolution No. 23-10-1 Direct Potable Reuse Strategic Plan Study Grant Application (Reference Material Included)

Staff will review and comment on Resolution No. 23-10-1 authorizing staff to accept grant funding for the Direct Potable Reuse Strategic Plan Study from the U.S. Bureau of Reclamation.

Recommended Action: Staff recommends that the Board of Directors adopt Resolution No. 23-10-1, authorizing the General Manager, or designee, to apply for, receive, enter into a cooperative agreement, and administer a grant for the Watersmart Planning and Project Design for Fiscal Year FY 2023 and FY 2024.

RESOLUTION NO. 23-10-1

RESOLUTION OF THE BOARD OF DIRECTORS
OF THE EL TORO WATER DISTRICT
AUTHORIZING THE GENERAL MANAGER, OR DESIGNEE,
TO APPLY FOR, RECEIVE, ENTER INTO A COOPERATIVE AGREEMENT,
AND ADMINISTER A GRANT FOR THE WATERSMART PLANNING AND
PROJECT DESIGN FOR FISCAL YEAR FY2023 AND FY 2024

10. Mathis Lift Station Inlet Piping Improvement Project

(Reference Material Included)

Staff will review and comment on the proposal to construct repairs to the inlet piping at the Mathis Lift Station.

Recommended Action: Staff recommends that the Board of Directors authorize the General Manager to issue a contract to Tunnel Works, Inc. in the amount of \$33,510 for construction of the Mathis Lift Station Inlet Piping Improvement Project. Staff also 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

11. Update on AB-1572 (Reference Material Included)

Staff will provide an update on AB-1572, recently signed by the Governor, which prohibits the irrigation of non-functional turf with potable water.

12. Making Conservation a California Way of Life Regulation

(Reference Material Included)

Staff will provide an update on the on-going rule making process for the proposed "Making Conservation a California Way of Life" regulation.

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

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

14. 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.

15. Engineering Items Discussed at Various Conferences and Meetings

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

COMMENTS REGARDING NON-AGENDA ENGINEERING COMMITTEE ITEMS

CLOSE ENGINEERING COMMITTEE MEETING

REGULAR SESSION

ATTORNEY REPORT

CLOSED SESSION

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

1. Pursuant to Government Code Section 54956.9(d)(1) to consult with legal counsel and staff regarding the following existing litigation: *Plaintiff, Marlene Jean v. Defendants, Dollar Tree Stores, Inc. et al.*, Superior Court of Los Angeles Case No. 19STCV25234.
2. Pursuant to Government Code Section 54957(b)(1) to conduct the General Manager's annual performance evaluation.

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.

Request for Disability-Related Modifications or Accommodations

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, Polly Welsch 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: Polly Welsch.

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

September 25, 2023

At approximately 7:30 a.m. President Havens called the regular meeting to order.

Director Freshley led in the Pledge of Allegiance to the flag.

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

Also participating were DENNIS P. CAFFERTY, General Manager, JUDY CIMORELL, Human Resources Manager, HANNAH FORD, Engineering Manager, GILBERT J. GRANITO, General Counsel, VISHAV SHARMA, CFO, SCOTT HOPKINS, Operations Superintendent, CAROL MOORE, Laguna Woods City Council member (Zoom), DREW BALLARD, Foster & Foster, Inc. (Zoom), and POLLY WELSCH, Recording Secretary.

Determination of a Quorum

Roll Call:

Director Monin	present
Director Gaskins	present
Director Freshley	present
President Havens	present

Four 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 Havens 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 Gaskins called the Finance and Insurance Committee meeting to order.

Consent Calendar

Director Gaskins asked for a Motion.

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

Roll Call Vote:

Director Monin	aye
Director Gaskins	aye
Director Freshley	aye
President Havens	aye

Financial Information Items

Other Post Employment Benefits (OPEB) Update

Mr. Sharma introduced Mr. Drew Ballard, an Actuary of Foster & Foster who provided an updated actuarial analysis of the Other Post Employment Benefits (OPEB) liability associated with the District's Retiree Healthcare Plan.

Mr. Ballard stated that every two years they do a full Actuarial Evaluation by collecting census data as of June 30, 2022. He further stated that the report is a GASB 75 report that will be used for the financial statements.

At approximately 8:00 a.m. Mr. Ballard left the meeting.

Update on the Implementation of the Springbrook Software System

Mr. Sharma stated that staff is working with ADP to move our time and attendance payroll system back to ADP in the next calendar year. He further stated that staff worked with Springbrook System's implementation team from August 29th to September 1st test data and work on various import export data files. Mr. Sharma explained that potential challenges that the District staff can face when we go live were also identified. Mr. Sharma noted that a second session of testing for the week of October 16th has been scheduled and that District staff will be attending more training with Springbrook in October to improve their understanding of the software.

Financial Action Items

Financial Package - Authorization to Approve Bills for Consideration Dated September 25, 2023 and Receive and File Financial Statements as of August 31, 2023

Director Gaskins asked for a Motion.

Motion: Director Monin made a Motion, seconded by President Havens to approve, ratify, and confirm payment of the bills set forth in the schedule of bills for consideration dated September 25, 2023, and receive and file the financial statements for the period ending August 31, 2023.

Roll Call Vote:

Director Monin	aye
Director Gaskins	aye
Director Freshley	aye
President Havens	aye

Comments Regarding Non-Agenda FIC Items

There were no comments.

Adjournment

There being no further business the Finance Committee meeting was closed at approximately 8:17 a.m.

Respectfully submitted

POLLY WELSCH
Recording Secretary

APPROVED:

KAY HAVENS, 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



STAFF REPORT

To: BOARD OF DIRECTORS

Meeting Date: October 23, 2023

From: Vishav Sharma, Chief Financial Officer

Subject: Springbrook Implementation – Progress Update

Presented below are the activities, challenges, and opportunities of the ongoing Springbrook implementation process:

- The District has successfully implemented Springbrook's General Ledger, Bank Reconciliation, Project Management, Accounts Payable, Payroll, Cash Receipting, Accounts Receivable and Human Resources modules. Staff is utilizing these modules on daily basis and getting better comfort level with the functionality of Springbrook.
- As discussed in the last month's meeting, Springbrook's time and attendance system is cumbersome and not user friendly. The testing of that module was not a success and the District is working with the ADP to move our time and attendance/payroll system back to ADP. We expect that transition to take place in the next quarter.
- Staff requires further report writing and data extraction training to better use Springbrook. The District is sending four staff members to a Springbrook convention in October. We will evaluate future training needs after the convention.
- The modules that still need to be implemented include Utility Billing, online credit card processing, and Fixed Assets.
- Springbrook utility billing module implementation is in progress. The District staff is currently working with Springbrook System's implementation team to test billing statements and various payment processing inputs. Last week we successfully tested the work flow of our meter reading equipment to the Springbrook. This week, we have encountered few programming errors during testing and we are working with the Springbrook programmers to apply those fixes. This will move the go live date of utility billing to January 8th.
- We are working with express bill pay as part of utility billing implementation so that the District can continue to take online, over the phone, debit and credit card payments. Springbrook has suggested to use Express BillPay service instead of Civic pay that they had suggested previously. We are working with Express BillPay service to bring down the cost of debit and credit card processing fee as well as the cost of module.

Springbrook Utility Billing Project Schedule as of 10/18/2023:

Week/Day	System	Description	Complete
October 16	Utility Billing	Updated Data Review	Scheduled
October 17-20	Utility Billing	Data Testing	Scheduled
October 30	Utility Billing	Data Testing	Scheduled
January 8. 2024	Utility Billing	Alternative date for go live	Scheduled



STAFF REPORT

To: Board of Directors

Meeting Date: October 23, 2023

From: Dennis Cafferty, General Manager

Subject: Health Savings Account Contribution

In July, 2021 the Board authorized the addition of two Consumer Driven Health Plan (CDHP) options, with associated Health Savings Accounts, to the health plan options offered by the District.

A Health Savings Account (HSA) is a special pre-tax savings account available to employees who are enrolled in a Consumer Driven Health Plan. Per the policy described in the Employee Handbook, the amount of funding the District will contribute to the Employee HSAs, at the beginning of the calendar year, will be determined annually during the District's budget process. The HSA funds can be used to pay the employee's deductible and other out-of-pocket medical expenses in the current year or in the future.

During the recent Open Enrollment meetings at which ACWA JPIA made a presentation regarding changes in the various health care plans, District staff became aware of recent increases to the calendar year deductibles for the Anthem and Kaiser CDHPs. The District's contribution to the Health Savings Accounts for participating employees previously matched the deductibles. The Health Savings Account contributions for the 2024 calendar year will be increased to match the current deductibles. The following table describes the minor changes.

	Kaiser CDHP		Anthem CDHP	
	Individual	Family	Individual	Family
Previous Deductible	\$1,500	\$3,000	\$1,500	\$3,000
New Deductible	\$1,600	\$3,200	\$1,600	\$3,200
Previous HSA Contribution	\$1,500	\$3,000	\$1,500	\$3,000
New HSA Contribution	\$1,600	\$3,200	\$1,600	\$3,200
HSA Contribution Change	\$100	\$200	\$100	\$200

The change in the HSA contribution is minor at \$100 for individuals and \$200 for families. At this point there are only four people enrolled in the CDHP options. The total annual cost impact is therefore less than \$1,000.



STAFF REPORT

To: Board of Directors

Meeting Date: October 23, 2023

From: Dennis Cafferty, General Manager

Subject: Dental Health Benefits

The District's current Dental plan is provided through ACWA JPIA by Delta Dental. The PPO Plan pays 100% for Diagnostic cleanings and x-rays, 80% for fillings, root canals and periodontics and 50% for crowns, implants and dentures. The annual maximum benefit is \$1,500 after which the employee is responsible for the full cost of further dental treatment or services for the remainder of the calendar year. The current plan provides no coverage for orthodontics. The District's annual cost for dental coverage for employees and directors is approximately \$59,000.

ACWA JPIA has recently expanded the plan options available to the District with two major changes:

- Annual Maximum Benefit Limit - The expanded options provide plans that include annual maximum benefit limits of \$2,000 and \$3,000 as opposed to the current annual maximum benefit of \$1,500.
- Orthodontia – Plans are now offered that include coverage for orthodontic care. Each of the plan options covers 50% of orthodontic care costs with a maximum lifetime benefit of \$2,000 per person. The orthodontic care costs do not count against the annual maximum benefit limit. Plan options can be selected that cover only dependent children or cover both adults and children.

The selected combination of these options drives the ultimate total cost to the District. The following table describes the currently available options and estimated total annual cost to the District. The District's current plan has the \$1,500 annual maximum benefit limit with no orthodontic care at a total annual cost of \$59,025.

Annual Maximum Benefit	\$1,500	\$2,000	\$3,000
No Orthodontic Care	\$59,025	\$80,577	\$85,065
Orthodontic Care for Child Only	\$65,845	\$86,614	\$92,707
Orthodontic Care for Child and Adult	\$68,157	\$90,887	\$95,763

The most significant cost impact derives from a switch from the \$1,500 annual maximum benefit limit to the \$2,000 limit. The further increase to a \$3,000 limit is much less impactful. The escalation of dental costs with inflation will make it increasingly difficult for employees to avoid reaching the annual maximum benefit amount. A change to the \$2,000 annual maximum benefit limit adds approximately \$21,500 to the District's total annual cost. A further change to the \$3,000 limit adds only an additional \$4,500 to the total annual cost. Staff recommends the \$3,000 annual maximum benefit limit.

The demographics of the District's workforce are shifting as older employees retire and younger employees join the District. Younger employees with growing families are more likely to require orthodontic care services. The cost to add orthodontic care to the dental plan is approximately \$6,000 - \$8,000 for dependent children only or \$9,000 - \$11,000 to cover both adults and dependent children.

The District has the opportunity to significantly improve the Dental benefit provided to ETWD employees at a manageable cost. This investment will continue to further the District's efforts to retain and recruit talented staff. The total additional annual cost to change the plan to the \$3,000 annual maximum benefit limit including orthodontic care for adults and children is approximately \$36,700.

Recommendation

Staff recommends the Board authorize the General Manager to execute the ACWA JPIA Change Dental Plan Form modifying the District's Dental Plan to include an annual maximum benefit limit of \$3,000 with orthodontic care coverage for adults and children.



Change Dental Plan Form – Non-Voluntary Plan

This form should be used if you wish to change your District's current JPIA dental plan and the new plan is a non-voluntary plan. Non-Voluntary Dental plans require 100% enrollment of eligible employees and dependents and have discounted rates. Please complete the following information.

Employer Information

Agency Name: _____

Billing Address: _____

Physical Address (if different than Billing Address):

County: _____

Contact:

Name/Title: _____

Phone Number: _____

Email Address: _____

Desired Effective Date: _____ (60 days lead time is required; longer if for January 1. Must be the first day of a month.)

Agency Profile

Total number of employees? _____

Total number of eligible employees? _____



All eligible employees (and their eligible dependents) in each of the following classes will be enrolled in the plan:

- ☐ Full time employees
- ☐ Part time employees scheduled to work _____ hours per week (ACWA JPIA minimum is 20/week)
- ☐ Board Members/Directors (if covered, must be treated the same as active employees for the purpose of benefits)

Indicate which waiting period your district will utilize for new hire dental enrollment:

- ☐ 1st of the month following date of hire
- ☐ 1st of the month following 30 days from hire
- ☐ 1st of the month following 60 days from hire
- ☐ Other: _____

Retirement Information

Do you offer retiree dental benefits? ☐ Yes ☐ No

Indicate the employer contribution for:

Retiree Dental _____% (minimum of 50%)

Retiree Dependents Dental _____%

How long do you provide retiree dental benefits?

☐ Lifetime ☐ Medicare Entitlement or _____Years

Do you provide Surviving Spouse benefits for spouses enrolled at the time of retiree death?

☐ Yes ☐ No

If yes, how long? _____

Are surviving children of retirees who were enrolled covered?

☐ Yes ☐ No

Note: The above should all be outlined in your district's written policies.



Select Plan:

You may only offer **one** PPO plan. You may offer the HMO plan stand-alone or alongside a PPO.

- ☐ DeltaCare USA HMO
- ☐ 5001: Max \$3,000/100/85/50 – No Orthodontia
- ☐ 5003: Max \$3,000/100/85/50/50 – Child Only Orthodontia
- ☐ 5004: Max \$3,000/100/85/50/50 – Adult & Child Orthodontia
- ☐ 1009: Max \$2,000/100/85/50 – No Orthodontia
- ☐ 1007: Max \$2,000/100/85/50/50 – Child Only Orthodontia
- ☐ 3007: Max \$2,000/100/85/50/50 – Adult & Child Orthodontia
- ☐ 1012: Max \$1,500/100/80/50 – No Orthodontia
- ☐ 1002: Max \$1,500/100/80/50/50 – Child Only Orthodontia
- ☐ 3002: Max \$1,500/100/80/50/50 – Adult & Child Orthodontia

The undersigned Member hereby applies for dental coverage through ACWA JPIA. It is understood that:

- A. Non-JPIA dental plans may not be offered alongside JPIA dental plans.
- B. The Member will cover all eligible employees and any eligible dependents specified under this agreement and pay 100% of the cost.
- C. All future employees (and any eligible dependents) will be covered upon eligibility to participate.
- D. Coverage will terminate for an employee on the last day of the month in which his employment terminates.
- E. Coverage will terminate for a dependent on the last day of the month in which their eligibility status terminates.
- F. This agreement will be in force per the terms of the contract.

Signature of General Manager

Date

Name (please print)

EL TORO WATER DISTRICT INSURANCE UPDATE

October 2023

Liability Program

There is nothing new to report this quarter.

Property Insurance

The Property Insurance has been renewed with JPIA effective July 1, 2023. The new premium is \$123,403 from \$102,570 last year.

Excess Public Employee Fidelity Program

The Excess Crime Program has been renewed with JPIA effective July 1, 2023. The new premium is \$1,914 from \$2,200 last year.

Cyber Security Insurance

The Cyber Security Insurance has been renewed with JPIA effective July 1, 2023. The new premium is \$8,768 from \$8,944 last year.

Underground Storage Tank Pollution Liability

The Underground Storage Tank Pollution Liability has been renewed with JPIA effective July 1, 2023. The new premium is \$2,504 from \$3,355 last year.

Dam Failure Liability

There is nothing new to report this quarter.

Fiduciary Liability Policy

The Fiduciary Liability Policy has been renewed with JPIA effective September 1, 2023. The new premium is \$11,596 from \$11,645 last year.

Liability & Property Claims

There was one property claim this quarter which JPIA settled in the amount of \$1,738.26. A resident was driving through the intersection of Moulton Parkway and Ridge Route and hit a loose manhole cover. The manhole cover was missing one of the locks causing the manhole to hit the outside of the wheel damaging the side of the tire. The car was not drivable and was towed for repair. A police report was taken.

Workers' Compensation Policy

The Workers' Compensation Policy renewed on July 1, 2023, and runs through June 30, 2024. The new modification rate for FY23/24 is 1.0.

Workers' Compensation Claims

There were no workers' compensation claims this quarter.

Medical Insurance

The District offers five medical plans as follows:

Kaiser Health - \$10 office co-pay with no annual deductibles.

Anthem Blue Cross – HMO; Offers a \$10 copay with no annual deductibles.

Anthem Blue Cross – PPO; this plan offers benefits within the physician network and outside of the network. In network, there is a co-pay of \$15.00 with an annual deductible of \$200 per person and \$600 per family. Out of the network, benefits are offered at 20% cost to the employee for all covered services with the same annual deductibles.

Kaiser Consumer Driven Health Plan along with an HSA – A high deductible tax advantaged health plan that provides for current medical and pharmacy expenses and allows saving for future health care expenses. \$1,500 individual / \$3,000 family deductible

Anthem Consumer Driven Health Plan along with a Health Savings Account - A high deductible tax advantaged plan that provides for current medical and pharmacy expenses and allows saving for future health care expenses. \$1,500 individual / \$3,000 family deductible.

The average cost per month per employee for the first quarter is \$1475.79.

Vision Insurance

VSP provides vision coverage to our employees, Directors and dependents. It provides an annual eye exam and discounted rates for frames, lenses and contacts.

The cost per month per employee for the first quarter is \$17.21.

Dental Insurance

The District provides dental coverage with Delta Dental. Our dental insurance pays up to \$1,500 for the upcoming year for covered services. All preventative services are offered every six months with the copay waived.

The average cost per month per employee for the first quarter is \$80.85.

Long and Short Term Disability Insurance

The District offers Long and Short Term Disability Program through Lincoln National Life Insurance Company. The Long Term Disability program provides a maximum monthly benefit of \$10,000. The Short Term Disability program provides a maximum weekly benefit of \$ 1,500.

Both Short and Long Term Disability Programs are paid by the District and provides disability payments up to $66 \frac{2}{3}$ of an employee's weekly or monthly salary if the claim is approved.

Average cost per month per employee for the first quarter is \$61.87.

Long Term Care Insurance

Long Term care is a program that provides a monthly benefit of \$2,500 to be applied to home health care or an assisted living facility.

Average cost per month per employee for the first quarter is \$10.15.

Life Insurance Coverage

The District offers Life Insurance coverage through Lincoln National Life Insurance Company at twice the employee's annual salary up to a maximum of \$300,000.

Lincoln National Life Insurance Company also provides life insurance coverage for the Directors.

Premium rates are based on the age and salary of insured employees. The premium is adjusted on the employee's birthday every fifth year.

The average cost per month per employee for the first quarter is \$51.97.

Employee Assistance Program (EAP) Coverage

UNUM is the District's carrier for the Employee Assistance Program. This program offers assistance in many areas such as childcare, eldercare, legal consultations, and health information, personal relationship issues, financial planning assistance, stress management, and career development. This benefit also comes with a \$5,000 portable term life insurance benefit.

The cost per month per employee for the first quarter is \$1.70.

An insurance report of Budget vs. Actual Costs for the fiscal year 2023/2024 is attached for the Board's review as well as a summary of currently held District insurance policies.

Submitted by:
Judy Cimorell

Budget vs. Actual - Q1 2023/2024
10/1/2023

	Actual Paid to Date			
Insurance Coverage				
Liability	\$179,027			
Property	\$123,403			
Fiduciary Liability	\$11,645			
Cyber Liability	\$8,768			
Dam Insurance (includes Excess)	\$46,360			
Less: SMWD - 50% R-6 Cost Share	(\$23,180)			
MNWD - 5% R-6 Cost Share	(\$2,318)			
Underground Storage Tank	\$2,504			
Excess Crime	\$1,914			
Total Insurance	\$348,123			
			Accumulative	
	Annual	Q1	Q1	Budget
Benefits - Directors	Budget	Budget	Actual	Remaining
Long Term Care	\$840	\$210	(\$2,670)	\$3,510
Medical Employer Paid	\$20,200	\$5,050	\$4,967	\$15,233
Health Savings Account	\$3,000	\$750	\$0	\$3,000
Dental	\$1,700	\$425	\$600	\$1,100
Vision	\$400	\$100	\$258	\$142
Life & LTD/STD	\$2,640	\$660	\$31	\$2,609
Total Benefits Directors	\$28,780	\$7,195	\$3,186	\$25,594
Retiree Benefits				
Medical Employer Paid	\$312,000	\$312,000	\$70,226	\$241,774
Total retiree benefits	\$312,000	\$312,000	\$70,226	\$241,774
Employee Benefits				
Emp.Assistance Program	\$1,230	\$1,230	\$317	\$913
Medical Employer Paid	\$1,118,735	\$1,118,735	\$265,643	\$853,092
Health Savings Account	\$1,500	\$1,500	\$0	\$1,500
Life/AD&D	\$36,432	\$36,432	\$9,354	\$27,078
Dental	\$58,612	\$58,612	\$14,555	\$44,057
Vision	\$12,883	\$12,883	\$3,046	\$9,837
LTD/STD	\$33,960	\$33,960	\$11,136	\$22,824
LTC Employer Paid	\$17,060	\$17,060	\$1,826	\$15,234

SUMMARY OF COVERAGE

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Type of Coverage	<u>GENERAL LIABILITY</u>	Coverage Term: 10/22-9/23
Coverage Includes	1. Commercial General Liability 2. Contractual Liability 3. Products/Completed Operations 4. Personal Injury	Premium - \$179,027
Coverage Limits	Insurance Carrier	Policy Number
	Pooled Self-insured	MOLC - 100110

Type of Coverage	<u>AUTO LIABILITY</u>	Coverage Term: 10/22-9/23
Coverage Includes	1. Owned Automobiles/Trucks 2. Non-owned Automobiles/Trucks 3. Hired Automobiles/Trucks	Premium - Included
Coverage Limits	Insurance Carrier	Policy Number
	Pooled Self-insured	MOLC - 100110

Type of Coverage	<u>PUBLIC OFFICIALS LIABILITY</u>	Coverage Term: 10/22-9/23
Coverage Includes	1. Errors & Omissions	Premium - Included
Coverage Limits	Insurance Carrier	Policy Number
	Pooled Self-insured	MOLC - 100110

Type of Coverage	<u>PROPERTY</u>	Coverage Term: 7/23 - 6/24
Coverage Includes	1. Basic Property Values- Building, Fixed Equipment, Personal Property 2. Mobile Equipment Value 3. Licensed Vehicle - Comprehensive & Collision - Private Passenger, Light Truck, Sport Utility, Other Vehicles	Premium - \$123,403
Automobile Physical Damage Comprehensive - 83 Vehicles Collision - 83 Vehicles		
Coverage Limits	Insurance Carrier	Policy Number
	Pooled Self-insured	MOLC - 100110

Type of Coverage	<u>EXCESS CRIME PROGRAM</u>	Coverage Term: 7/23 - 6/24
Coverage Includes	1. Public Employee Dishonesty 2. Forgery or Alteration 3. Computer Fraud 4. Faithful Performance of Duty 5. Treasurer/Tax Collector/Board Members (included)	Premium - \$1,914
Coverage Limits	Insurance Carrier	Policy Number
	Pooled Self-insured	MOLC - 100110

Type of Coverage	<u>UNDERGROUND STORAGE TANK POLLUTION LIABILITY</u>	Coverage Term: 7/23 - 06/24
Coverage Includes	1. Claims-Made 2. Environmental Incident	Premium - \$2504
Covers 1 Tank Located at: 23542 Moulton Parkway Laguna Woods, CA 92637		
Coverage Limits	Insurance Carrier	Policy Number
	Pooled Self-insured	MOLC - 100110

Type of Coverage	<u>DAM FAILURE LIABILITY</u>	Coverage Term: 10/22-10/23
Coverage (Includes Excess Ins. for El Toro Reservoir)	\$10,000,000.00	Premium - \$45,427
Covers:		
El Toro Reservoir	\$5,000,000.00	
Rossmoor Dam		
Coverage Limits	Insurance Carrier	Policy Number
		MOLC - 100110

Type of Coverage	<u>FIDUCIARY LIABILITY</u>	Coverage Term: 9/23-8/24
Coverage Includes	1. Executive Protection Policy	Premium - \$11,596
Parent Organization: ETWD Retirement Savings Plan & Trust Agreement		
Coverage Limits	Insurance Carrier	Policy Number
	Hudson Insurance Company	SFD31211603

Type of Coverage	<u>CYBER SECURITY</u>	Coverage Term: 7/23-6/24
First Year		Premium - \$8,768

Type of Coverage	<u>WORKERS' COMPENSATION</u>	Coverage Term: 7/23 - 6/24
Coverage Includes	1. Coverage A - Workers' Compensation 2. Coverage B - Employer's Liability	1st Quarter Premium \$36,824
Coverage Limits	Insurance Carrier	Policy Number
Coverage A		
\$0 - \$2 Million	Pooled Self-insured	MOLC - 100110
\$2 Million to Statutory		
Coverage Limits	Insurance Carrier	Policy Number
Coverage B		
\$0 - \$2 Million	Pooled Self-insured	MOLC - 100110
\$2 Million excess of \$2 Million SIR		

Type of Coverage	<u>LIFE & ACCIDENT</u>	1st Quarter Premium \$9,385
Coverage Includes	Coverage - 2 X Annual Income (Max. of \$300,000)	
Insurance Carrier	Lincoln National Life Insurance Co.	Policy # 10218807
Eligibility Period	2 Months After Hire	
Plan Wait or Deductible	60 Days	

Type of Coverage	<u>LONG / SHORT TERM DISABILITY</u>	1st Quarter Premium \$11,136
Coverage Includes	66 2/3 Insured Earnings Max. of \$10,000	
Insurance Carrier	Lincoln National Life Insurance Co.	Policy # 10218808
Eligibility Period	1 Year After Hire	
Plan Wait or Deductible	30 Days STD 90 Days or 9 Weeks LTD	

Type of Coverage	<u>LONG TERM CARE</u>	1st Quarter Premium \$1,826
Coverage Includes	\$2,500/Month \$150,000 Total Benefit	
Insurance Carrier	UNUM	Policy # 220384
Eligibility Period	1 Year After Hire	
Plan Wait or Deductible	365 Days	

Type of Coverage	<u>MEDICAL</u>	1st Quarter Premium \$340,836
Coverage Includes	HMO, PPO, HDP by Employee Choice	
Insurance Carrier	Anthem Blue Cross / Kaiser Insurance thru ACWA/JPIA	Policy #229CA
Eligibility Period	1 Month After Hire	
Plan Wait or Deductible	30 Days * Premium includes Employees, Retirees & Directors	

Type of Coverage	<u>DENTAL</u>	1st Quarter Premium \$15,155
Coverage Includes	\$25.00 or \$50.00/Family	
Insurance Carrier	Delta Dental Plan of California	Policy #399-1012
Eligibility Period	2 Months After Hire	
Plan Wait or Deductible	60 Days	

Type of Coverage	<u>VISION</u>	1st Quarter Premium \$3,304
Coverage Includes	Annual Exam/Frame Every 2 Years	
Insurance Carrier	Vision Service Plan thru ACWA	Policy #399-1012
Eligibility Period	2 Months After Hire	
Plan Wait or Deductible	60 Days	

Type of Coverage	<u>PERSONAL ACCIDENT INSURANCE</u>	1st Quarter Premium Employee Paid
Coverage Includes	\$50,000 or \$100,000	
Insurance Carrier	CIGNA	Policy # OKH-1253-56
Eligibility Period	Optional	
Plan Wait or Deductible	None	

Type of Coverage	<u>Supplemental Financial Insurance Program</u>	1st Quarter Premium Employee Paid
Coverage Includes	Voluntary - Life, Accident / Injury, Hospital, Critical Care, Short-term Disability, Dental	
Insurance Carrier	AFLAC	Policy # E3B26
Eligibility Period	Optional	
Plan Wait or Deductible	None	



STAFF REPORT

To: Board of Directors

Meeting Date: October 23, 2023

From: Vishav Sharma, Chief Financial Officer

Subject: September 2023 bills for Approval and Monthly Financial Report

Attached for Board approval is the payment summary report for the month of September, 2023 which presents checks that were paid during the month that exceeded \$50,000 in value. Also attached is the monthly financial report for September, 2023.

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

- The Statement of Net Position decreased in September compared to August as reductions in assets in September were greater than reductions in liabilities that also occurred during the month. Significant construction expenses and water purchase expenses were incurred in September and these activities affected the assets and liabilities of the District. Please note that this report contains preliminary numbers. The District is in the process of completing its annual audit and we will finalize beginning numbers once the audit process is fully complete.
- The Statement of Revenues, Expenses, and Changes in Net Position indicates the District currently has a year to date negative Change in Net Position of \$1,768,628 at the end of September.
- The Cash and Investments report shows a total of \$19,323,993 in Operating Cash (LAIF, CAMP, and Checking accounts) at the end of the month. Operating cash and investments are available to meet the operational needs of the District. The 2022 Bond Proceeds cash and investments equaled \$8,258,719. These are the funds available for certain capital projects.
- The total payment summary for the month of September 2023 is \$5,313,932.09. These disbursements include five checks greater than \$50,000, with the total equal to \$4,161,184.55. These expenses exceed the General Manager's purchase authority and Staff recommends the Board approve these checks. In addition, \$643,034.32 in payroll expenses occurred during the month of September. District employees were reimbursed \$6,633.64 for education, meals, and certification related expenses; and Directors were reimbursed \$141.44 in travel expenses.

Attachment 1

Cash Sheet for the Month ending September 30, 2023

EL TORO WATER DISTRICT
Payment Summary
For the month ending September 30, 2023

CHECK NUMBER	PAYMENT DATE	VENDOR NAME	PAYMENT AMOUNT
10033	09/13/2023	Layfield USA Corp	2,717,916.75
10099	09/21/2023	Layfield USA Corp	936,856.75
10036	09/13/2023	Southern California Edison Company	205,746.58
10046	09/15/2023	Don Peterson Contracting, Inc.	157,881.21
10079	09/21/2023	ACWA JPIA	142,783.26
TOTAL CHECKS OVER \$50,000			\$ 4,161,184.55
TOTAL CHECKS IN REGISTER			\$ 4,670,897.77

DEBIT TRANSFERS

09/08/2023	PAYROLL DIRECT DEPOSIT	176,286.09
09/08/2023	FEDERAL DEPOSIT LIABILITY	37,651.45
09/08/2023	SDI & STATE TAX	15,541.72
09/08/2023	WAGE GARNISHMENTS	190.00
09/08/2023	EMPOWER (401K)	67,135.60
09/08/2023	EMPOWER (457)	18,449.70
09/08/2023	HEALTH SAVINGS ACCOUNT	25.00
09/15/2023	PAYROLL BOARD OF DIRECTOR	4,534.76
09/15/2023	SS, MEDICARE, SDI & STATE TAX	1,476.62
09/15/2023	EMPOWER (457)	2,576.53
09/15/2023	HEALTH SAVINGS ACCOUNT	404.00
09/22/2023	PAYROLL DIRECT DEPOSIT	176,637.03
09/22/2023	FEDERAL DEPOSIT LIABILITY	37,664.38
09/22/2023	SDI & STATE TAX	15,532.16
09/22/2023	WAGE GARNISHMENTS	190.00
09/22/2023	EMPOWER (401K)	67,602.42
09/22/2023	EMPOWER (457)	19,041.57
09/22/2023	HEALTH SAVINGS ACCOUNT	25.00
09/30/2023	BANK FEES	2,070.29
TOTAL INTERBANK WIRES / DEBIT TRANSFERS		\$ 643,034.32

TOTAL DISBURSEMENTS \$ 5,313,932.09

REIMBURSEMENTS TO ETWD EMPLOYEES

CHECK NUMBER	PAYMENT DATE	PAYEE (DESCRIPTION)	PAYMENT AMOUNT
10077	09/15/2023	Vu Chu (Educational Reimbursement)	1,500.00
10047	09/15/2023	Edward Peterson (Travel Expenss)	566.96
10053	09/15/2023	Jake Knoke (Travel Expenss)	562.40
10058	09/15/2023	Mark Bastia (Travel Expenss)	498.04
10057	09/15/2023	Marcos Avalos (Travel Expenss)	477.59
10123	09/21/2023	William Wesson (Work Boots)	400.00
10065	09/15/2023	Ralph Palomares (Travel Expenss)	357.83
10040	09/15/2023	Cesar Cassani (Travel Expenss)	352.99
10043	09/15/2023	Daniel Orozco (Travel Expenss)	325.14
10027	09/07/2023	Jake Knoke (Exam Fee)	200.00
10076	09/15/2023	Vincent Coppola (Travel Expenss)	526.74
10066	09/15/2023	Robert Hazzard (Travel Expenss)	503.52
10042	09/15/2023	Daniel Lopez (Travel Expenss)	362.43
TOTAL CHECKS TO EMPLOYEES			\$ 6,633.64

REINBURSEMENTS TO ETWD DIRECTORS

CHECK NUMBER	PAYMENT DATE	PAYEE (DESCRIPTION)	PAYMENT AMOUNT
10055	09/15/2023	Kathryn Freshley (Travel Expense)	141.44
TOTAL CHECKS TO DIRECTORS			\$ 141.44

Attachment 2
Statement of Net Position for the September, 2023

El Toro Water District Interim Statement of Net Position for the Month of September, 2023				
	Interim 6/30/2023 Ending	8/31/2023 Interim	9/30/2023 Interim	Change
Assets				
Current Assets				
Cash & Cash Equivalents	4,250,844	12,071,278	10,693,044	(1,378,234)
Investments	26,743,954	15,708,953	15,659,771	(49,182)
Accounts Receivable	9,802,783	7,259,713	6,129,746	(1,129,967)
Materials & Supply Inventory	785,881	322,925	260,700	(62,225)
Prepaid Expenses	235,600	142,562	233,276	90,714
Restricted - Cash & Cash Equivalents	2,420,887	98,947	141,488	42,541
Current Assets - Sub-total	44,239,950	35,604,378	33,118,026	(2,486,352)
Non-Current Assets				
Lease Receivable	432,962	361,011	361,011	-
Land & Easements	7,451,585	7,451,585	7,451,585	-
Capacity Rights	342,382	342,382	342,382	-
Capital Assets				
Water System	36,794,034	37,781,450	37,781,450	-
Wastewater System	56,713,516	57,334,500	57,334,500	-
Recycled System	55,454,389	55,454,389	55,454,389	-
Combined Assets	14,911,834	15,919,853	15,919,853	-
Construction in Progress	24,106,643	24,771,821	26,830,235	2,058,414
Accumulated Depreciation	(92,415,985)	(93,342,001)	(93,697,517)	(355,516)
Non-Current Assets - Sub-total	103,791,360	106,074,989	107,777,888	1,702,898
Total Assets	148,031,310	141,679,367	140,895,913	(783,454)
Deferred Outflows of Resources				
OPEB Deferred Outflow of Resources	4,564,293	3,493,769	3,493,769	-
Liabilities				
Current Liabilities				
Accounts Payable & Accrued Expenses	6,298,588	961,419	2,949,220	1,987,802
Accrued Salaries & Related Payables	298,769	(142,805)	(45,964)	96,841
Customer Deposits	21,050	15,700	14,950	(750)
Accrued Interest Payable	1,166,671	542,084	726,250	184,166
Long Term Liabilities - Due in One Year				-
Compensated Absences	197,729	182,171	182,171	-
Loans Payable	1,557,454	281,180	1,846,288	1,565,108
Current Liabilities - Sub-total	9,540,261	1,839,749	5,672,915	3,833,166
Non-Current Liabilities				
Compensated Absences	1,314,487	1,431,791	1,431,791	-
Other Post-Employment Benefits Liability	20,031,265	11,050,192	11,050,192	-
Loans Payable	53,608,025	53,684,963	52,073,850	(1,611,113)
Non-Current Liabilities - Sub-total	74,953,777	66,166,945	64,555,832	(1,611,113)
Total Liabilities	84,494,038	68,006,694	70,228,747	2,222,053
Deferred Inflows of Resources				
Deferred Amounts from Leases	636,695	583,336	583,336	-
Deferred Amounts from OPEB	953,259	9,124,468	9,124,468	-
Total Deferred Inflows of Resources	1,589,954	9,707,804	9,707,804	-
Net Position				
Net Investment in Capital Assets	48,336,029	52,108,847	53,857,750	1,748,903
Restricted - Capital Projects	2,895	2,895	2,895	-
Restricted - Debt Service	18,806,777	8,228,052	8,228,052	0
Unrestricted	(923,942)	7,118,845	2,364,434	(4,754,411)
Total Net Position	66,221,759	67,458,638	64,453,131	(3,005,507)

Attachment 3

Statement of Revenues, Expenses, and Changes in Net Position
for September, 2023

Statement of Revenues, Expenses, and Changes in Net Position for the Month of September, 2023

	District		Water System		Wastewater System		Recycled System		Capital Improvements	
	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
Operating Revenues										
Commodity Supply Charges	\$ 11,989,100	\$ 3,250,557	\$ 10,027,100	\$ 2,661,529	\$ -	\$ -	\$ 1,962,000	\$ 589,028	\$ -	\$ -
Service Provision Charges	14,490,200	3,469,043	4,691,400	1,129,970	9,350,200	2,235,756	448,600	103,318	-	-
Capital Facilities Charge	4,093,900	902,990	-	-	-	-	-	-	4,093,900	902,990
Charges for Services	125,000	600	125,000	600	-	-	-	-	-	-
Miscellaneous Operating Income	42,100	22,235	31,000	8,843	10,100	13,393	1,000	-	-	-
Grants, Rebates, Reimbursements	4,101,300	1,267,343	-	3,122	5,300	4,059	96,000	58,334	4,000,000	1,201,828
Total Operating Revenues	34,841,600	8,912,768	14,874,500	3,804,063	9,365,600	2,253,208	2,507,600	750,680	8,093,900	2,104,817
Operating Expenses										
General & Administrative	5,262,060	1,025,090	2,110,500	427,596	2,729,480	515,043	422,080	82,452	-	-
Operations & Maintenance	21,461,900	5,380,890	12,797,500	3,385,540	7,209,100	1,613,597	1,455,300	381,754	-	-
Operating Capital Expenses	1,068,150	3,442,921	-	-	-	-	-	-	1,068,150	3,442,921
Other Operating Expenses	300,000	72,664	120,000	29,066	156,000	37,785	24,000	5,813	-	-
Depreciation & Amortization	4,906,900	1,046,010	-	-	-	-	-	-	4,906,900	1,046,010
Total Operating Expenses	32,999,010	10,967,576	15,028,000	3,842,201	10,094,580	2,166,425	1,901,380	470,019	5,975,050	4,488,931
Operating Income/(Loss)	1,842,590	(2,054,808)	(153,500)	(38,139)	(728,980)	86,783	606,220	280,661	2,118,850	(2,384,114)
Non-operating Revenues										
Property Taxes	1,155,000	285,837	460,000	114,337	600,000	148,637	95,000	22,863	-	-
Investment Earnings	250,000	305,057	100,000	65,779	130,000	81,194	20,000	10,668	-	147,416
Miscellaneous Revenue	249,400	74,026	238,000	74,026	10,400	-	1,000	-	-	-
Interest Expense	(1,928,200)	(425,514)	-	-	-	-	-	-	(1,928,200)	(425,514)
Net Non-Operating Revenues	(273,800)	239,405	798,000	254,141	740,400	229,831	116,000	33,531	(1,928,200)	(278,098)
Income/(Loss) before Contributions & Transfers	1,568,790	(1,815,403)	644,500	216,003	11,420	316,614	722,220	314,192	190,650	(2,662,212)
Transfers										
Transfers In	1,809,100	469,775	-	-	-	-	-	-	1,809,100	469,775
Transfers Out	(1,809,100)	(469,775)	(881,880)	(220,470)	-	-	(927,220)	(249,305)	-	-
Net Transfers	-	(0)	(881,880)	(220,470)	-	-	(927,220)	(249,305)	1,809,100	469,775
Capital Contributions										
Donations & Contributions	-	46,775	-	-	-	-	-	-	-	46,775
Total Capital Contributions	-	46,775	-	-	-	-	-	-	-	46,775
Change in Net Position	1,568,790	(1,768,628)	(237,380)	(4,467)	11,420	316,614	(205,000)	64,887	1,999,750	(2,145,662)
Beginning Net Position	66,221,759	66,221,759								
Ending Net Position	\$ 67,790,549	\$ 64,453,131								

Attachment 4

Summary of Revenues and Expenses for the September, 2023

Summary of Revenues and Expenses for the Month of September, 2023

Account - Description	Month Actual	YTD Actual	2023-2024 Budgeted	Budget Remaining	% of Budget Remaining
Summary of Total District Revenues					
District Totals					
Commodity Supply Charges	1,075,388	3,250,557	11,989,100	8,738,543	72.9%
Service Charges	1,218,439	3,469,043	14,490,200	11,021,157	76.1%
Capital Facility Charges	345,729	902,990	4,093,900	3,190,910	77.9%
Charges for Services	-	600	125,000	124,400	99.5%
Miscellaneous Revenue	23,118	96,261	301,600	205,339	68.1%
Grants, Rebates, Reimbursements	81,589	1,267,343	4,096,000	2,828,657	69.1%
Property Taxes	96,250	285,837	1,155,000	869,163	75.3%
Investment Income	99,200	305,057	250,000	(55,057)	-22.0%
Donations & Capital Contributions	1,545	46,775	-	(46,775)	N/A
Total Revenue	2,941,257	9,624,462	36,500,800	26,876,338	73.6%
Summary of Total District Expenses					
Salary Expenses					
Directors Fees	8,760	19,929	131,400	111,471	84.8%
Exempt Salaries	113,033	346,116	1,407,000	1,060,884	75.4%
Non-exempt Salaries	414,281	1,188,377	5,513,800	4,325,423	78.4%
Other Salary Payments	-	-	188,400	188,400	100.0%
Overtime	13,254	40,092	230,000	189,908	82.6%
Overtime - On-call	7,580	19,380	72,700	53,320	73.3%
Stipends/Allowances	4,680	15,140	74,800	59,660	79.8%
Employee Service Awards	-	950	5,000	4,050	81.0%
Salary Expenses Sub-total	561,587	1,629,984	7,623,100	5,993,116	78.6%
Benefit Expenses					
Medical Insurance	87,824	249,725	1,138,900	889,175	78.1%
HSA Contributions	-	262	4,500	4,238	94.2%
Dental Insurance	4,721	13,424	60,300	46,876	77.7%
Vision Insurance	1,033	2,922	13,100	10,178	77.7%
Life Insurance	3,686	10,482	36,600	26,118	71.4%
Disability Insurance	-	21	33,300	33,279	99.9%
Long-term Care Insurance	97	276	17,900	17,624	98.5%
Workers Compensation Insurance	11,055	31,689	129,100	97,411	75.5%
State Unemployment Insurance	-	-	3,060	3,060	100.0%
401k Retirement Contributions	49,407	144,132	622,600	478,468	76.9%
401k Matching Contributions	30,081	86,665	235,900	149,235	63.3%
457b Matching Contributions	8,591	26,245	235,900	209,655	88.9%
Medicare Insurance	7,639	22,307	104,800	82,493	78.7%
FICA	111	347	-	(347)	N/A
Benefit Expenses Sub-total	204,245	588,499	2,635,960	2,047,461	77.7%
Commodity Purchased for Resale					
Water Purchases - MWDOC	1,695,730	2,317,397	4,228,600	1,911,203	45.2%
Water Purchases - MWDOC Fixed	11,893	73,786	784,200	710,414	90.6%
Water Purchases - AMP/SAC	-	2,654	-	(2,654)	N/A
Regional Water Supply Expenses	449	1,346	8,000	6,654	83.2%
Water Purchases - Baker WTP	-	111,793	3,120,500	3,008,707	96.4%
Water Purchases - Baker O&M	2,610	(8,774)	830,500	839,274	101.1%
Water Purch - Other Agencies	-	323	-	(323)	N/A
MWDOC Service Connect Charge	-	128,481	125,000	(3,481)	-2.8%
Commodity Purchased for Resale Sub-total	1,710,681	2,627,006	9,096,800	6,469,794	71.1%

Summary of Revenues and Expenses for the Month of September, 2023

Account - Description	Month Actual	YTD Actual	2023-2024 Budgeted	Budget Remaining	% of Budget Remaining
Contracted/Purchased Services					
Consultants	840	2,468	61,500	59,033	96.0%
Engineering Services	7,280	7,280	48,000	40,720	84.8%
Audit & Accounting Services	17,500	17,500	45,600	28,100	61.6%
Technology Consultants	5,452	8,189	60,000	51,811	86.4%
SOCWA Contract	-	287,445	1,100,000	812,555	73.9%
Contractors	3,273	12,233	271,500	259,267	95.5%
Contracted Employees	6,129	13,890	-	(13,890)	N/A
Legal Svcs - General Counsel	8,148	12,920	90,000	77,080	85.6%
Legal Svcs - Specialty Counsel	-	-	25,000	25,000	100.0%
Other Legal Services	220	418	-	(418)	N/A
Employee Recruitmnt/Compliance	599	599	5,000	4,401	88.0%
Employee Health & Wellness	1,029	5,041	6,000	959	16.0%
Employee Relations Expenses	-	-	1,960	1,960	100.0%
Professional Services	-	-	-	-	N/A
Landscaping Services	4,487	10,376	150,000	139,624	93.1%
Janitorial Contracts	1,407	2,729	45,000	42,271	93.9%
Equipment Rental	1,443	2,438	15,000	12,562	83.7%
Uniform Rental	1,947	4,101	15,000	10,899	72.7%
Laboratory Services	2,445	4,095	31,800	27,705	87.1%
Disposal Services	8,028	18,289	59,000	40,711	69.0%
Security Services	1,196	24,925	29,500	4,575	15.5%
Insurance	11,596	25,929	378,000	352,071	93.1%
Financial Service Fees	2,849	10,595	55,000	44,405	80.7%
Printing & Reproduction	-	2,566	8,020	5,454	68.0%
Advertising & Publicity Svcs	-	335	8,100	7,765	95.9%
Postage	-	33	11,620	11,587	99.7%
Public Relations/Education	29,023	30,846	49,000	18,154	37.0%
Water Efficiency Services	2,541	2,541	100,000	97,459	97.5%
Licenses & Permits	2,201	9,076	200,500	191,424	95.5%
Software Maintenance/Licenses	4,218	17,092	240,900	223,808	92.9%
Electrical Power	410,562	576,821	1,786,000	1,209,179	67.7%
Natural Gas	76	145	4,500	4,355	96.8%
Cable Service	288	1,026	9,000	7,974	88.6%
Telecommunications	2,424	5,413	20,000	14,587	72.9%
Mobile Telecommunications	575	11,553	38,100	26,547	69.7%
Data Access	3,979	13,042	60,000	46,958	78.3%
Equipment Maintenance & Repair	1,967	18,403	139,000	120,597	86.8%
Pump Maintenance & Repair	-	336	142,000	141,664	99.8%
Motor Maintenance & Repair	-	-	91,000	91,000	100.0%
Electrical Maintenance/Repair	28,156	41,786	157,000	115,214	73.4%
Meter Maintenance & Repair	-	1,277	30,900	29,623	95.9%
Structure Maintenance & Repair	1,349	12,241	22,000	9,759	44.4%
Asphalt Maintenance & Repair	2,136	(14,494)	110,600	125,094	113.1%
Contracted/Purchased Services Sub-total	575,364	1,201,499	5,721,100	4,519,601	79.0%
Commodities					
Repair Parts & Materials	70,823	109,531	437,810	328,280	75.0%
Tools & Small Equipment	2,628	5,366	78,510	73,144	93.2%
Safety Equipment	570	821	25,010	24,189	96.7%
Employee Tools/Safety Equip	736	6,595	23,800	17,205	72.3%
Laboratory Tools & Small Equip	-	-	6,000	6,000	100.0%
Technology Tools/Small Equip	3,854	3,854	46,000	42,146	91.6%
Chemicals	69,459	121,688	322,000	200,312	62.2%
Gasoline & Oil	870	2,478	53,000	50,522	95.3%
Operating Supplies/Accessories	-	19,089	140,000	120,911	86.4%
Office Supplies & Accessories	1,211	9,726	34,760	25,034	72.0%
Technology Supplies/Components	3,025	3,147	21,170	18,023	85.1%
Meeting/Event Supplies & Food	-	7,032	36,000	28,968	80.5%
Water Use Efficiency Supplies	1,104	2,579	22,000	19,421	88.3%
Commodities Sub-total	154,279	291,907	1,246,060	954,153	76.6%

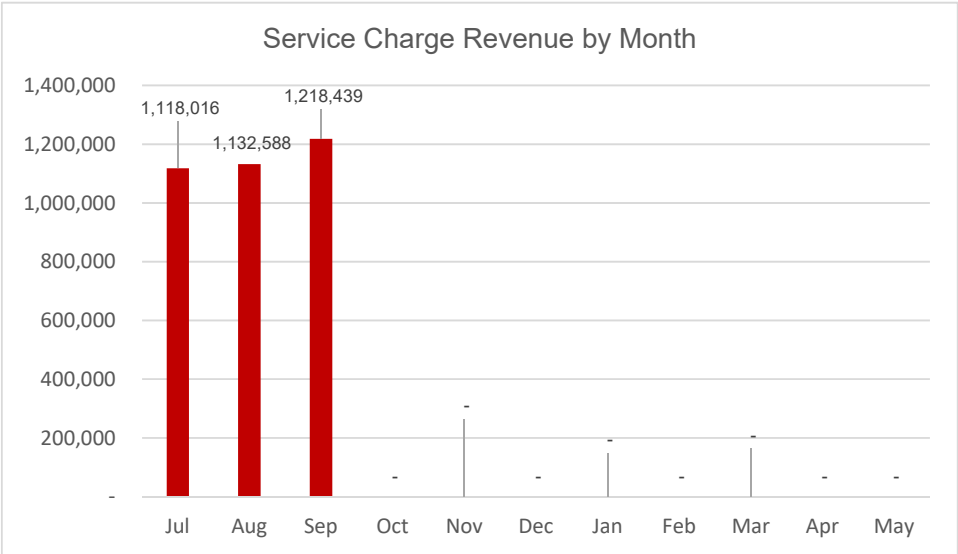
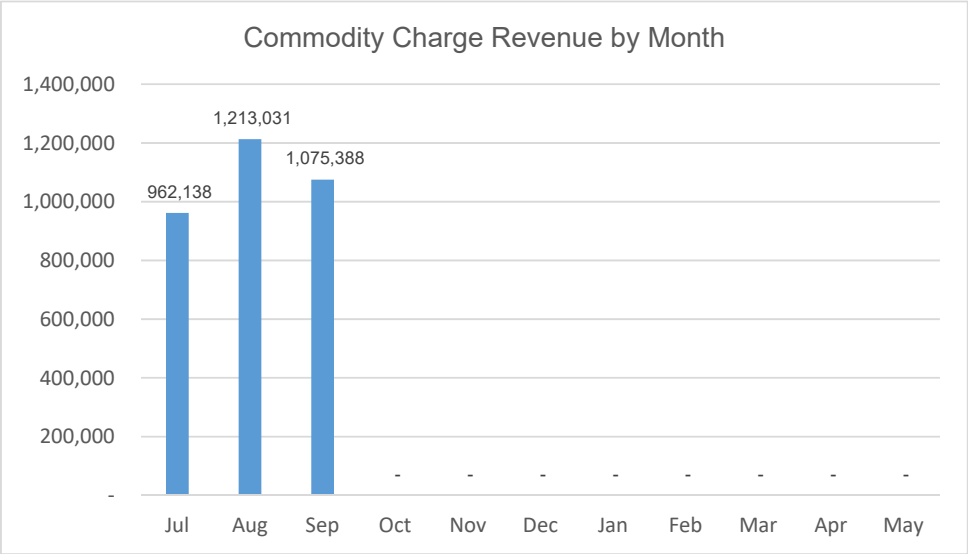
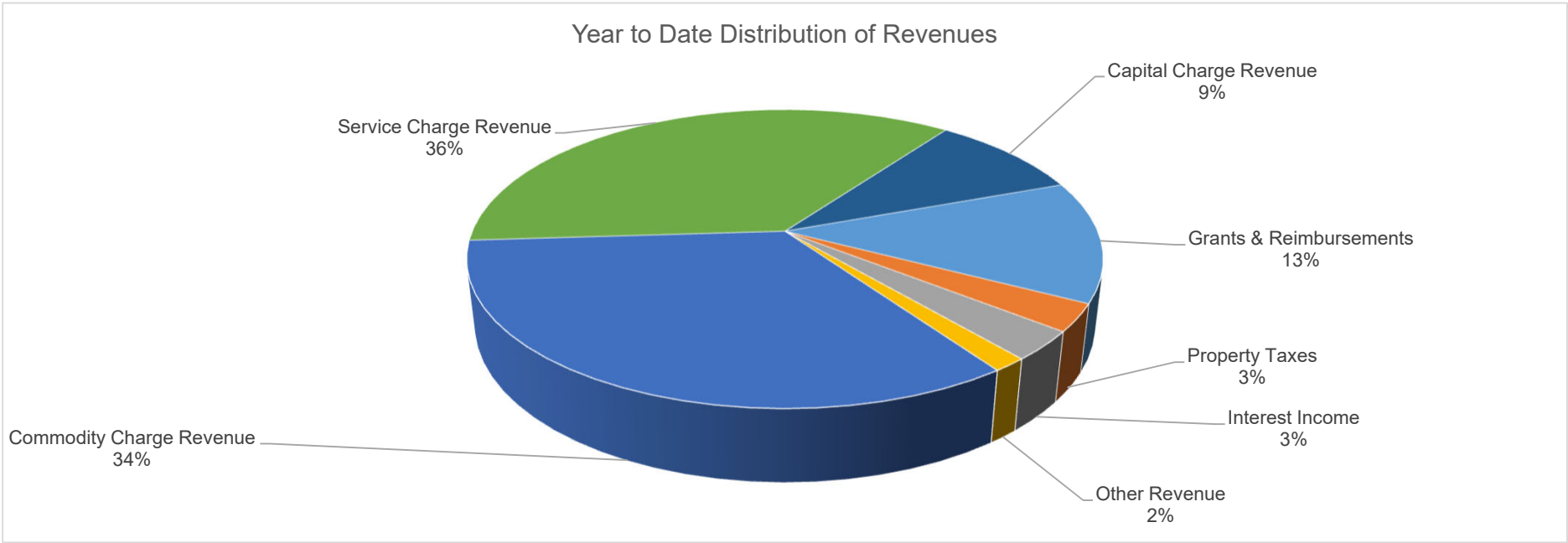
Summary of Revenues and Expenses for the Month of September, 2023

Account - Description	Month Actual	YTD Actual	2023-2024 Budgeted	Budget Remaining	% of Budget Remaining
Professional Development					
Education & Training	6,054	8,115	43,550	35,435	81.4%
Education/Training - Directors	-	-	-	-	N/A
Dues & Memberships	-	290	7,200	6,910	96.0%
Dues & Memberships - Directors	328	32,870	101,400	68,530	67.6%
Meetings & Conferences	-	-	-	-	N/A
Meetings/Conferences-Directors	4,918	4,978	36,700	31,722	86.4%
Travel Reimbursement	-	2,885	9,000	6,115	67.9%
Travel Reimbursement-Directors	3,210	7,295	38,750	31,455	81.2%
Publications & Subscriptions	1,430	935	35,000	34,065	97.3%
Professional Development Sub-total	15,940	57,368	271,600	214,232	78.9%
Miscellaneous Expenses					
Employee Appreciation Expenses	129	283	5,000	4,717	94.3%
Internal/External Event Expenses	-	-	8,000	8,000	100.0%
Election Expense	-	-	-	-	N/A
Reimbursable Repair Expense	-	-	-	-	N/A
Property Taxes	-	-	10,000	10,000	100.0%
Uncollectible Accounts	-	(301)	17,000	17,301	101.8%
NSFs & Miscellaneous Fees	1,015	2,920	18,000	15,080	83.8%
Refund Overcharges	1,290	1,290	2,800	1,510	53.9%
Damage/Repair Reimbursements	-	-	-	-	N/A
Miscellaneous Sub-total	2,434	4,193	60,800	56,607	93.1%
Capital Improvement Expenses					
Water System Projects					
Supply/Storage Projects	-	-	69,314	69,314	100.0%
Pumping Projects	-	2,128	39,000	36,872	94.5%
Main/Service Line Projects	-	-	-	-	N/A
Wastewater System Projects				-	N/A
Pumping Projects	-	-	39,000	39,000	100.0%
Wastewater Treatment Projects	-	178,517	414,836	236,319	57.0%
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	-	27,762	-	(27,762)	N/A
Technoloy Projects & Purchases	-	-	64,000	64,000	100.0%
Building & Structure Improvements	23,694	23,694	-	(23,694)	N/A
General Capital Projects	186,580	223,482	442,000	218,518	49.4%
Construction in Progress	2,889,155	2,987,339	-	(2,987,339)	N/A
Capital Improvement Expenses Sub-total	3,099,429	3,442,922	1,068,150	(2,374,772)	-222.3%
Other Expenses					
Retiree Health Insurance	26,045	78,188	300,000	221,812	73.9%
Depreciation	348,670	1,046,010	4,906,900	3,860,890	78.7%
Debt Interest Expense	138,161	425,514	1,928,200	1,502,686	77.9%
Other Expenses Sub-total	512,876	1,549,712	7,135,100	5,585,388	78.3%
Total Expenses	6,836,835	11,393,090	34,858,670	23,465,580	67.3%
Change in Net Position	(3,895,577)	(1,768,628)	1,642,130		

Attachment 5

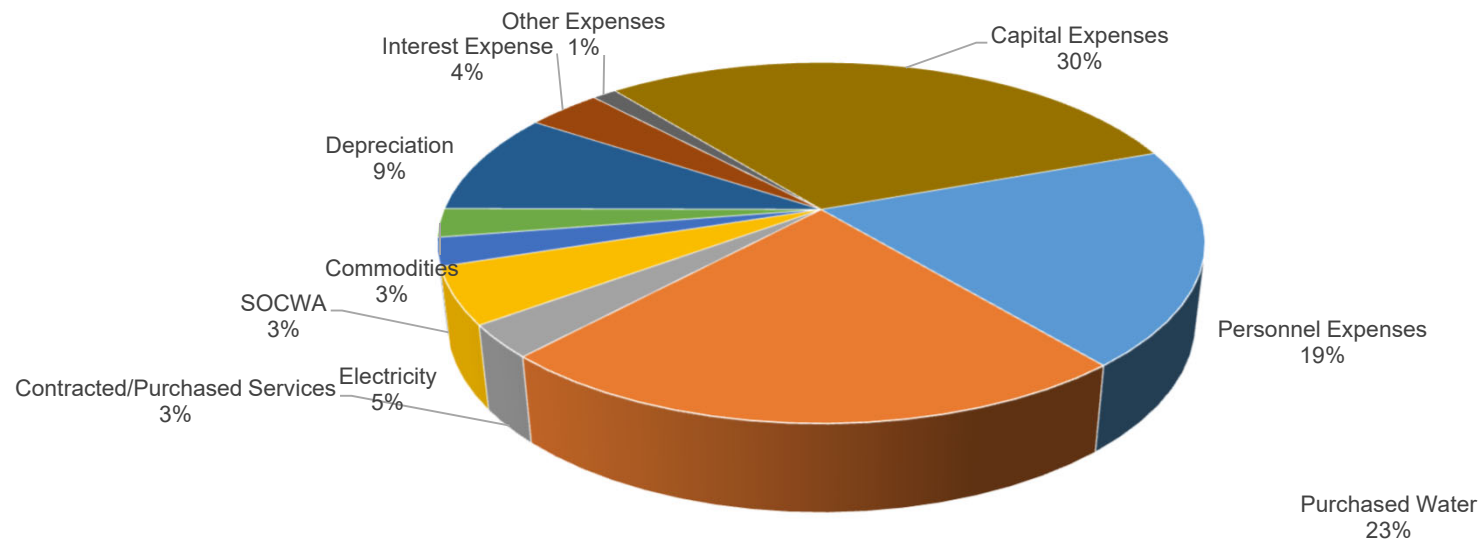
Revenue and Expense Charts for September, 2023

Revenue Charts -August Financial Report

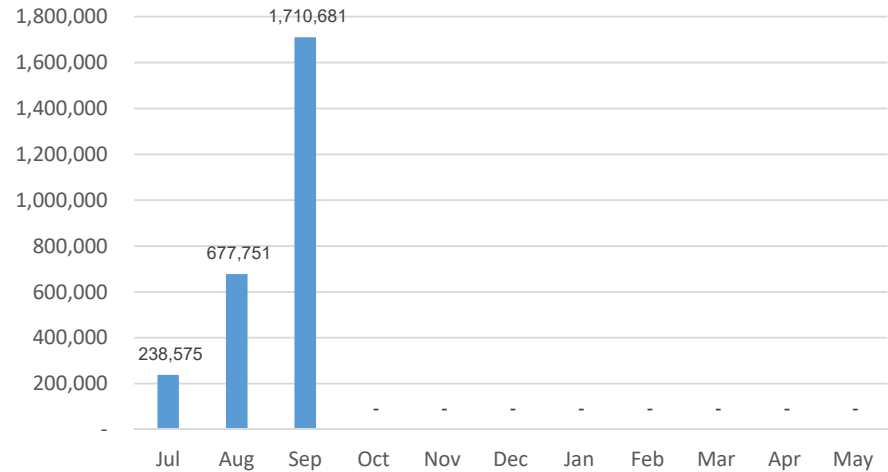


Expense Chart - August Financial Report

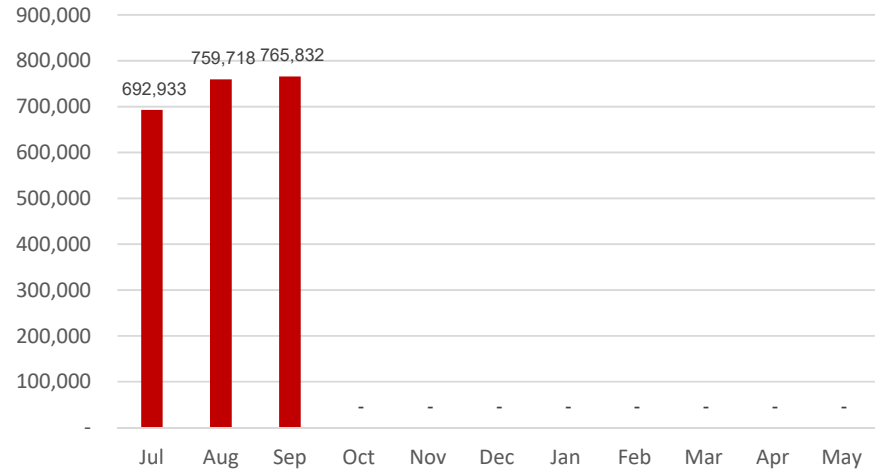
Year to Date Distribution of Expenses



Purchased Water Expenses by Month



Personnel Costs by Month



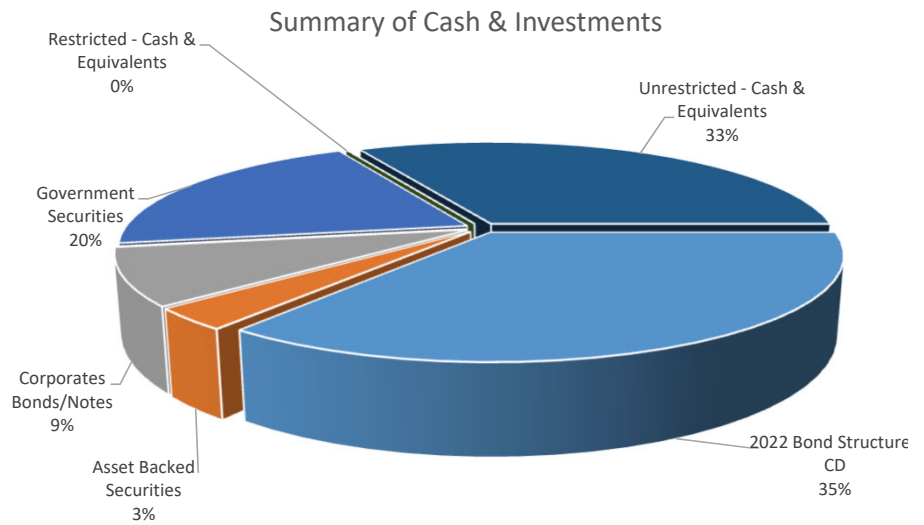
Attachment 6

Summary of Cash & Investments at the end of September, 2023

Summary of Cash & Investments
as of September 30, 2023

Summary of Cash & Investments

Cash & Equivalents	
Unrestricted - Cash & Equivalents	7,584,810
Unrestricted - Cash & Equivalents USB	4,231,253
Restricted - Cash & Equivalents	2,895
Investments	
Government Securities	4,714,468
Certificates of Deposit	-
Corporates Bonds/Notes	2,019,561
Asset Backed Securities	773,901
2022 Bond Structured CD	8,258,719
Total Cash & Investments	<u>27,585,607</u>
Operating Cash & Investments	19,323,993
2022 Bond Proceeds Cash & Investments	8,258,719
Restricted - Cash & Equivalents	2,895



Cash & Equivalents

	Account Balance	Current Yield
Cash & Equivalents		
Demand Deposit Accounts		
US Bank - Checking Account	4,231,253	
US - Capital Facilities Checking	2,895	
US Bank - 2022 Bond Proceeds Checking	-	
Petty Cash	700	
Money Market Accounts		
US Bank - Money Market Account	-	
CAMP Money Market	6,556,355	
LAIF Money Market	1,027,754	
Total Cash & Equivalents	<u>11,818,957</u>	

Investments

	Purchase Cost	Par Amount	Premium/ (Discount)	Market Value	Unrealized Gain/(Loss)	Coupon Rate	Yield to Maturity	Purchase Date	Maturity Date
Certificates of Deposit									
US Bank Structured Maturity CD	4,108,973	4,108,973	-	4,125,754	16,781	2.140%	2.14%	8/1/2022	Various
US Bank Structured Maturity CD	4,108,973	4,108,973	-	4,125,754	16,781	2.140%	2.14%	8/1/2022	Various
US Bank Structured Maturity CD	7,211	7,211	-	7,211	-	3.300%	3.30%	8/1/2022	Various
Certificates of Deposit - Total Balances	<u>8,225,157</u>	<u>8,225,157</u>	<u>-</u>	<u>8,258,719</u>	<u>33,563</u>				

Investments (continued)

	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+	89,982	90,000	(18)	89,452	(531)	0.250%	0.26%	4/26/2021	11/15/2023
US Treasury N/B - AA+	298,734	300,000	(1,266)	294,188	(4,547)	0.250%	0.27%	3/1/2021	2/15/2024
US Treasury N/B - AA+	164,807	165,000	(193)	157,833	(6,974)	0.375%	0.42%	9/3/2021	8/15/2024
US Treasury N/B - AA+	34,854	35,000	(146)	33,354	(1,500)	0.375%	0.52%	10/7/2021	9/15/2024
US Treasury N/B - AA+	347,047	350,000	(2,953)	331,734	(15,313)	1.125%	1.42%	2/4/2022	1/15/2025
US Treasury N/B - AA+	149,566	150,000	(434)	144,281	(5,285)	2.750%	2.85%	6/1/2022	5/15/2025
US Treasury N/B - AA+	466,543	500,000	(33,457)	465,937	(606)	2.125%	4.20%	11/30/2022	5/31/2026
US Treasury N/B - AA+	464,531	500,000	(35,469)	461,406	(3,125)	2.250%	4.10%	11/30/2022	2/15/2027
US Treasury N/B - AA+	480,273	500,000	(19,727)	475,000	(5,273)	3.250%	4.25%	2/22/2023	6/30/2027
US Treasury N/B - AA+	502,500	500,000	2,500	489,531	(12,969)	4.125%	4.01%	11/30/2022	9/30/2027
US Treasury N/B - AA+	497,930	500,000	(2,070)	489,531	(8,399)	4.125%	4.22%	2/22/2023	9/30/2027
US Treasury N/B - AA+	485,332	500,000	(14,668)	477,344	(7,988)	3.500%	4.16%	2/22/2023	1/3/2028
United States Treasury Bond - Totals	3,982,100	4,090,000	(107,900)	3,909,591	(72,509)				
Supra-National Agency Bond / Note									
Inter-American Devel BK Note - AAA	184,863	185,000	(137)	176,075	(8,788)	0.500%	0.52%	9/15/2021	9/23/2024
Supra-National Agency Bond / Note Totals	184,863	185,000	(137)	176,075	(8,788)				
Municipal Bond / Note									
NJ TPK Authority TXBL Revenue Bonds - AA-	20,000	20,000	-	18,921	(1,079)	0.897%	0.90%	1/22/2021	1/1/2025
Municipal Bond / Note Totals	20,000	20,000	-	18,921	(1,079)				
Federal Agency Commercial Mortgage-Backed Security									
FHMS K724 - AA+	48,665	45,586	3,079	31,421	(17,244)	3.062%	0.58%	1/28/2021	11/1/2023
FHLMC Multifamily Structured Pool - AA+	91,628	91,506	122	89,263	(2,365)	3.064%	3.00%	5/25/2022	8/1/2024
FHMS K047 - AA+	90,577	90,000	577	86,947	(3,630)	3.329%	3.10%	5/19/2022	5/1/2025
Federal Mortgage-Backed Security Totals	230,869	227,092	3,777	207,630	(23,238)				
Federal Agency Bond / Note									
Freddie Mac Notes - AA+	155,087	155,000	87	154,239	(848)	0.250%	0.23%	1/6/2021	11/6/2023
Fannie Mae Notes - AA+	250,107	250,000	107	248,011	(2,097)	0.250%	0.24%	1/6/2021	11/27/2023
Federal Agency Bond / Note Totals	405,194	405,000	194	402,250	(2,944)				
Governmental Securities - Total Balances	4,823,026	4,927,092	(104,066)	4,714,468	(108,558)				

Investments (continued)

	Purchase Cost	Par Amount	Premium/ (Discount)	Market Value	Unrealized Gain/(Loss)	Coupon Rate	Yield to Maturity	Purchase Date	Maturity Date
Corporate Notes									
Toyota Motor Credit Corp Corporate Note - A+	69,996	70,000	(4)	68,984	(1,012)	0.450%	0.45%	1/6/2021	1/11/2024
John Deere Corp Notes - A	54,961	55,000	(39)	54,162	(799)	0.450%	0.48%	3/4/2021	1/17/2024
Morgan Stanley Corp Notes - A-	55,000	55,000	-	54,931	(69)	0.529%	0.53%	1/20/2021	1/25/2024
PACCAR Financial Corp Corporate Note - A+	64,925	65,000	(75)	63,830	(1,095)	0.350%	0.39%	1/28/2021	2/2/2024
Microsoft Corp (Callable) Note - AAA	46,864	45,000	1,864	44,594	(2,270)	2.875%	0.95%	12/1/2021	2/6/2024
National Rural Util Coop Corporate Note - A-	24,983	25,000	(17)	24,529	(453)	0.350%	0.37%	2/8/2021	2/8/2024
Apple Inc (Callable) Note - AA+	52,381	50,000	2,381	49,477	(2,903)	3.000%	0.870%	11/1/2021	2/9/2024
Goldman Sachs Corp Notes - BBB+	44,062	40,000	4,062	39,650	(4,412)	4.000%	0.690%	1/21/2021	3/3/2024
Merck & Co Inc Corp Notes	31,377	30,000	1,377	29,634	(1,743)	2.900%	0.880%	11/16/2021	3/7/2024
Charles Schwab Corp Note	29,985	30,000	(15)	29,291	(694)	0.750%	0.770%	3/16/2021	3/18/2024
Suntrust Bank (Callable) Corp Note	63,197	60,000	3,197	59,029	(4,168)	3.200%	0.960%	11/1/2021	4/1/2024
Comcast Corp (Callable) Corp Note	53,305	50,000	3,305	49,472	(3,833)	3.700%	0.960%	11/1/2021	4/15/2024
Bank of NY Mellon Corp Note	54,941	55,000	(59)	53,378	(1,563)	0.500%	0.540%	4/19/2021	4/26/2024
Novartis Capital Corp Note	53,112	50,000	3,112	49,330	(3,782)	3.400%	0.890%	11/1/2021	5/6/2024
Amazon.com Inc Corp Note	79,883	80,000	(117)	77,513	(2,370)	0.450%	0.500%	5/10/2021	5/12/2024
Unitedhealth Group Inc Corp Note	29,969	30,000	(31)	29,063	(906)	0.550%	0.590%	5/17/2021	5/15/2024
Unitedhealth Group Inc Corp Note	29,476	30,000	(524)	29,063	(413)	0.550%	1.320%	1/21/2022	5/15/2024
Caterpillar Finl Service Corp Note	44,940	45,000	(60)	43,588	(1,352)	0.450%	0.500%	5/10/2021	5/17/2024
Astrazeneca Finance LLC (Callable) Corp	49,996	50,000	(5)	48,376	(1,620)	0.700%	0.700%	5/25/2021	5/28/2024
John Deere Capital Corp Notes	9,988	10,000	(13)	9,657	(331)	0.450%	0.490%	6/7/2021	6/7/2024
Target Corp Notes	31,879	30,000	1,879	29,468	(2,411)	3.500%	1.040%	11/23/2021	7/1/2024
American Express Co Corp Notes	36,253	35,000	1,253	34,047	(2,206)	2.500%	1.140%	11/19/2021	7/30/2024
American Honda Finance Corp Notes	29,980	30,000	(20)	28,727	(1,253)	0.750%	0.770%	9/7/2021	8/9/2024
American Honda Finance Corp Notes	35,025	35,000	25	33,515	(1,511)	0.750%	0.720%	9/13/2021	8/9/2024
Caterpillar Finl Service Corp Notes	19,973	20,000	(27)	19,080	(893)	0.600%	0.650%	9/7/2021	9/13/2024
Bank of NY Mellon Corp Note	24,984	25,000	(16)	23,721	(1,263)	0.850%	0.870%	10/20/2021	10/25/2024
Apple Inc Corp Note - AA+	42,786	40,000	2,786	38,660	(4,126)	2.750%	0.890%	3/11/2021	1/13/2025
Goldman Sachs Corp Notes	10,000	10,000	-	9,840	(160)	1.757%	1.760%	1/19/2022	1/24/2025
Bank of America Corp Notes	20,000	20,000	-	19,674	(326)	1.843%	1.840%	2/1/2022	2/4/2025
Merck & Co Inc Corp Notes	21,389	20,000	1,389	19,300	(2,089)	2.750%	0.940%	3/9/2021	2/10/2025
3M Company Corp Note	69,744	70,000	(256)	66,359	(3,384)	2.000%	2.130%	3/3/2022	2/14/2025
JPMorgan Chase & Co Corp Note Call	30,000	30,000	-	29,291	(709)	0.563%	0.560%	2/9/2021	2/16/2025
Exon Mobil Corp Note	29,874	30,000	(126)	28,918	(956)	2.709%	2.860%	4/1/2022	3/6/2025
Bank of America Corp Notes	42,714	40,000	2,714	39,362	(3,353)	3.458%	1.530%	7/22/2021	3/15/2025
Intel Corp Notes	30,873	30,000	873	29,054	(1,818)	3.400%	2.400%	3/8/2022	3/25/2025
Burlington North Santa Fe Corp Note Call	21,533	20,000	1,533	19,329	(2,204)	3.000%	1.070%	3/5/2021	4/1/2025
Amazon.com Inc Corp Notes	74,881	75,000	(119)	72,423	(2,458)	3.000%	3.060%	4/11/2022	4/13/2025
Home Depot Inc Corp Note	4,991	5,000	(9)	4,804	(187)	2.700%	2.760%	3/24/2022	4/15/2025
Target Corp Note	30,015	30,000	15	28,567	(1,447)	2.250%	2.230%	3/8/2022	4/15/2025
Bank of America Corp Notes (Callable)	70,000	70,000	-	67,832	(2,168)	0.976%	0.980%	4/16/2021	4/22/2025
Bank of NY Mellon Corp Note	46,148	45,000	1,148	42,183	(3,964)	1.600%	0.970%	3/10/2021	4/24/2025
Bank of NY Mellon Corp Note	19,997	20,000	(3)	19,311	(686)	3.350%	3.360%	4/19/2022	4/25/2025
Pepsico Inc Corp Note Call	21,400	20,000	1,400	19,182	(2,218)	2.750%	1.020%	3/5/2021	4/30/2025
Citigroup Inc Corp Notes	35,000	35,000	-	33,802	(1,198)	0.981%	0.980%	4/27/2021	5/1/2025
Suntrust Banks Inc Corp Notes	36,373	35,000	1,373	33,823	(2,549)	4.000%	2.690%	3/8/2022	5/1/2025
Charles Schwab Corp Note	40,616	40,000	616	38,698	(1,918)	3.850%	3.300%	6/1/2022	5/21/2025
Morgan Stanley Corp Notes (Callable)	10,000	10,000	-	9,610	(390)	0.790%	0.790%	5/26/2021	5/30/2025
Honeywell Intl Corp Note	20,360	20,000	360	18,727	(1,633)	1.350%	0.910%	3/5/2021	6/1/2025
JPMorgan Chase & Co Corp Note	25,000	25,000	-	24,167	(833)	0.824%	0.82%	5/24/2021	6/1/2025
National Rural Util Coop Corp Note	9,997	10,000	(3)	9,632	(365)	3.450%	3.46%	5/4/2022	6/15/2025
Intel Corp Notes	35,821	35,000	821	33,874	(1,947)	3.700%	2.95%	4/4/2022	7/29/2025
Citigroup Inc Corp Notes	20,000	20,000	-	18,895	(1,105)	1.281%	1.28%	10/27/2021	11/3/2025
State Street Corp Note	20,000	20,000	-	18,817	(1,183)	1.746%	1.75%	2/2/2022	2/6/2026
Citigroup Inc Corp Notes	15,000	15,000	-	14,355	(645)	3.290%	3.29%	3/10/2022	3/17/2022
State Street Corp Note	61,208	60,000	1,208	57,354	(3,854)	2.901%	2.38%	2/17/2022	3/30/2026
JPMorgan Chase & Co (Callable)	80,000	80,000	-	77,609	(2,391)	4.080%	4.08%	4/19/2022	4/26/2026
Corporate Bonds - Total Balances	2,117,152	2,080,000	37,152	2,019,561	(97,591)				

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									
FordL 2021 - AAA	10,979	10,981	(2)	2,343	(8,636)	0.370%	0.380%	9/21/2021	10/15/2024
Harot 2021 - Aaa	7,984	7,985	(0)	6,839	(1,146)	0.270%	0.270%	2/17/2021	4/21/2025
FordO 2021 - AAA	11,801	11,802	(1)	10,290	(1,511)	0.300%	0.300%	2/17/2021	8/15/2025
Harot 2021 - Aaa	20,665	20,666	(1)	18,250	(2,415)	0.330%	0.330%	5/18/2021	8/15/2025
GMCar 2021 - AAA	5,260	5,261	(1)	4,581	(680)	0.350%	0.350%	1/12/2021	10/16/2025
Harot 2021 - AAA	28,835	28,836	(0)	25,816	(3,020)	0.410%	0.410%	8/17/2021	11/18/2025
Carmx 2021 - AAA	6,246	6,247	(1)	5,493	(753)	0.340%	0.340%	1/20/2021	12/15/2025
Harot 2021 - Aaa	22,892	22,897	(5)	20,607	(2,285)	0.880%	0.890%	11/16/2021	1/21/2026
TAOT 2021 - AAA	27,661	27,662	(1)	24,979	(2,682)	0.710%	0.710%	11/9/2021	4/15/2026
Hart 2021 - AAA	18,340	18,344	(4)	16,561	(1,779)	0.740%	0.750%	11/9/2021	5/15/2026
Harot 2022 - AAA	44,993	45,000	(7)	43,290	(1,703)	1.880%	1.880%	2/15/2022	5/15/2026
FordO 2022 - Aaa	24,236	24,239	(3)	21,940	(2,296)	1.290%	1.290%	1/19/2022	6/15/2026
BMWOT 2021 - AAA	24,999	25,000	(1)	24,385	(614)	3.210%	3.210%	5/10/2022	8/25/2026
COPAR 2021 - AAA	23,282	23,282	(0)	21,062	(2,220)	0.770%	0.770%	10/19/2021	9/15/2026
FordO 2022 - Aaa	24,999	25,000	(1)	24,471	(528)	3.740%	3.740%	6/22/2022	9/15/2026
TAOT 2022 - AAA	29,999	30,000	(1)	29,110	(889)	2.930%	2.930%	4/7/2022	9/15/2026
DCENT 2021 - AAA	54,988	55,000	(12)	52,319	(2,669)	0.580%	0.580%	9/20/2021	9/15/2026
GMCar 2021 - AAA	22,867	22,867	(1)	20,698	(2,169)	0.680%	0.680%	10/13/2021	9/16/2026
Hart 2022 - AAA	54,998	55,000	(2)	53,124	(1,874)	2.220%	2.220%	3/9/2022	10/15/2026
Comet 2021 - AAA	49,993	50,000	(7)	47,442	(2,551)	1.040%	1.040%	11/18/2021	11/15/2026
Ally 2022 - AAA	59,988	60,000	(12)	58,647	(1,342)	3.310%	3.310%	5/10/2022	11/15/2026
GMCar 2022 - AAA	19,998	20,000	(2)	19,070	(928)	1.260%	1.260%	1/11/2022	11/16/2026
HDMOT 2022 - AAA	34,994	35,000	(6)	34,219	(775)	3.060%	3.060%	4/12/2022	2/15/2027
GMCar 2022 - AAA	24,995	25,000	(5)	24,278	(717)	3.100%	3.100%	4/5/2022	2/16/2027
Carmx 2022 - AAA	34,995	35,000	(5)	34,154	(841)	3.490%	3.490%	4/21/2028	2/16/2027
Comet 2022 - AAA	69,995	70,000	(5)	67,153	(2,842)	2.800%	2.800%	3/23/2022	3/15/2027
Comet 2022 - AAA	64,990	65,000	(10)	62,782	(2,208)	3.490%	3.490%	6/6/2022	5/15/2027
Corporate Bonds - Total Balances	825,973	826,069	(96)	773,901	(52,072)				

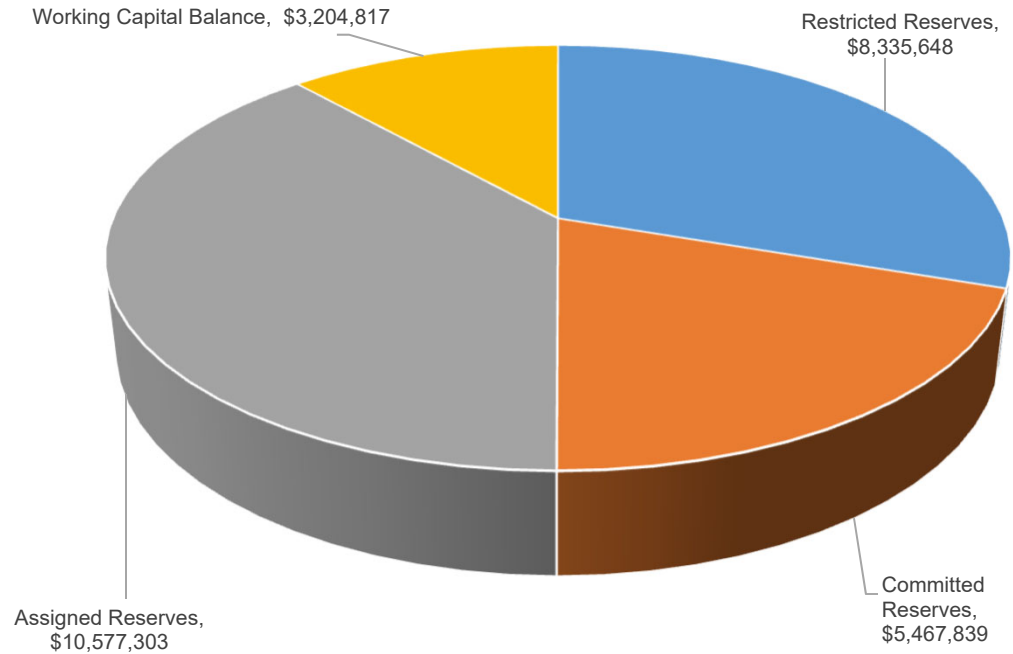
Attachment 7

Cash Reserve Balances for September, 2023

El Toro Water District
Cash Reserve Status Report for the month ended September 30, 2023

	Cash Reserve Balances	Reserve Targets
Reconciled Cash Balance	\$ 27,585,606	
Restricted Reserve		
Bond Project Reserve	8,258,719	-
Capital Facilities	2,895	-
Tiered Conservation	74,034	-
Restricted Reserve Total	8,335,648	-
Committed Reserves		
Rate Stabilization	1,835,600	2,100,000
Operational Continuity	1,300,000	2,100,000
Capital Improvements	1,738,323	3,000,000
Current CIP Working Cash	593,916	-
Committed Reserves Total	5,467,839	7,200,000
Assigned Reserves		
Capital Improvement		
Carryover Capital	2,508,182	-
Accumulated Capital	1,968,375	-
CIP - 2022 Bond projects	2,637,031	-
SOCWA Capital Projects	3,374,267	-
Debt Service		
Baker Funding	89,448	-
O&M Working Capital	3,204,817	2,100,000
Assigned Reserves Total	13,782,120	2,100,000
Total Cash Reserves	27,585,607	
Adjusted Cash Reserves⁽¹⁾	19,323,993	9,300,000

Distribution of Reserve Balances



(1) 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 September, 2023

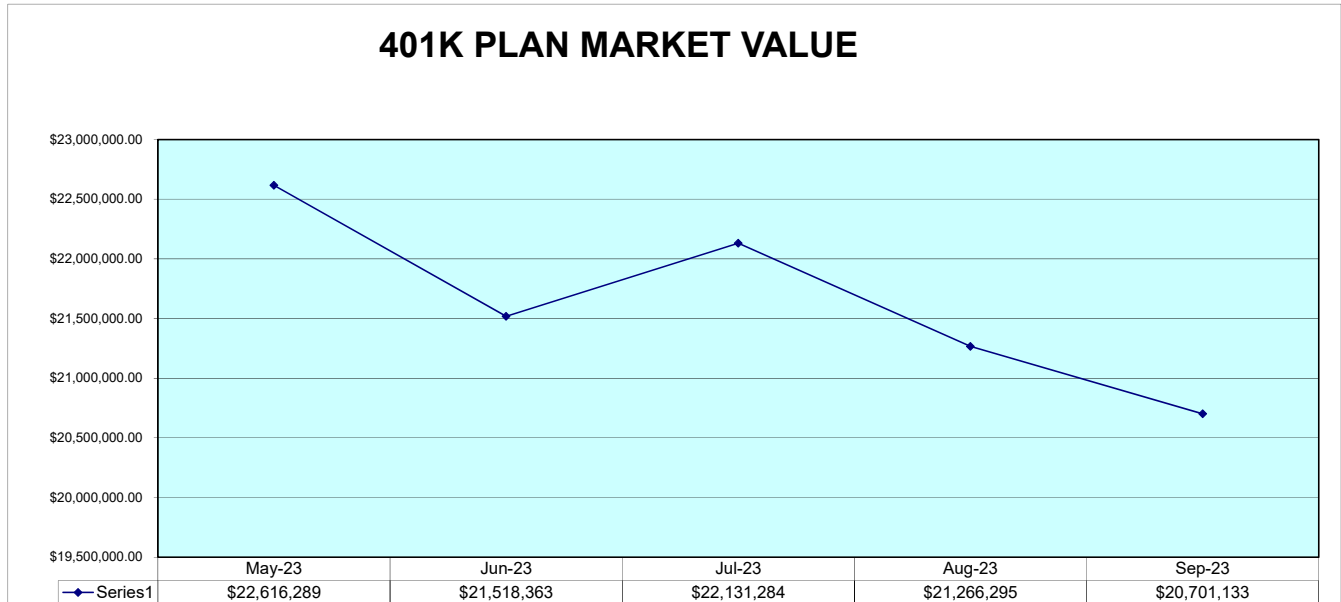
2023-2024 Capital Program Budget Information

General Ledger Information									2023 - 2024
Account Description	PM Task Code	Project Description	Budget Account	Total Budget	2023 - 2024 Expenses				Budget Remaining
					Jul	Aug	Sep	YTD Total	
<u>Unfinished Projects from 2022-23 continue in FY 2023-24</u>									
R-6 Reservoir Cover/Liner Project (RES-0047)	RES-0047	R-6 Reservoir Cover (CIP23)	40-000-15003/CIP23	7,984,432		98,184	3,749,894	3,848,078	4,136,354
JTM Pump station 32-093	WPS-0093	JTM Pump station 32-093	CIP23	96746		96,746	859	97,605	(859)
P-1 Fence Alarm Replacement	WPS-0094	P-1 Fence Alarm Replacement	CIP23	<u>2128</u>		<u>2,128</u>		2,128	(0)
				8,083,306	-	197,058	3,750,753	3,947,811	4,135,495
<u>CCP</u>									
WIMS Services - Database Management System	CAP-0005	WIMS Services - Database Mgt Sys.	CCP				19,800	19,800	
Professional services through 7/31/23	GEN-0112	Professional services General	CCP		<u>24,754.04</u>		<u>21,066</u>	<u>45,820</u>	
					24754.04	0	40866.41	65620.45	0
<u>CIP24</u>									
General 23/24 CIP - VEH-0010	VEH-0010	23-24 Vehicle Purchases	40-000-15910	125,000.00	-	27,762	-	27,762	97,238
General Capital Projects - Consultants	CAP-0023	Asset Management Study 31-050	40-840-55100	220,000.00	-	15,528	-	15,528	204,473
General Capital Projects - Consultants	SPS-0053	System Arc Flash Coord Study	40-850-55100	180,000.00	-	-	-	-	180,000
General Capital Projects - Equipment Purchase	CAP-0054	23-24 ATS Replacements	40-840-66120	42,000.00	-	-	-	-	42,000
Sewer Pumping - Equipment Purchase	CAP-0051	23-24 Sewer PLC Upgrade	40-740-66120	25,000.00	-	-	-	-	25,000
Sewer Pumping - Equipment Purchase	CAP-0053	Sewer Station HMI Rplmnt	40-740-66120	14,000.00	-	-	-	-	14,000
Source of Supply - Contract Capital Expense	RCE-0010	23-24 JRWSS Capital Budget	40-710-66230	13,114.00	-	-	-	-	13,114
Source of Supply - Contract Capital Expense	RCE-0011	23-24 Baker WTP Capital Fund	40-710-66230	56,200.00	-	-	-	-	56,200
Tech 23/24 CIP - TCP-0007	TCP-0007	Core Switch Replacement	40-000-15920	63,000.00	20,389	-	-	20,389	42,611
Technology Projects - Equipment Purchase	TCP-0006	23-24 Security System Imprmnts	40-820-66120	50,000.00	-	-	-	-	50,000
Technology Projects - Equipment Purchase	TCP-0008	EOC Technology Upgrade	40-820-66120	16,000.00	-	-	-	-	16,000
Wastewater Treatment - Contract Capital Expense	RCE-0012	23-24 SOCWA Capital Expenses	40-750-66230	414,836.00	103,898	-	-	103,898	310,938
Wastewtr 23/24 CIP - CAP-0018	CAP-0018	DAF Unit #2 Rehab 933-136	40-000-15636	94,000.00	-	-	-	-	94,000
Wastewtr 23/24 CIP - SLS-0001	SLS-0001	S/B SLS-0117 Mathis LS Influen	40-000-15630	0.00	-	-	-	14,553	(14,553)
Wastewtr 23/24 CIP - SLS-0118	SLS-0118	Surcharge CAP Repair - Goudy	40-000-15630	52,000.00	-	-	-	-	52,000
Wastewtr 23/24 CIP - SLS-0119	SLS-0119	Northline Coating Impr Project	40-000-15631	91,000.00	-	-	-	-	91,000
Wastewtr 23/24 CIP - SLS-0120	SLS-0120	Freeway Electrical Equip Repl	40-000-15633	110,000.00	-	-	-	-	110,000
Wastewtr 23/24 CIP - WRP-0131	WRP-0131	Grit Chamber Rehab 933-131	40-000-15633	861,861.00	-	49,757	11,563	61,320	800,541
Wastewtr 23/24 CIP - WRP-0137	WRP-0137	Tertiary Disinfection Optimize	40-000-15634	0.00	-	-	-	4,346	(4,346)
Wastewtr 23/24 CIP - WRP-0142	WRP-0142	Coarse Screen Rehabilitation	40-000-15634	2,926,000.00	-	-	-	-	2,926,000
Water 23/24 CIP - RES-0015	RES-0015	R-4 Exterior Recoating	40-000-15050	35,100.00	-	-	-	-	35,100
Water 23/24 CIP - RES-0016	RES-0016	Moulton/El Toro Cathodic Study	40-000-15051	100,000.00	-	-	-	-	100,000
Water 23/24 CIP - RES-0017	RES-0017	SRV-2 Lid Repair	40-000-15052	33,000.00	-	-	-	-	33,000
Water 23/24 CIP - RES-0018	RES-0018	R-6 Security Improvements	40-000-15053	84,000.00	-	-	-	-	84,000
Water 23/24 CIP - WRP-0095	WPS-0095	P-3 Pump Station Rehab	40-000-15054	200,000.00	-	-	-	-	200,000
Water CIP - CAP-0019	CAP-0019	Aliso Creek Pump Rehab 932-115	40-000-15022	826,000.00	-	-	-	-	826,000
Water Pumping - Equipment Purchase	CAP-0050	23-24 Water PLC Upgrade	40-720-66120	25,000.00	-	-	-	-	25,000
Water Pumping - Equipment Purchase	CAP-0052	Water Station HMI Rplmnt	40-720-66120	14,000.00	-	-	-	-	14,000
Server for WRP	CAP-0062	Other unbudgeted Capital Expense	40-820-56460	32,500.00	-	-	-	-	32,500
Contingency 23/24	RCE-0004	Other unbudgeted Capital Expense	Various	0.00				159,650	(159,650)
(1)	CAP-0055	Other unbudgeted Capital Expense	Various	0.00	-	13,668.00	-	13,668	(13,668)
Total				<u>6,703,611.00</u>	<u>124,287.40</u>	<u>106,714.38</u>	<u>11,563.44</u>	<u>421,114.29</u>	<u>10,417,991.38</u>

Attachment 9
Interim Report on 401k Plan Holdings

EL TORO WATER DISTRICT 401K PLAN SUMMARY

401K PLAN MARKET VALUE



MARKET VALUE SUMMARY							
	Under 40 yrs. Old	40 to 44 yrs. Old	45 to 49 yrs. Old	50 to 54 yrs. Old	55 to 59 yrs. Old	60 to 64 yrs. Old	Over 65 yrs. Old
Balance at June 30, 2022	\$1,453,468.56	\$2,095,353.59	\$1,103,519.44	\$2,887,912.79	\$7,733,640.95	\$3,735,784.96	\$2,508,682.94
Balance at September 30, 2023	\$1,505,302.92	\$2,086,422.08	\$1,100,135.53	\$2,850,114.28	\$6,796,209.85	\$3,918,923.76	\$2,444,025.07

District 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 Account Balance	Contributions	Interest, Dividends and Appreciation Net of Fees & Chrges	Ending Account Balance
American Beacon AHI Managed Futures Strategy Fund A Class	581,562.75	3,457.43	189.59	617,261.23
Blackrock Tactical Opportunities Fund Class K Shares	213,694.15	1,347.63	71.57	213,849.33
Blackrock Total Factor Fund Institutional Shares	64,932.74	199.61	4.91	0.00
Columbia Contrarian Core Func Institutional 3 Class	1,755,591.19	11,782.70	661.66	1,645,579.37
Delaware Small Cap Core Fund Class R6	638,517.93	3,977.00	235.63	611,773.92
Dfa Large Cap International Portfolio Institutional Class	1,070,614.24	7,797.87	401.56	1,056,246.58
Dodge & Cox Income Fund Class I	2,098,723.91	13,495.03	683.62	2,080,647.89
Dodge & Cox International Stock Fund Class I	265,205.75	1,802.40	107.94	256,504.08
Dodge & Cox Stock Fund Class I	948,249.23	6,429.37	347.71	892,346.34
Doubleline Core Fixed Income Fund Class R6	2,160,994.85	13,304.95	678.59	2,153,433.08
Emerald Growth Fund Institutional Class	384,367.15	2,874.39	154.93	373,809.64
Guaranteed Income Fund	2,137,412.28	6,394.13	360.12	1,649,457.53
Harbor Capital Appreciation Fund Retirement Class	742,353.87	5,383.15	287.25	695,282.56
Mfs International Growth Fund Class R6	254,466.03	1,802.32	107.94	252,512.88
Nuveen Real Estate Securities Fund Class R6	678,299.95	4,251.70	216.67	645,176.52
Pgim Total Return Bond Fund -class R6	2,061,510.82	11,828.22	577.64	2,042,061.51
Pimco Income Fund Institutional Class	213,675.88	1,543.92	76.48	210,200.54
Pimco Real Estate Fund Institutional Class	945,169.59	6,429.27	347.64	901,574.14
The Merger Fund Class I	216,991.19	1,347.38	71.56	213,170.15
Undiscovered Managers Behavioral Value Fund Class R6	398,750.08	2,874.14	154.85	374,364.82
Vanguard Emerging Markets Stock Index Fund Admiral Shares	473,197.69	3,460.00	193.98	477,855.47
Vanguard Growth And Income Fund Admiral Shares	1,788,353.19	11,999.11	658.11	1,690,897.71
Vanguard Growth Index Fund Admiral Shares	795,556.49	5,478.14	285.97	744,061.92
Vanguard Long-term Investment-grade Fund Admiral Shares	722,913.03	4,130.79	220.45	711,458.44
Vanguard Mid-cap Index Fund Admiral Shares	213,918.39	1,347.37	71.58	205,107.16
Grand Total	21,825,022.29	134,738.02	7,167.95	20,714,632.80

MINUTES OF THE REGULAR MEETING
& OF THE
ENGINEERING COMMITTEE MEETING

September 25, 2023

At approximately 8:17 a.m. Director Freshley called the Engineering Committee meeting to order.

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

Also participating were DENNIS P. CAFFERTY, General Manager, JUDY CIMORELL, Human Resources Manager, HANNAH FORD, Engineering Manager, GILBERT J. GRANITO, General Counsel, VISHAV SHARMA, CFO, SCOTT HOPKINS, Operations Superintendent, CAROL MOORE, Laguna Woods City Council member (Zoom), and POLLY WELSCH, Recording Secretary.

Consent Calendar

Director Freshley asked for a Motion.

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

Roll Call Vote:

Director Monin	aye
Director Gaskins	aye
Director Freshley	aye
President Havens	aye

Engineering Action Items

Aliso Creek Lift Station Improvements Project – Alternatives Analysis

Ms. Ford stated that staff started an in-house design Project to replace the generator at the Aliso Creek Lift Station, and as the Project progressed, scope

expanded to address additional operator concerns, such as modifying the site to allow vector truck access and improving the pumps that are not operating at their rated capacity.

Ms. Ford stated that staff solicited six consultants, and five showed up for the mandatory pre-proposal meeting, with three ultimately submitting proposals. She further stated that after reviewing the proposals and conducting interviews with two shortlisted consultants, staff decided to recommend issuing the contract to Tetra Tech in the amount of \$120,000.00 which will include an evaluation of three different alternatives for the lift station.

Director Freshley asked for a Motion.

Motion: President Havens made a Motion, seconded by Director Gaskins to authorize the General Manager to issue a contract to Tetra Tech in the amount of \$120,000.00 for engineering services to develop the Alternatives Analysis for the Aliso Creek Lift Station Improvements Project.

Roll Call Vote:

Director Monin	aye
Director Gaskins	aye
Director Freshley	aye
President Havens	aye

R-6 Reservoir Perimeter Road Repair Project

Ms. Ford stated that final design is complete and staff recommends replacing the entire perimeter road with a new 4-inch section of asphaltic concrete over 8-inches of aggregate base. She further stated that staff solicited bids from four contractors.

Ms. Ford stated that staff is recommending issuing a contract to Pave West in the amount of \$1,031,648 for construction of the perimeter road repair, and a contract to

GMU Engineers and Geologists in the amount of \$34,663 for Material Observation and Testing Services during construction.

Director Freshley asked for a Motion.

Motion: Director Gaskins made a Motion, seconded by President Havens to authorize the General Manager to 1) issue a contract to Pave West in the amount of \$1,031,648 for construction of the perimeter road repair around the R-6 Reservoir, and 2) issue a contract to GMU Engineers & Geologists in the amount of \$34,663 for Material Observation and Testing Services during construction.

Roll Call Vote:

Director Monin	aye
Director Gaskins	aye
Director Freshley	aye
President Havens	aye

R-6 Reservoir Security System Replacement Project

Mr. Cafferty stated that staff is proposing the procurement and installation of a state-of-the-art security system to safeguard the Reservoir. He further stated that Convergent would monitor the alarm system.

Mr. Cafferty stated that staff will need to install a pole which staff will receive competing bids for the installation and should be within the General Manager's authority.

Director Freshley asked for a Motion.

Motion: Director Monin made a Motion, seconded by Director Gaskins to authorize the General Manager to issue a contract to Convergent in the amount of \$89,234.00 for the installation of a security system at the R-6 Reservoir.

Roll Call Vote:

Director Monin	aye
Director Gaskins	aye
Director Freshley	aye
President Havens	aye

Lead and Copper Rule Revisions Compliance

Mr. Cafferty stated that the purpose of these revisions is to eliminate lead service lines in the country. He further stated that staff will have to do an inventory of all service pipelines in our system to identify material and replace any lead or galvanized that has been connected to lead.

Mr. Cafferty stated that MWDOC is issuing a contract to Hazen and Sawyer for the participating agencies to cost share engineering services. The effort will take place in three phases. Staff are recommending entering into the agreement with MWDOC for Phase 1 to develop the inventory.

Director Freshley asked for a Motion.

Motion: Director Gaskins made a Motion, seconded by Director Monin to authorize the General Manager to enter into a cost sharing agreement with the Municipal Water District of Orange County in an amount Not to Exceed \$100,000 for phase 1 engineering services from Hazen and Sawyer as part of its Lead and Copper Rules Revision compliance assistance program.

Roll Call Vote:

Director Monin	aye
Director Gaskins	aye
Director Freshley	aye
President Havens	aye

Resolution No. 23-9-1 Adopting the 2023 Update to the District's Local CEQA

Guidelines

Mr. Cafferty stated that most of the changes that have occurred do not pertain to projects that the District is working on. He further stated that having these guidelines allows us to directly communicate their requirements to our contractors and take advantage of exemptions where they exist.

Director Freshley asked for a Motion.

Motion: Director Monin made a Motion, seconded by Director Gaskins to adopt Resolution No. 23-9-1 approving the 2023 update to the District's Local California Environmental Quality Act (CEQA) Guidelines.

Roll Call Vote:

Director Monin	aye
Director Gaskins	aye
Director Freshley	aye
President Havens	aye

Engineering Information Items

Water and Sewer Master Plan Update

Ms. Ford provided a status update outlining the key outcomes of the Water and Sewer Master Plan.

Director Freshley suggested that this topic would be a good presentation to show at a future CAG meeting.

Capital Projects Status Report

R-6 Reservoir Floating Cover and Liner Replacement Project

Ms. Ford stated that staff were able to assist in the inflation inspection of the underside of the cover and the burn area to confirm adequate cleaning took place. She

further stated that the cords for the valve open/close switches for the underwater valves have now been received.

Ms. Ford stated that the fill process is underway.

Effluent Transmission Main (ETM) Backflow Prevention Project

Ms. Ford stated that the Project is essentially complete and will be closed out upon receipt of the missing pipe support.

Effluent Pump Station Rehabilitation Project

Ms. Ford stated that this Project is almost complete. She further stated that during pump installation there were two locations where the pipe flange broke, and Filanc provided flange adapters and fixed the problem.

Ms. Ford stated that staff expects a final invoice by the end of September.

Mathis Lift Station Inlet Repair

Ms. Ford stated that an alternative design is being developed to reduce the cost of the originally conceived project with two new manholes. The value engineered design will involve a drop inlet section within the wet well and is under development by in-house staff.

New Warehouse

Ms. Ford stated that the contractor has mobilized to the Project site and is working on submittals for the metal building. She further stated that the long lead times for the electrical components delivery are anticipated to be December 2024.

Asset Management

Ms. Ford stated that staff held kickoff meetings, staff interviews, and condition assessments at the WRP, and next Hazen will develop consequence of failure scoring to factor in each assets risk score.

Ms. Ford stated that Hazen transferred the dashboards to the District's network for hosting and now the District can make edits and updates.

System Wide Arc Flash and Coordination Study

Ms. Ford stated that staff had a kickoff meeting with the consultant, Hazen and Sawyer, plans to request data from SCE, and is in the process of scheduling site visits with Hazen at each facility.

Tertiary Disinfection Optimization Project

Ms. Ford stated that Trussell kicked off the tracer study effort with a site visit to the WRP last month, and they are working on a draft tracer study protocol.

Engineering Items Discussed at Various Conferences and Meetings

There were no comments.

Comments Regarding Non-Agenda Engineering Committee Items

Director Freshley provided a report from the ACWA Energy Committee meeting.

Mr. Cafferty congratulated and thanked staff for extra efforts to complete the Board package ahead of schedule this month. Mr. Cafferty stated that the quarterly audits are complete and the annual audit is near completion and will be presented to the Board in October or November. Mr. Cafferty further stated that staff will be conducting the annual open enrollment meeting for the health care insurance on Wednesday, September 27.

Adjournment

There being no further business, the Engineering Committee meeting was adjourned at approximately 9:45 a.m.

Attorney Report

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

Adjournment

There being no further business to come before the Board, the meeting was adjourned at 9:48 a.m.

Respectfully submitted,

POLLY WELSCH
Recording Secretary

APPROVED:

KAY HAVENS, 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



STAFF REPORT

To: Board of Directors **Meeting Date:** October 23, 2023

From: Hannah Ford, Engineering Manager

Subject: Resolution No. 23-10-1 Authority to Apply for, Receive, Enter into a Cooperative Agreement, and Administer a Grant for the WaterSMART Planning and Project Design for Fiscal Year (FY) 2023 and FY 2024

BACKGROUND

In 2021, the District conducted a study to evaluate further expanding its non-potable recycled water system. Expansion costs were high, at approximately \$1,580 per AFY in 2021 dollars. Further, non-potable recycled water carries additional complications of restricted use, seasonal demands, and potential for salinity increases that may require additional treatment. After presenting these findings at the November 2021 Board meeting, District staff started exploring opportunities for grant funding to study how to access potable reuse as a source of supply. Due to the District's lack of an environmental buffer that would provide over two months of retention, its potable reuse options are limited to treated water augmentation, a form of direct potable reuse (DPR), as shown in Figure 1.

SOURCES OF SUPPLY

Currently, the District relies entirely on imported supplies, conveyed directly from Metropolitan Water District of Southern California (MWD) or from the Baker Water Treatment Plant, to meet its potable water demands. The District owns and operates a Water Recycling Plant (WRP) that produces high quality secondary effluent, a portion [average of 1.3 million gallons per day (mgd)] of which is further treated at the Tertiary Treatment Plant (TTP) for non-potable reuse. Demand for non-potable reuse fluctuates diurnally and seasonally, so the majority (average of 2.3 mgd) of the secondary effluent requires disposal to the Aliso Creek Ocean Outfall.

Adjacent to the WRP, Veeh Lakes collect urban runoff from the Newport Bay Watershed. Additionally, the majority of the ETWD service area resides within the Aliso Creek Watershed. Unnatural levels of dry and wet weather runoff in these watersheds can alter flow regimes, impair water quality, and cause stream erosion and minor flooding. Runoff capture has the potential to mitigate these issues while also improving ecosystem health and water quality. The volume, cost, and feasibility of capturing this source of supply needs to be quantified through a DPR Strategic Plan (Plan).

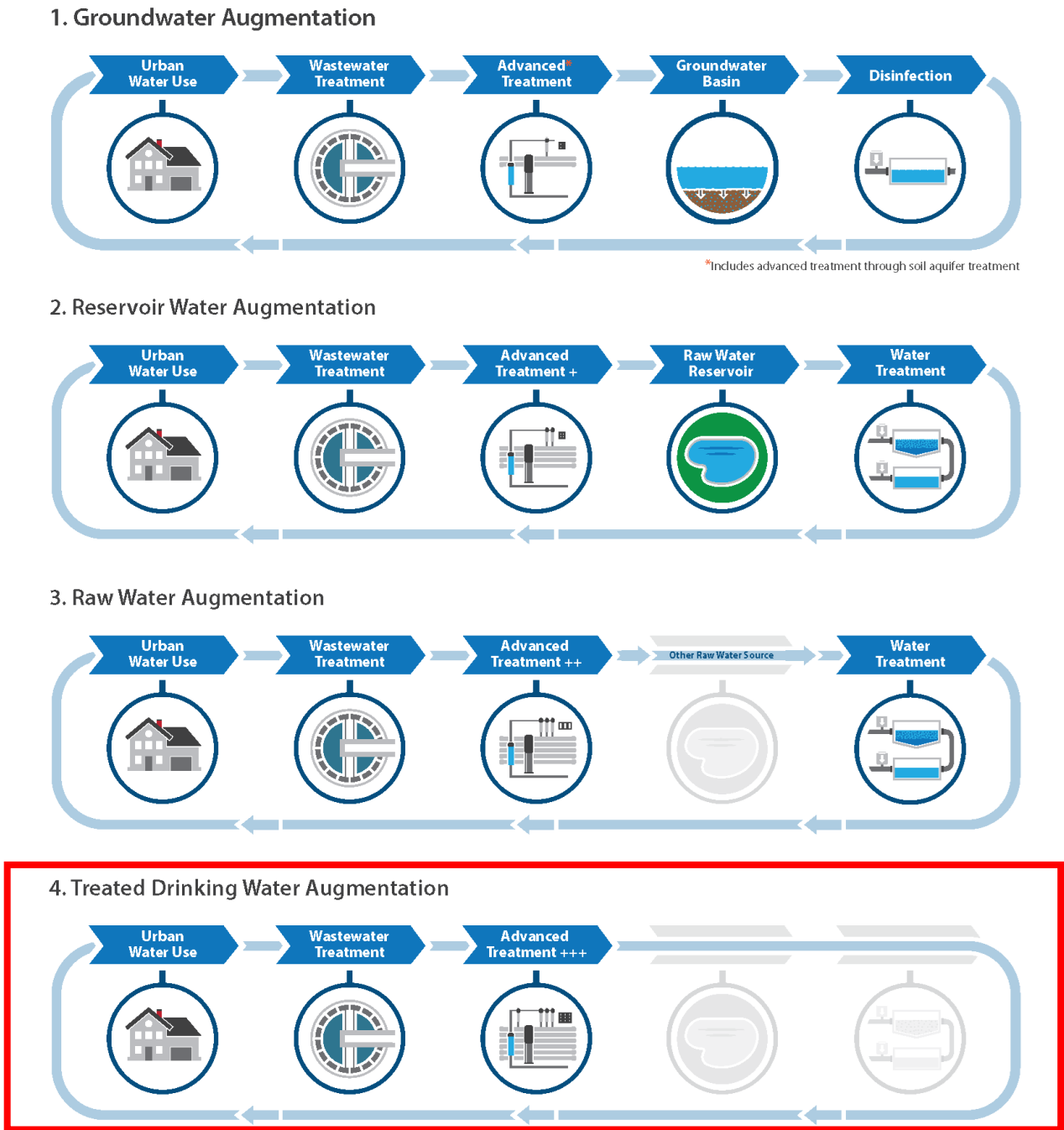


Figure 1 – Type of Potable Reuse as defined by the California Code of Regulations¹

¹ Graphic courtesy of the 2021 WaterReuse California Strategic Plan

To reduce discharges of treated wastewater and urban runoff to waterways and the ocean, the Plan will evaluate wastewater and urban runoff as sources of supply. By accessing 2.3 mgd or 2,578 AFY in additional supply through potable reuse, the District could reduce its imported water demand by 28%, as shown in Figure 2.

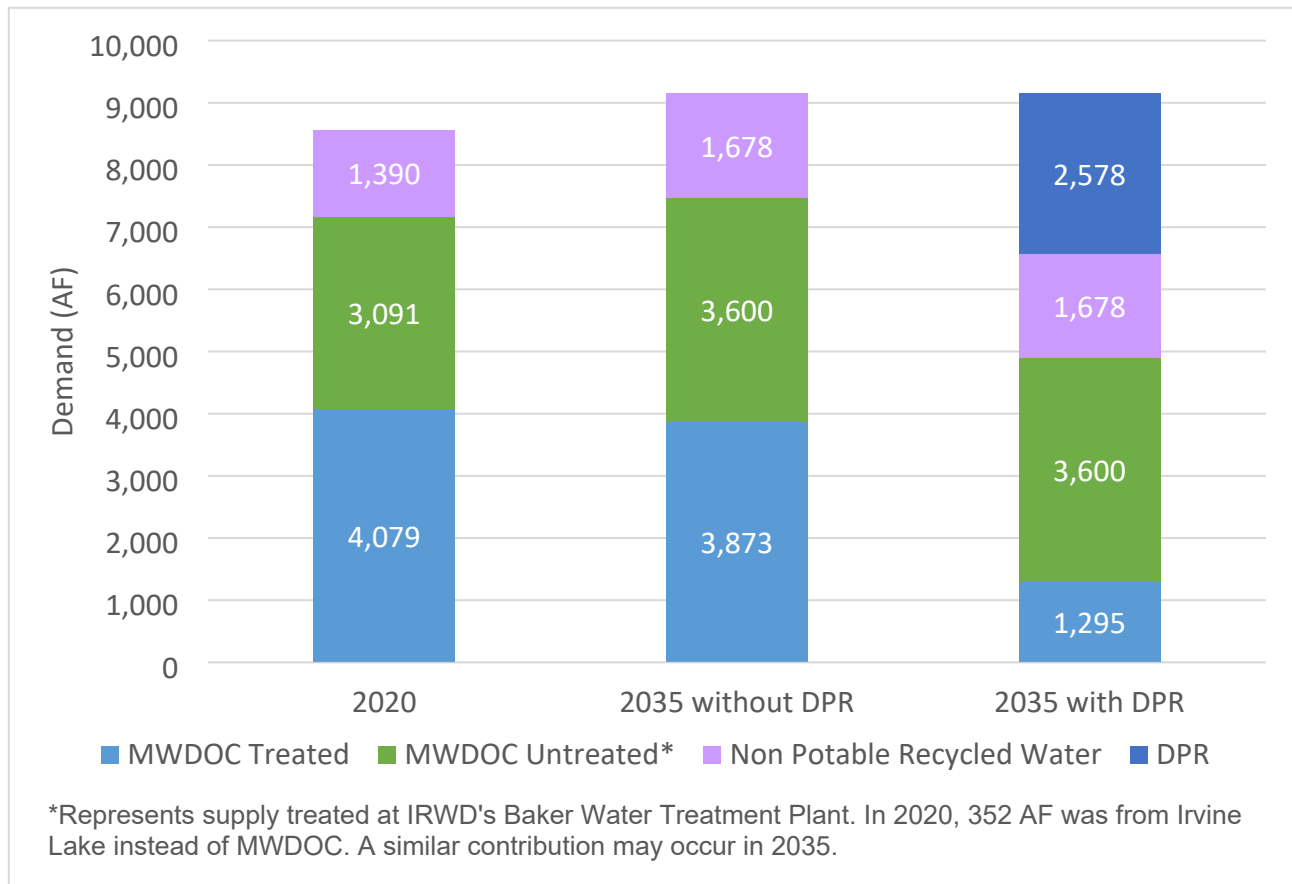


Figure 2 – District Water Supply Portfolio: Current and Projected

SCOPE OF WORK

The DPR Strategic Plan would involve hiring consultants to lead the technical investigations and develop an outreach plan. Organized in keeping with grant requirements, Table 1 summarizes the Plan's scope of work.

Table 1 – DPR Strategic Plan Scope of Work

DPR Strategic Plan Task	Key Outcomes
1: Outreach and Partnership Building;	<ul style="list-style-type: none"> - Public Engagement Plan - Public Engagement Workshops - Project Vision and Goals Technical Memorandum (TM)
2: Analysis, Scoping, and Planning Activities	
2a. Analysis of Problems and Needs	Statement of Problems and Needs
2b. Identification of Potential Opportunities	<ul style="list-style-type: none"> - Available Sources TM - Water Quality Evaluation TM - Site Layouts for Each Alternative and Subalternative - Operational Needs and Staffing Plan TM - Regulatory Considerations TM - Comparative Unit Cost Estimates and Resiliency Analysis - Residuals Management TM
2c. Alternatives Review Workshop	Treatment and Project Evaluation TM
2d. Implementation Strategy	Roadmap Document with Gantt Chart
3: Development of the DPR Strategic Plan	DPR Strategic Plan that includes Environmental, Legal, and Financial Considerations
4: Project Management and Meetings	<ul style="list-style-type: none"> - Kick-Off Meeting - Monthly Project Meetings - Site Assessments - Monthly Board Updates - Progress Reports as needed by Reclamation - Project Management Plan

BUDGET AND SCHEDULE

The United States Department of the Interior's Sustain and Manage America's Resources for Tomorrow (WaterSMART) Program issued a Notice of Funding Opportunity (NOFO) No. R23AS00109, which could cover 50 percent of the District's costs to pursue a DPR Strategic Plan. On October 17, 2023, District staff responded to this NOFO with an application requesting funding for \$395,228.73 to cover the majority of the consulting costs for the Plan.

The District would cover the remaining costs, currently estimated at \$181,098.95 from capital and \$214,129.79 from operational revenues to cover additional consulting, staff time, and water quality testing. District staff plan to pursue additional funding opportunities to cover the remaining capital cost share for the Plan, such as the Integrated Climate Adaption and Resiliency Program (ICARP) Regional Resilience Planning and Implementation Grant Program. In fact, District staff have been pursuing similar grant funding opportunities as they become available. In January 2021, the Board passed a similar resolution approving District staff to pursue a different WaterSMART grant funding opportunity for a DPR Feasibility Study, but the District's application was deemed ineligible based on a technicality – the District had not yet obtained a Unique Entity Identifier (UEI) from the federal government. The cumbersome process to obtain a UEI took almost a year, but staff were ultimately successful, rendering the District eligible for federal grant funding opportunities.

District staff recommend the Board pass this resolution to strengthen the grant application. Grant award is not anticipated until July 2024. After award, the Plan will take 18 months to complete (i.e., by December 2025).

ALIGNMENT WITH REGIONAL EFFORTS

This effort aligns with the 2018 South Orange County Integrated Regional Water Management Plan (IRWMP) principals of increasing water supply reliability, improving water quality, and protecting natural resources. Collaboration with IRWMP partners and local stakeholders, including city officials and regional partners such as Moulton Niguel Water District, South Orange County Wastewater Authority, Irvine Ranch Water District, Santa Margarita Water District, Municipal Water District of Orange County (MWDOC), and Orange County Public Works will be a core component of the Project. The region has faced increasing challenges due to climate change and water scarcity, including a multi-year “exceptional” drought from 2014-2017 as categorized by the United States Drought Monitor. By developing the Plan, the District seeks to chart a course for a sustainable and resilient water supply, mitigating the impacts of these conditions.

MWDOC conducted a 2023 Orange County Water Reliability Assessment (OC Study), which concluded that under a hot/dry climate future (which recent evidence seems to suggest might be the current path), coupled with 15 percent mandatory water demand restrictions and the most optimistic future water supply assumptions (i.e., maximum levels of local and regional reuse, increased water use efficiency, new water transfers and storage, and implementation of the Delta Conveyance Project), MWD and Orange County region water shortages can still occur. Predicting a maximum water shortage in 2050 of 171,000 AFY for MWD and 40,000 AFY for all of Orange County, the OC Study recommends that Orange County water agencies like ETWD make investments in conservation and water reuse and quantifies the benefit of reducing water shortages as \$2,762 per AF².

² Escalated from 2021 to 2023 dollars by the consumer price index (CPI) inflation calculator.

RECOMMENDATION

Recommended Action:

Staff recommends that the Board of Directors adopt Resolution No. 23-10-1, authorizing the General Manager, or designee, to apply for, receive, and enter into a cooperative agreement, and administer a grant for the WaterSMART Planning and Project Design for FY 2023 and FY 2024.

RESOLUTION NO. 23-10-1

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE EL TORO WATER DISTRICT ("DISTRICT")
AUTHORIZING THE GENERAL MANAGER, OR DESIGNEE, TO APPLY FOR,
RECEIVE, ENTER INTO A COOPERATIVE AGREEMENT, AND ADMINISTER A
GRANT FOR THE WATERSMART PLANNING AND PROJECT DESIGN FOR
FISCAL YEAR (FY) 2023 AND FY 2024.**

RESOLUTION NO. 23-10-1

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE EL TORO WATER DISTRICT ("DISTRICT")
AUTHORIZING THE GENERAL MANAGER, OR DESIGNEE, TO APPLY FOR,
RECEIVE, ENTER INTO A COOPERATIVE AGREEMENT, AND ADMINISTER A
GRANT FOR THE WATERSMART PLANNING AND PROJECT DESIGN FOR
FISCAL YEAR (FY) 2023 AND FY 2024**

BE IT RESOLVED, by the El Toro Water District Board of Directors ("Board") that the District General Manager or his/her designee is hereby authorized and directed to sign and file, for and on behalf of the El Toro Water District ("District"), a WaterSMART: Planning and Project Design for FY 2023 and FY 2024 Grant Application for a grant from the Department of the Interior, Bureau of Reclamation, Water Resources and Planning Office in the amount not to exceed \$400,000; and

BE IT RESOLVED, the District General Manager, or his/her designee, is hereby authorized to acknowledge and approve of the application and the information submitted for consideration, and is further authorized to certify that the District has and will provide the amount of funding and/or in-kind contributions specified in the funding plan; and

BE IT RESOLVED, that the Board hereby agrees and further does authorize the aforementioned representative or his/her designee to certify that the District has and will comply with all statutory and regulatory requirements related to any grant funds; and

BE IT FURTHER RESOLVED, that the General Manager or his/her designee is hereby authorized to negotiate and execute a grant and any amendments or change order thereto on behalf of the District received and will work with Reclamation to meet established deadlines for entering into a cooperative agreement.

ADOPTED, SIGNED, AND APPROVED this 23rd day of October, 2023.

KAY HAVENS, President
El Toro Water District and the
Board of Directors thereof

ATTEST:

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



STAFF REPORT

To: Board of Directors

Meeting Date: October 23, 2023

From: Rory Harnisch, Senior Engineer

Subject: Mathis Lift Station Inlet Piping Improvement Project

BACKGROUND

In May 2023 while attempting to remove a blockage from the inlet drop pipe section at the Mathis Lift Station (Mathis), District staff noticed a pipe section break at the entrance to the wet well, as shown in Figure 1. In addition, sewage cleaning equipment became stuck during District attempts to remove the blockage. As shown in Figure 2, the piping around Mathis does not include any cleanouts that would facilitate removal of the equipment. Sewage flow can continue around the blockage and equipment into the wet well, and the inlet pipe's concrete encasement prevents the broken pipe from actively spilling; but the District needs to implement a solution to repair the compromised inlet.



Figure 1 – Camera footage of inlet drop pipe section viewed from above

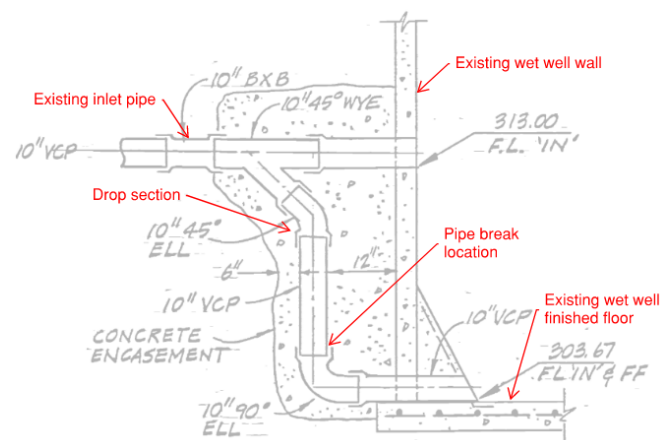


Figure 2 – Record drawing of inlet pipe section

District staff brainstormed solutions internally, reached out to a contractor, J. R. Filanc Construction (Filanc), for constructability assistance, and ultimately decided to hire a consultant, Dudek, to design a repair solution. Challenges include lack of adequate space between the existing wet well and Mathis enclosure wall, need for bypass pumping across Paseo de Valencia, and coordination with both the City of Laguna Hills and County of Orange for sidewalk and bike lane, respectively. The initial design involved installing two additional manholes and a new inlet drop pipe section, as shown in Figure 3, for a total project cost of approximately \$300,000.

Mathis Lift Station Inlet Piping Improvement Project Page 2

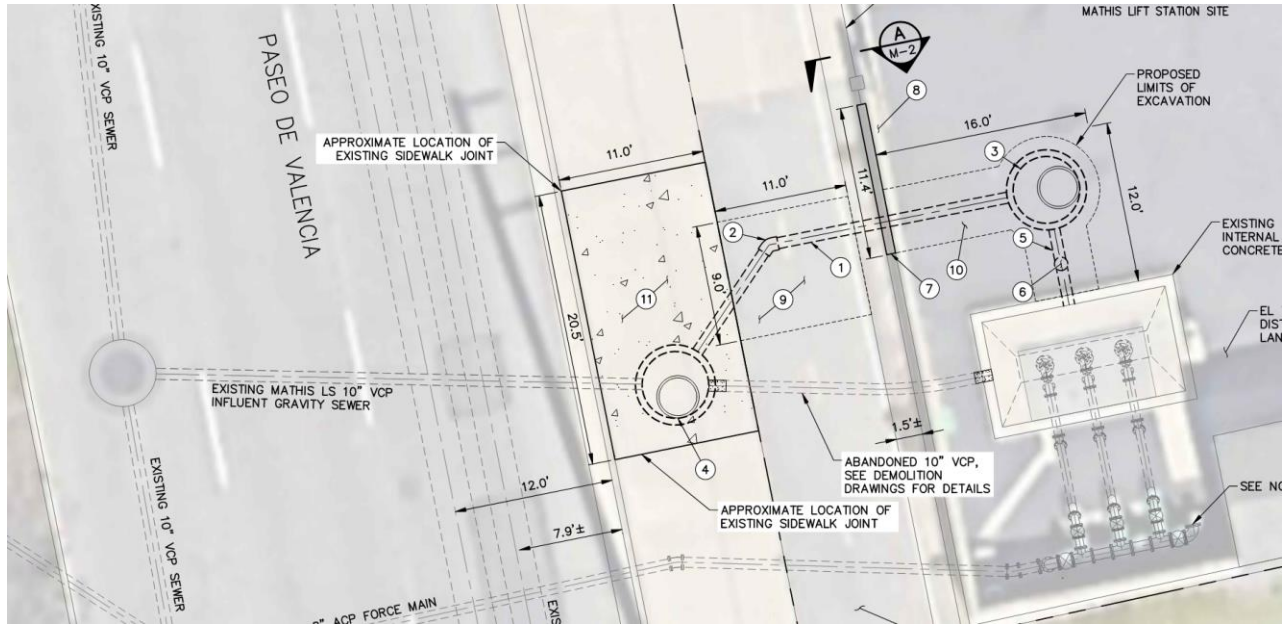


Figure 3 – Initial design alternative

Because costs were higher than anticipated, staff conducted a value engineering exercise and developed an alternative design that significantly reduces cost. This alternative would install a drop section on the inside of the wet well, plug the existing drop-section penetrations, and install a Cured-in-Place-Pipe lining from the existing upstream manhole in the street up to the wet well, as shown in Figure 4.

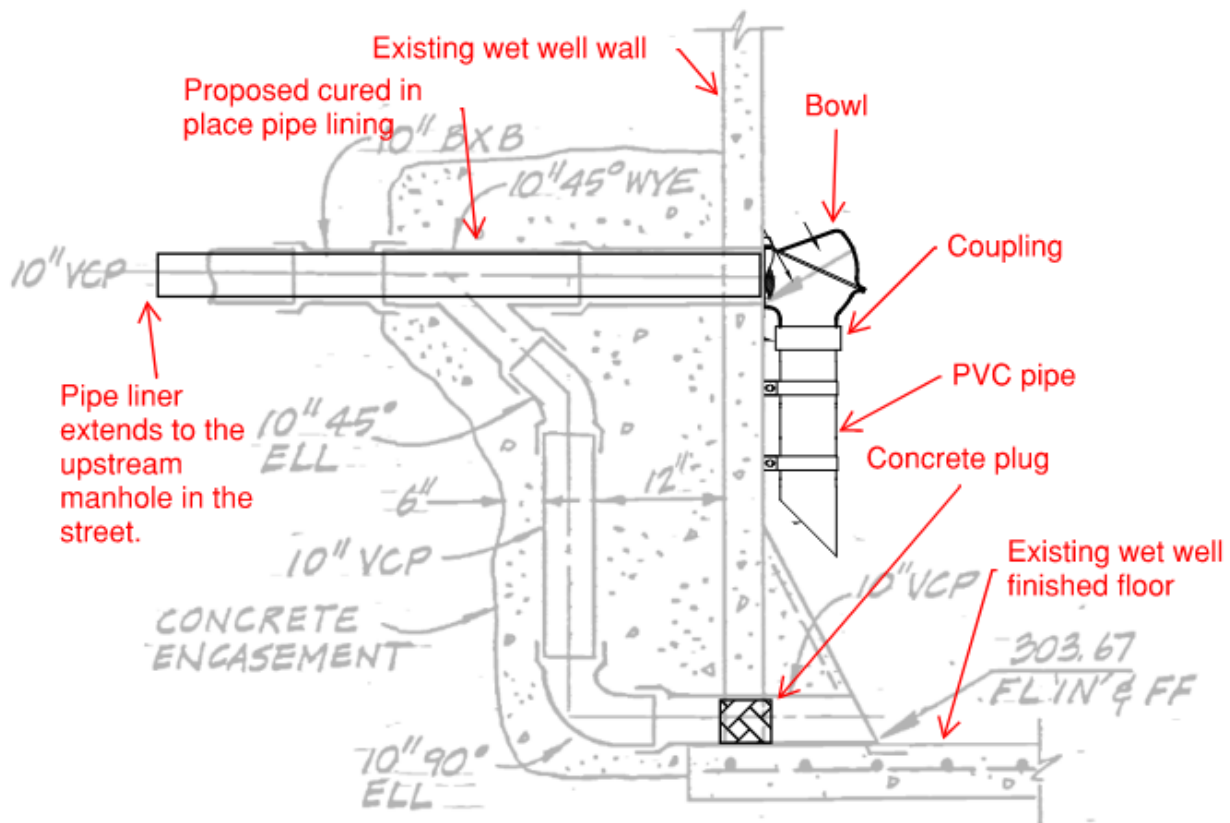


Figure 4 – Final design alternative

COST EVALUATION

District staff received a quote from a contractor, Tunnel Works Inc, (TWS) to perform all work activities for a cost of \$33,510 while the District pre-purchases the bowl and pipe. The District has extensive successful experience with TWS on previous sewer collection system repair projects. Table 1 summarizes the total project costs, which include engineering services for the original design Dudek. Because this project serves to address an emergency repair, it was not budgeted in the FY 2023/24 CIP Budget.

Table 1 – Mathis Lift Station Inlet Improvements Total Project Cost

Project Element	Total Cost
Bowl and PVC drop pipe and coupling	\$1,000.00 ¹
TWS (Construction)	\$33,510.00
Construction Contingency (10%)	\$3,351.00
Sub Total	\$37,861.00
Dudek (Design)	\$26,759.25
Total	\$64,620.25

¹Cost includes a quote from bowl manufacturer and estimation of PVC pipe with coupling.

CEQA

District staff prepared and filed a Class 1 Categorical Notice of Exemption with the County because the work only includes minor alteration of existing facilities without an increase in capacity. State CEQA Guideline Section 15301 provides exemption for existing facilities where the improvements and upgrades are negligible with no expansions of existing use. The 30-day public comment period started Thursday, October 19th and will expire on November 17th. TWS will commence construction after November 17th and will complete all activities over the course of two nights.

RECOMMENDATION

Recommended Action:

Staff recommends that the Board of Directors authorize the General Manager to issue a contract to Tunnel Works, Inc in the amount of \$33,510 for construction of the Mathis Lift Station Inlet Piping Improvement 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.

AB 1572

Nonfunctional Turf

ETWD Engineering & Finance Meeting
Sherri Seitz, Public Affairs Manager
October 23, 2023



AB 1572

- Governor signed Oct. 13, 2023
- Prohibits the use of potable water to irrigate non-functional turf on CII Properties
- Excludes turf irrigated by recycled water
- Includes HOAs and common interest developments
- Excludes multifamily residential properties and cemeteries
- Exception made for tree health



Photo source: KTXL-Sacramento



AB 1572

- Does not apply to single family residential properties



Photo source: BBC News

B B C NEWS

AB 1572

DEFINITIONS

- **Common Area** = area that is not assigned for exclusive use of the occupants of an individual dwelling unit within the property
- **Recreational Use Area** = area designated by a property owner or a governmental agency to accommodate human foot traffic for recreation, including sports fields, golf courses, playgrounds, picnic grounds or pet exercise areas



Photo source: City of Aurora



AB 1572

DEFINITIONS

- **Functional Turf** = a ground cover surface of turf located in a recreational use area or community gathering space
- **Nonfunctional Turf** = any turf that is not functional turf, and includes turf located within streets rights-of-way and parking lots



Photo courtesy of FindHOALaw

Disadvantaged Communities (DAC) and Severely Disadvantaged Communities (SDAC)

- **Bill requires a regional plan to address water-related needs of disadvantaged communities and owners and occupants of affordable housing**
- **DAC/SDAC within ETWD Service Area**
 - 17.3% DAC
 - 37.3% SDAC
 - Total 54.6%

COMPLIANCE TIMELINE

All Public Properties: State Agencies Local Governments Local or Regional Public Agencies Public Water Systems	January 1, 2027
All CII properties	January 1, 2028
HOA and similar common area properties	January 1, 2029
Disadvantaged Community (DAC) public properties	January 1, 2031

AB 1572

COMPLIANCE

- A public water system, city, county, **MAY** enforce the regulations
- January 1, 2027
 - Public water systems must revise regulations, ordinances or policies governing water service
 - Communicate new revisions to customers on or before that date



Photo by MET



AB 1572

COMPLIANCE

- **June 30, 2030**
 - **Self-certification of compliance for all CII properties with > 5,000 square feet of irrigated area to the SWRCB every 3 years**
- **June 30, 2031**
 - **Self-certification of compliance for all HOA and similar properties with > 5,000 square feet of irrigated area to the SWRCB every 3 years**



NON-COMPLIANCE

- **Shall be subject to civil liability and penalties imposed by an urban retail water supplier pursuant to their locally adopted ordinance or policy**
- **State to use funds appropriated for water conservation for turf replacement, prioritize financial assistance for nonfunctional turf replacement to public water systems serving disadvantage communities and to owners of affordable housing**

AB 1572

Questions?



Proposed Making Conservation a California Way of Life Regulation

Water Use Efficiency Regulatory Updates

ETWD Engineering & Finance Committee Meeting
Vu Chu, Water Use Efficiency Analyst
October 23, 2023



Regulation History

- **2009: Senate Bill X7-7**
 - 20% by 2020
- **2016: Governor Brown issued Executive Order B-37-16**
- Titled “Making Conservation a California Way of Life”
- **2018: SB 606 and AB 1668**
 - Implementation of Making Conservation a California Way of Life
- **2022: DWR recommendations released in Fall 2022**
- **2023: Draft regulation from SWRCB released & commencement of the rulemaking process**

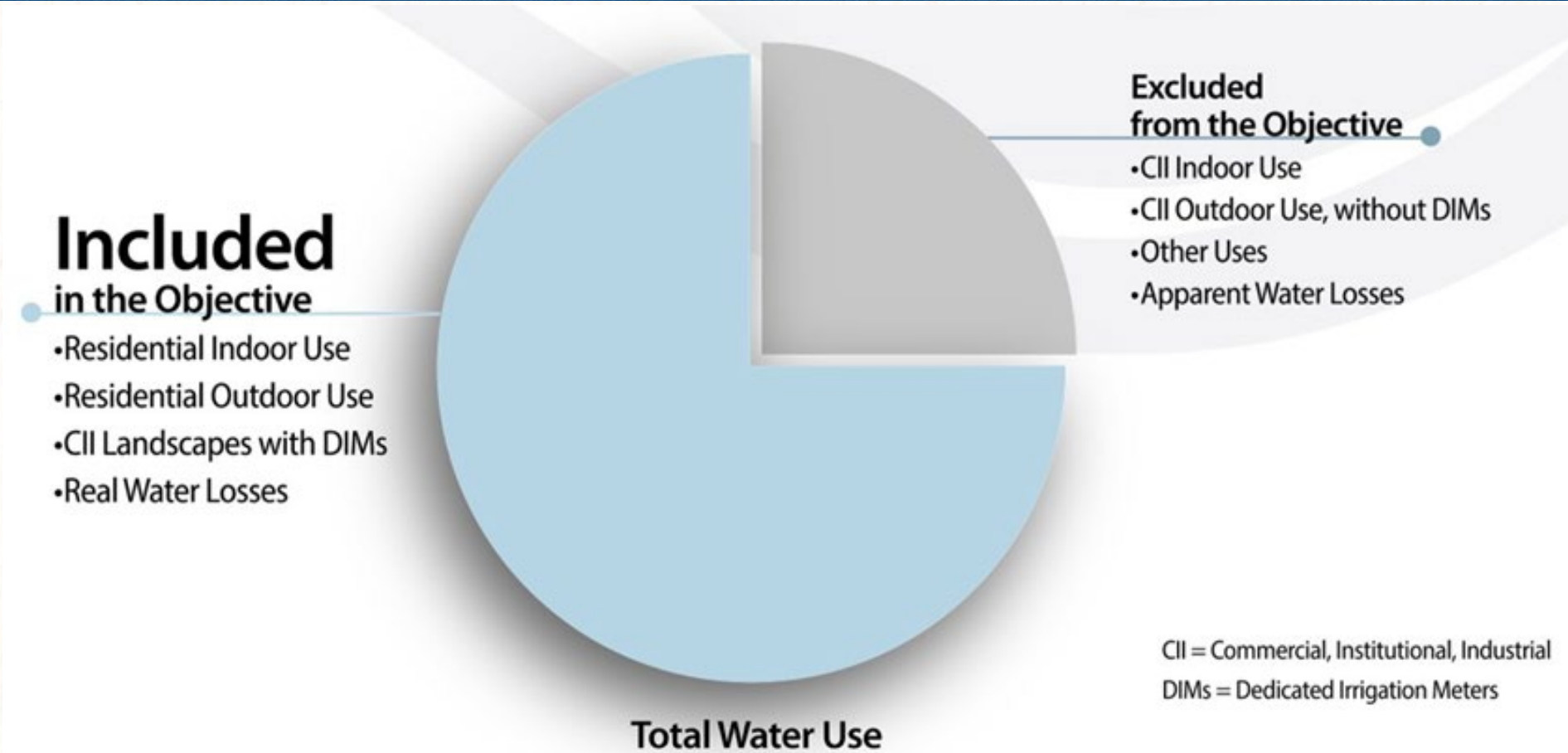


Proposed Regulation

- **Urban Retail Water Suppliers**
 - More than 400 suppliers that provide water to 95% of CA
- **Calculate and comply with objectives**
 - Urban Water Use Objectives
- **Carry out CII Performance Measures**
- **Annual reporting**



Urban Water Use Objective

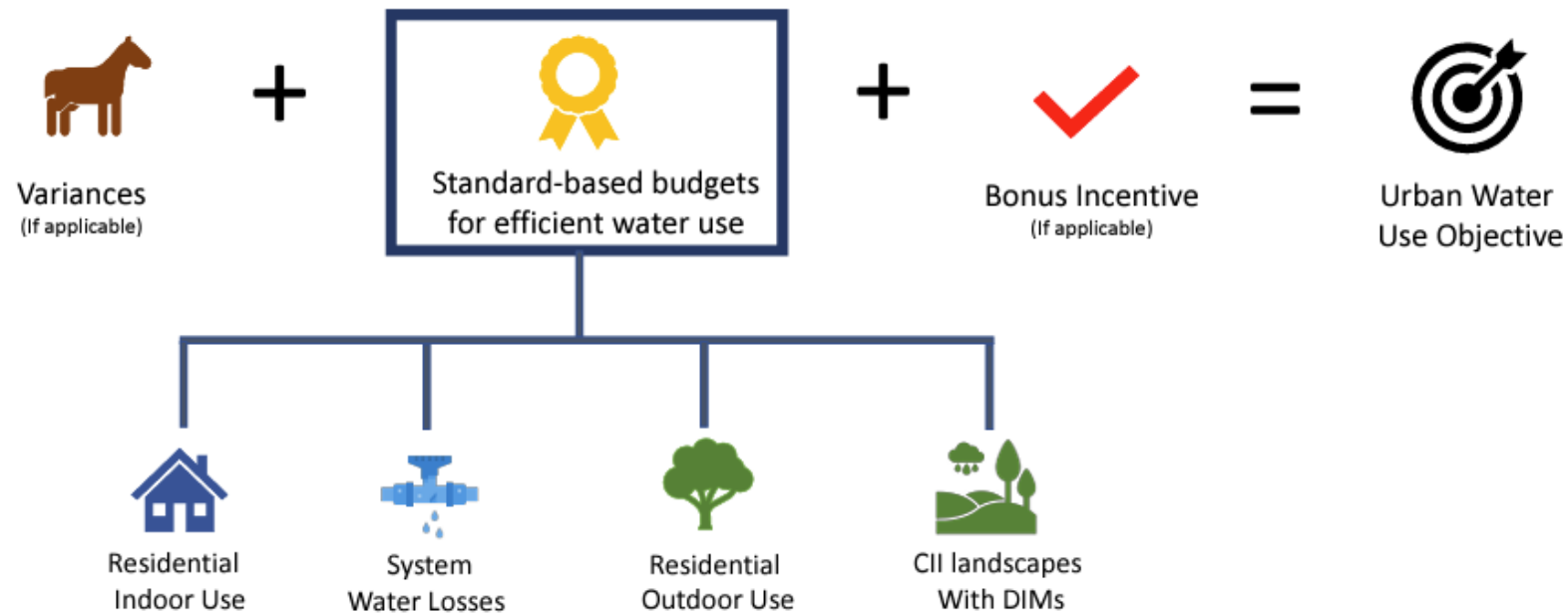


Source: SWRCB

Urban Water Use Objective

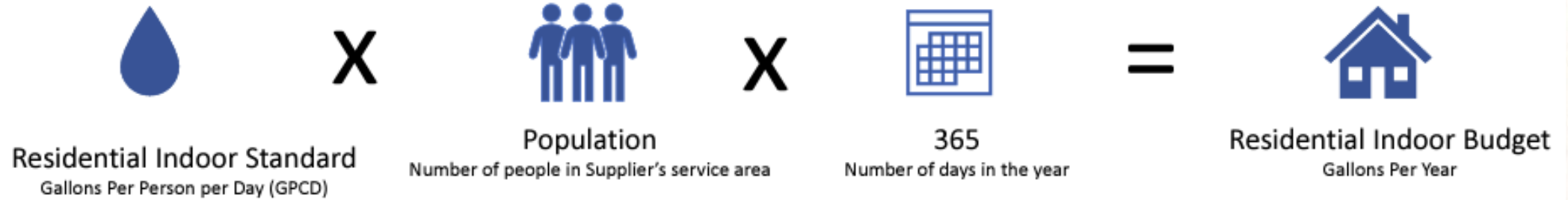
Basic Formula for Calculating Objectives

To be based on efficiency standards and supplier-specific data



Source: SWRCB

Residential Indoor Budget



The diagram illustrates the formula for calculating the Residential Indoor Budget. It consists of four main components connected by mathematical operators:

- Residential Indoor Standard**: Represented by a water drop icon. The unit is Gallons Per Person per Day (GPCD).
- Population**: Represented by an icon of three people. The unit is Number of people in Supplier's service area.
- 365**: Represented by a calendar icon. The unit is Number of days in the year.
- Residential Indoor Budget**: Represented by a house icon. The unit is Gallons Per Year.

The formula is: Residential Indoor Standard \times Population \times 365 = Residential Indoor Budget.

Source: SWRCB

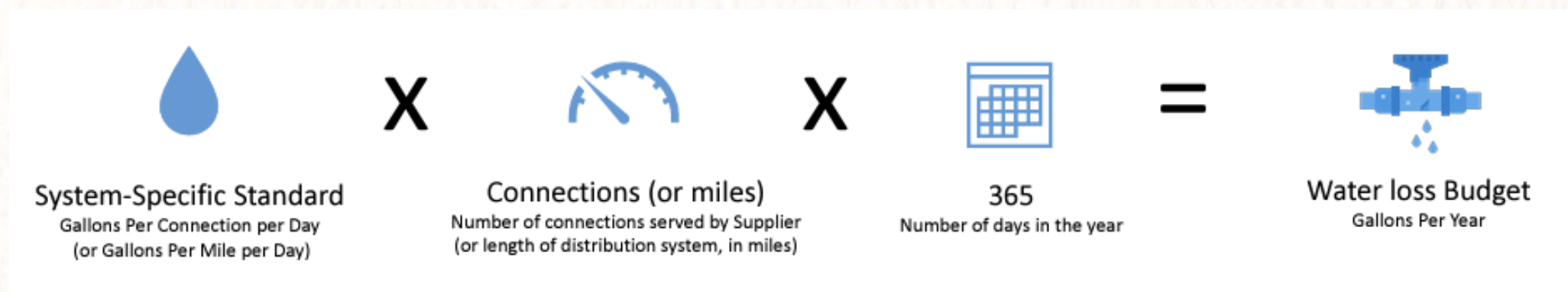
- **Indoor standards passed by legislature SB 1157 in 2022**

Through December 2024: 55 GPCD

From January 1, 2025 – December 31, 2029: 47 GPCD

January 1, 2030 – Onwards: 42 GPCD

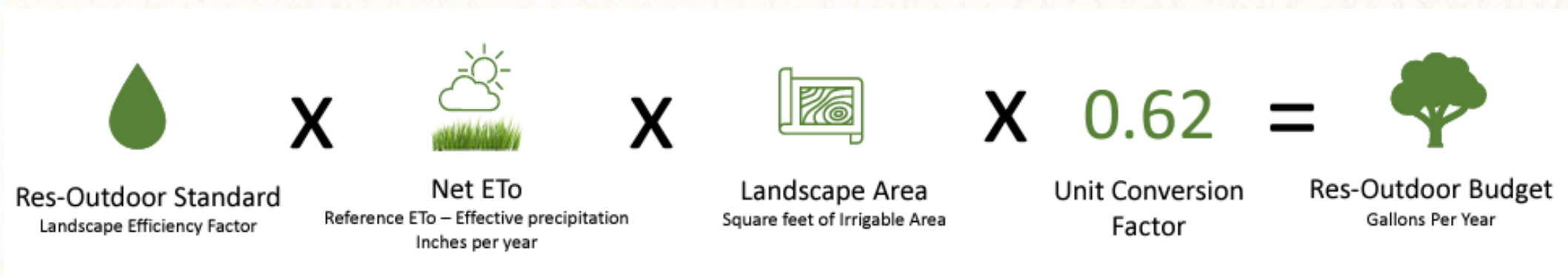
Water Loss Budget



Source: SWRCB

- **Established through Rule Making process required by SB 555 in 2022**
ETWD's water loss standard – 24.3 GPCD

Residential Outdoor Budget



Source: SWRCB

- **Residential Outdoor Standards**

Through June 30, 2030: 0.80 LEF

From July 1, 2030 – June 30, 2035: 0.63 LEF

July 1, 2035 – Onwards: 0.55 LEF

- **Irrigable Not Irrigated (INI) buffer: Up to 20% until 2027**

CII Landscapes with DIM Outdoor Budget



The diagram illustrates the formula for calculating the CII DIM-Outdoor Budget. It consists of the following components and their descriptions:

- CII DIM-Outdoor Standard** (Landscape Efficiency Factor): Represented by a green water drop icon.
- X**: Multiplication symbol.
- Net ET_o** (Reference ET – Effective precipitation Inches per year): Represented by a green sun and cloud icon over grass.
- X**: Multiplication symbol.
- Landscape Area** (Square feet of Irrigable Irrigated Area): Represented by a green map icon.
- X**: Multiplication symbol.
- 0.62** (Unit Conversion Factor): Represented by a green number.
- =**: Equals sign.
- CII DIM-Outdoor Budget** (Gallons Per Year): Represented by a green tree icon.

Source: SWRCB

- **CII Landscapes with DIM Outdoor Standards**

Through June 30, 2030: 0.80 LEF

From July 1, 2030 – June 30, 2035: 0.63 LEF

July 1, 2035 – Onwards: 0.45 LEF

- **Special Landscape Areas (SLAs): 1.0 LEF**

- Areas irrigated with RW water, public pools, engineered slopes, active – passive recreation, edible plants, and cemeteries.

CII Landscapes with DIM Outdoor Budget

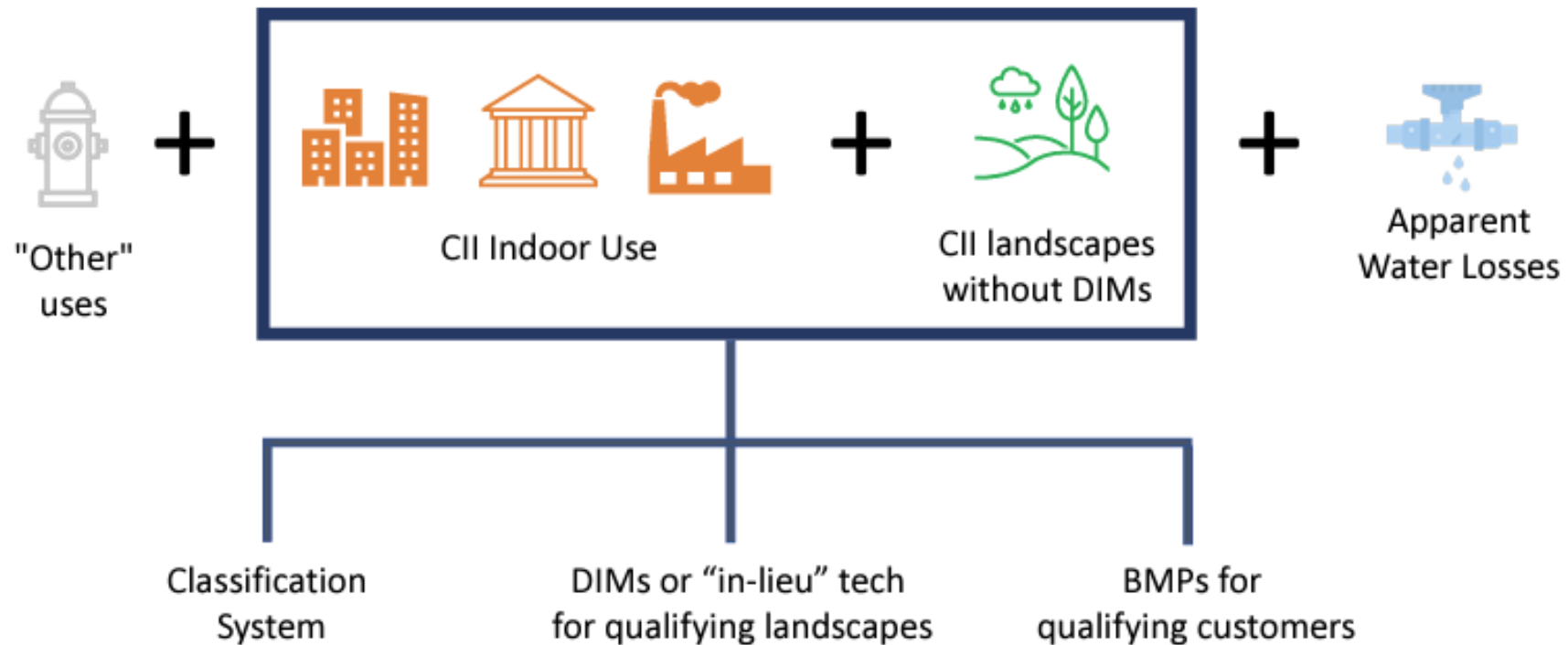

$$\begin{array}{ccccccc} \text{CII DIM-Outdoor Standard} & \times & \text{Net ET}_0 & \times & \text{Landscape Area} & \times & 0.62 = \text{CII DIM-Outdoor Budget} \\ \text{Landscape Efficiency Factor} & & \text{Reference ET – Effective precipitation} & & \text{Square feet of Irrigable Irrigated Area} & & \text{Gallons Per Year} \\ & & \text{Inches per year} & & & & \end{array}$$

Source: SWRCB

- **CII Landscapes with DIM – Landscape Area Measurement (LAM)**
 - **Through June 30, 2028**
 - Suppliers shall use actual deliveries associated with landscape irrigation from eAR
 - **Starting July 1, 2028**
 - Suppliers will use total Irrigated Irrigable (II) square footage for all Dedicated Irrigation Meters (DIMs)

CII Performance Measures

For CII demands excluded from the urban water use objectives



Source: SWRCB

CII Performance Measures

CII Performance Measure: Proposed Classification system

- Primarily broad categories in U.S. EPA's ENERGYSTAR Portfolio Manager tool
- Aligns with CEC's benchmarking program
- Already in use in California



Source: SWRCB

Classification Categories

1. Education
2. Entertainment/Public Assembly
3. Food Sales and Service
4. Healthcare
5. Lodging
6. Manufacturing/Industrial
7. Mixed Use Properties
8. Offices
9. Public Services
10. Religious Workshop
11. Retail
12. Services
13. Utility
14. Other
15. Laundry
16. Water Recreation
17. Vehicle Wash
18. CII DIM

Source: CalWEP



CII Performance Measures

CII Performance Measure: Proposal for DIMs or “in-lieu” tech for qualifying landscapes

- Threshold to determine which CII landscapes qualify
 - 500,000 gallons annually
- Defining "in-lieu" technologies
 - Hardware, software, actions



Source: SWRCB

CII Performance Measures

In-Lieu Technologies

In-Lieu technologies include at least two of the following:

1. Water budget-based rate structure
2. Water budget-based management program without a rate restructure
3. Hardware improvements with enhanced performance and functions
 - Including: metering technology that allow suppliers to identify outdoor water use, smart irrigation controllers, pressure-regulating sprinkler spray heads
4. Remote Sensing
5. Landscape plant palette transformation programs
6. Other water efficient technologies

Additional water management practices for large landscapes without DIMs include all of the following:

1. Communications
2. Irrigation systems maintenance
3. Irrigation scheduling

Source: CalWEP



CII Performance Measures

Performance Measure *Proposal for Best Management Practices (BMPs)*

- Disclosable Buildings
- Top 20% threshold
- Top 2.5% threshold
- Non-functional turf



- **AB 1572 compliance timeline**

Source: SWRCB

CII Performance Measures

The 5 CII BMPs Categories

1. Outreach, Technical Assistance, and Education BMP

Examples: workshops, advertisements, phone calls/visits

2. Incentive BMP

Examples: rebates/cost-sharing for fixtures, certification programs

3. Landscape Programs BMP

Examples: irrigation check ups, irrigation schedule training, turf removal program

4. Collaboration and Coordination BMP

Examples: Coordination with “green” building certification, collaboration with NGOs on outreach

5. Operational BMP

Examples: Smart meter replacement, billing procedures.

Source: CalWEP



Reporting Requirements

An urban retail water supplier shall submit an **Annual Water Use Report** to DWR that includes:

- ☐ Urban Water Use Objective (UWUO)
- ☐ Actual urban water use
- ☐ Documentation of the implementation of the **performance measures** for CII water use
- ☐ Description of the **progress made** towards meeting the urban water use objective
- ☐ Validated water loss audit report

DUE: January 1, 2024

- DWR has prepared an ***interim reporting template*** for the 2023 CY or 22/23 FY reporting period (Excel-based)

State Water Board has proposed suppliers also submit a report to the Board starting in 2025.

- Standardized reporting template(s) under development.

Source: CalWEP



What Happens Next?

Proposed rulemaking schedule

First public comment period

August 18 – October 17, 2023

Consideration for Adoption

Summer 2024

Rule becomes effective, if adopted

October 1, 2024

Source: SWRCB



State Board Enforcement – Timeline

Jan. 1, 2024

- The State Board may issue **informational orders** pertaining to water production, water use and water conservation to an urban retail supplier that does not meet its Urban Water Use Objective (UWUO).

Jan. 1, 2025

- The State Board may issue **written notices** to an urban retail supplier that does not meet its UWUO. May request that the supplier address areas of concern in its next annual report.

Jan. 1, 2026

- The State Board may issue a **conservation order** to an urban retail supplier that does not meet its UWUO.

Nov. 1, 2027

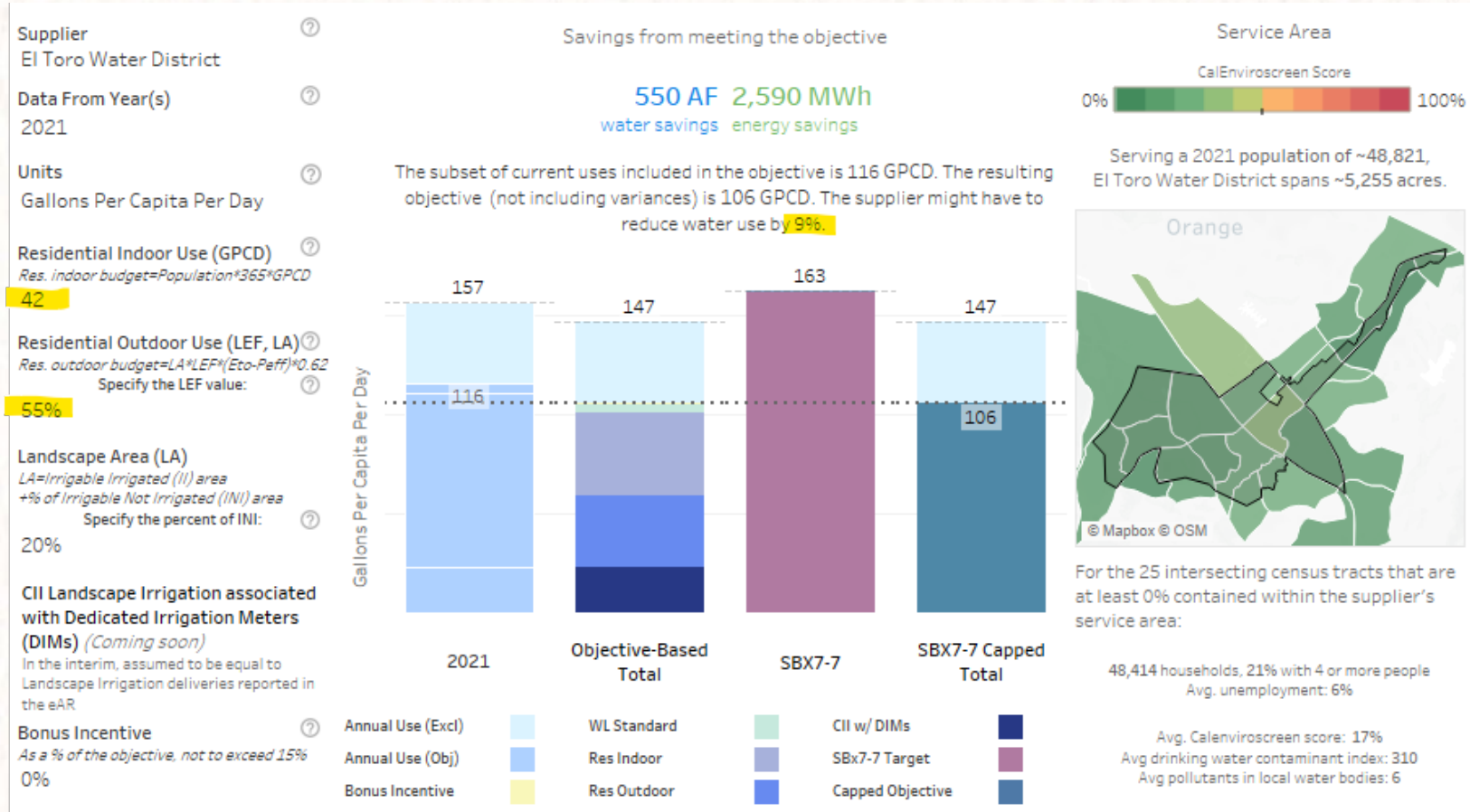
- The State Board may impose **civil liability** (fine) for a violation of the regulation

Source: SWRCB



Where We Stand

- 0% reduction by 2035
- Approximately 5% reduction beyond 2035 at 42 GPCD & 0.55 LEF
- Based on updated 51,800 population within ETWD's service area.



Source: SWRCB



ETWD Implementation Strategies

- **Comment Letter**
 - Submitted October 17, 2023
- **Data reconciliation**
 - Previously submitted data and future reporting
- **Conduct landscape area measurements for DIMs**
 - Especially delineation for Special Landscape Areas (SLAs)
 - Including reconciliation of Residential LAM data provided
- **CII landscape without DIMs in-lieu implementation**
- **CII BMPs implementation and reporting**



Thank You

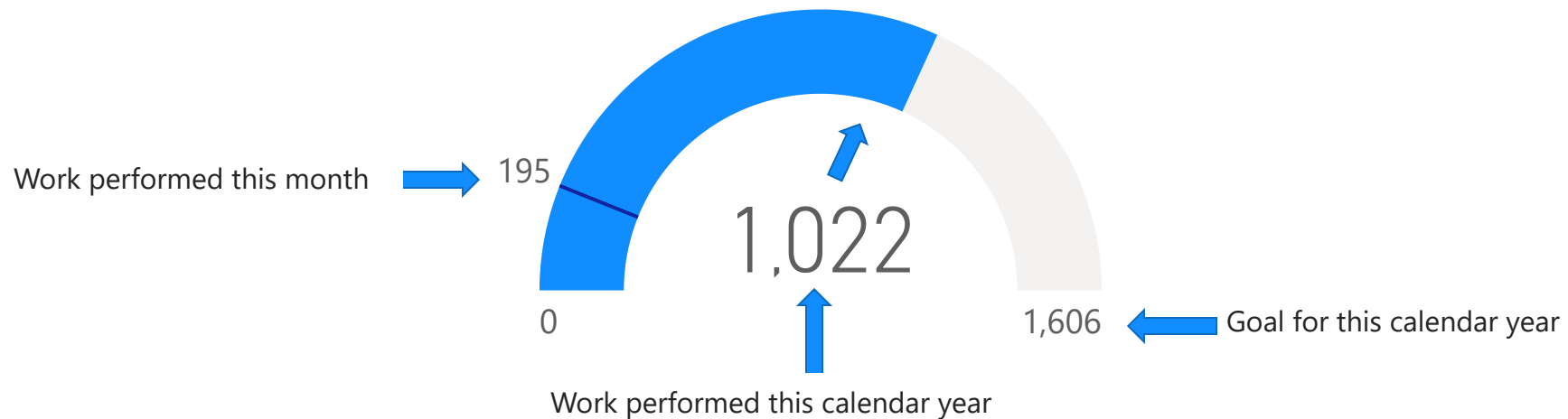




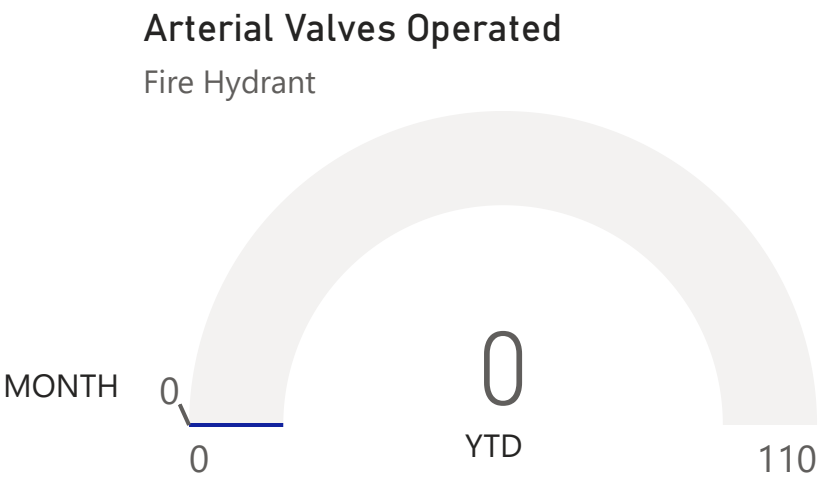
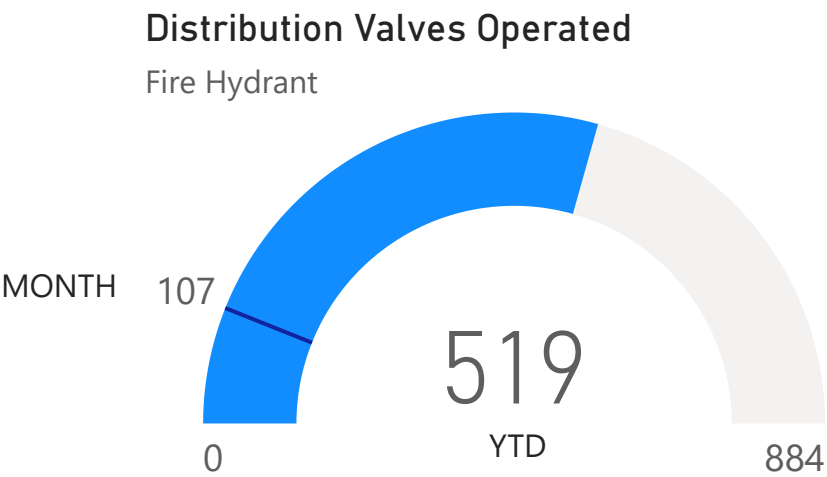
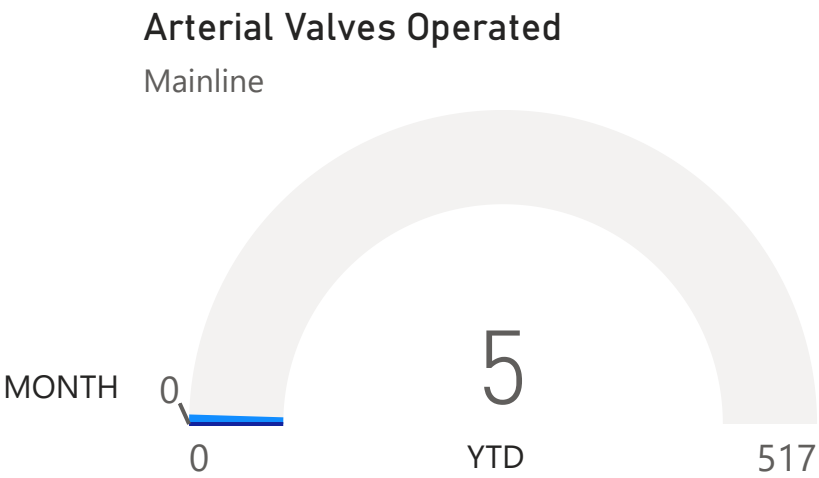
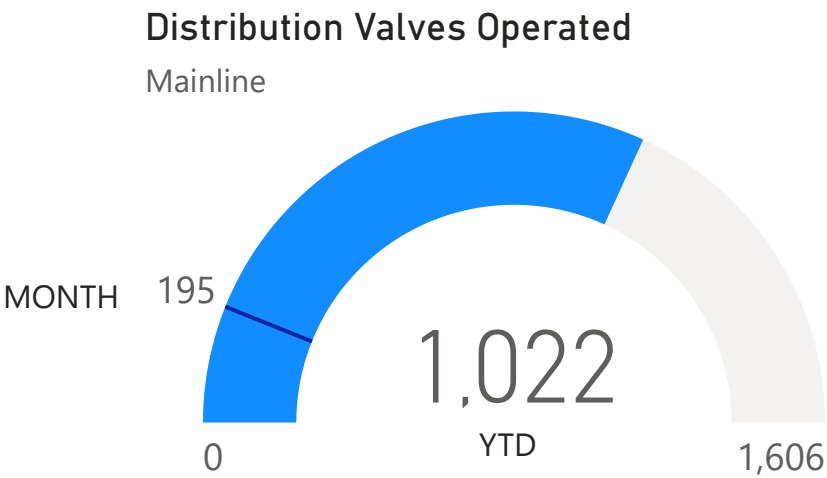
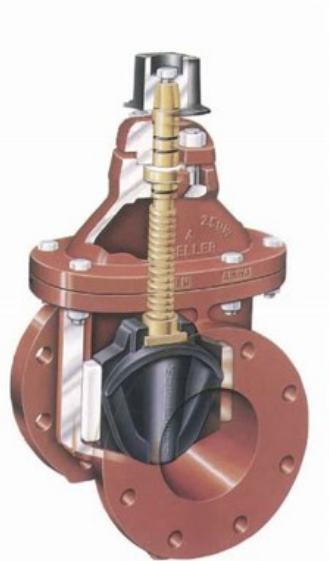
Operations Report

September 2023

How to read the graphics in this report:



Valves



Asset	Month	YTD
Potable Valves Repaired	0	9
Potable Valves Replaced	0	20
Valve Cans Adjusted/Replaced	0	38
Valve Cans Cleaned	0	421
Total	0	488

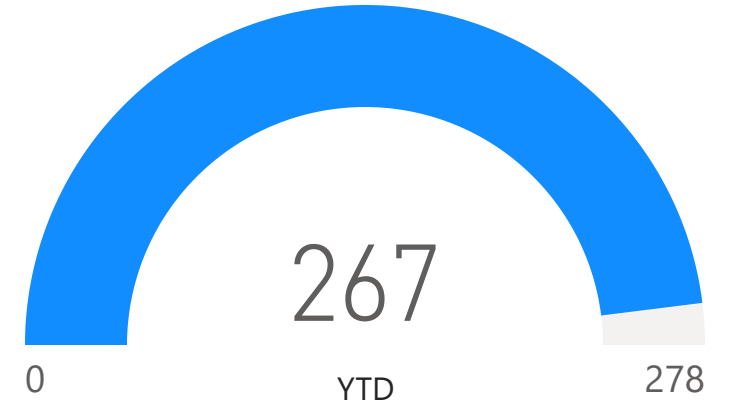
- Note:
- 1. The distribution valve operation program strives to operate all distribution valves (mainline and fire) every two years. Goals shown on this page represent that for the calendar year (i.e., total number of distribution valves divided by two).
 - 2. The arterial valve operation program strives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

111
Month

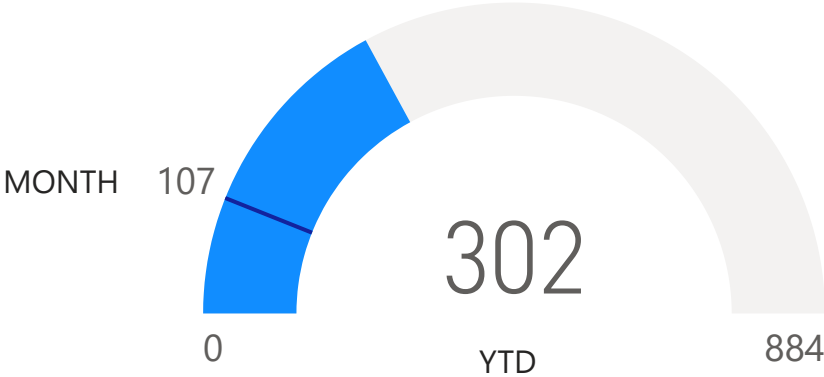
Underground Service Alerts Marked

1,402
YTD

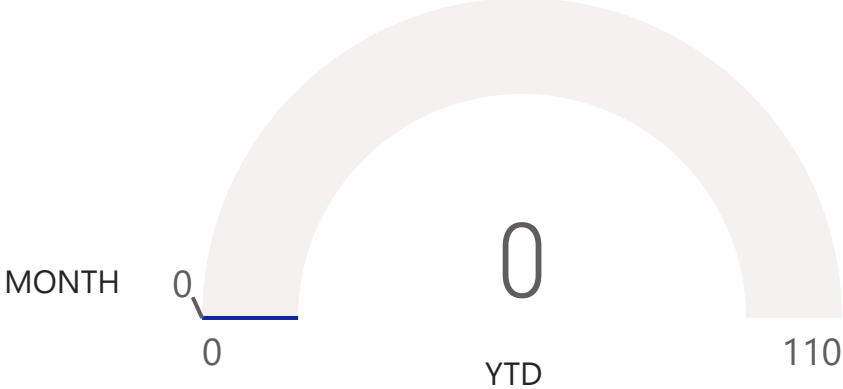
Fire Hydrants



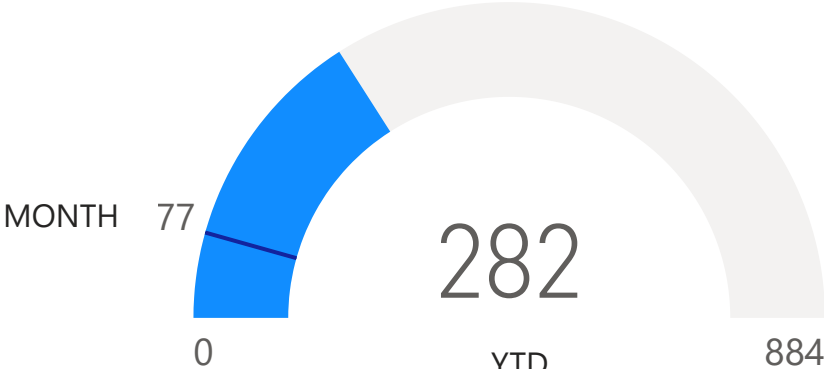
Distribution Hydrants Maintained



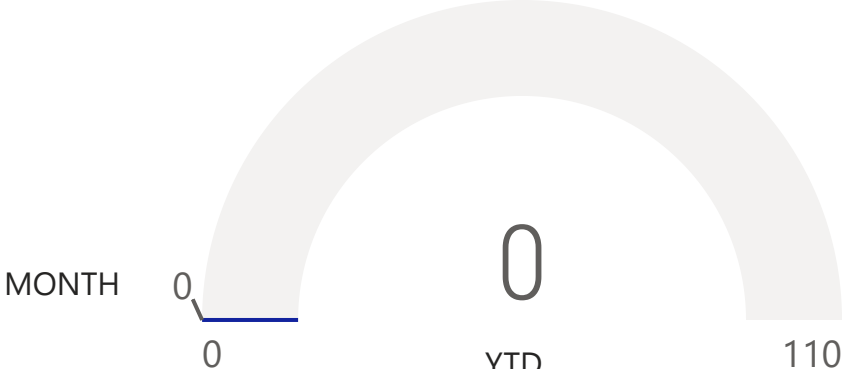
Arterial Hydrants Maintained



Distribution Hydrants Painted



Arterial Hydrants Painted



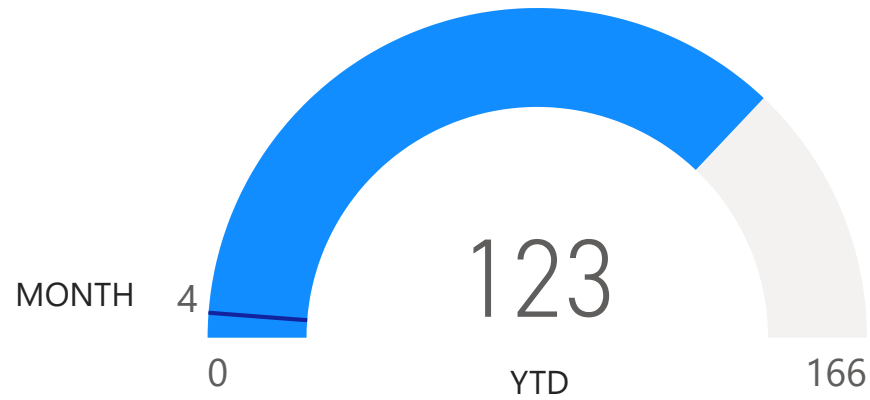
Asset	Month	YTD
Hydrants Repaired	3	8
Hydrants Replaced	2	14
Total	5	22

Note:

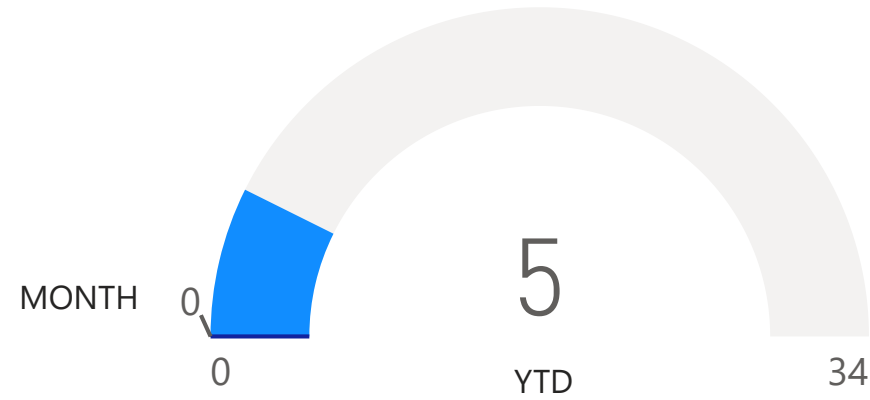
- 1. The distribution hydrant program strives to maintain and paint all distribution hydrants every two years. Goals shown on this page represent that for the calendar year (i.e., total number of distribution hydrants divided by two).
- 2. The arterial hydrant program strives to maintain and paint all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

Water Appurtenances

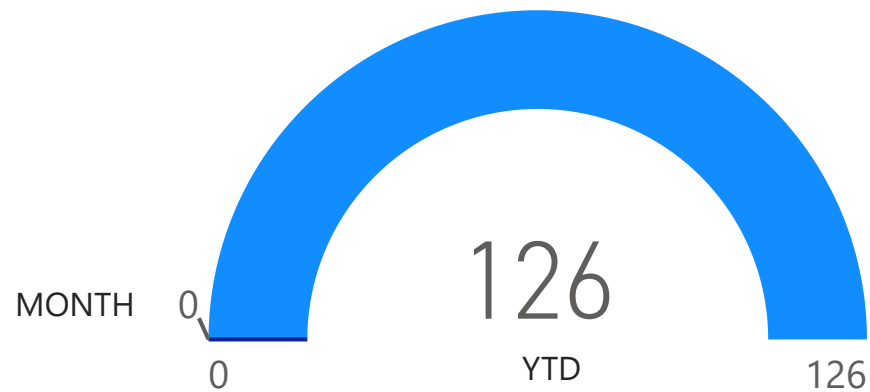
Air Vacs Maintained



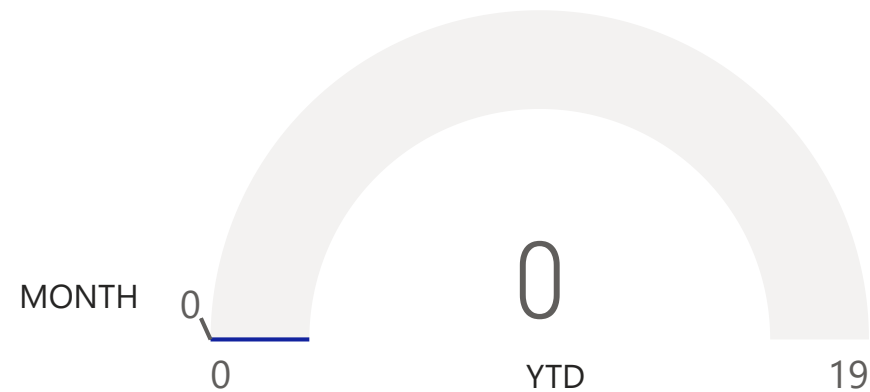
PRVs Maintained



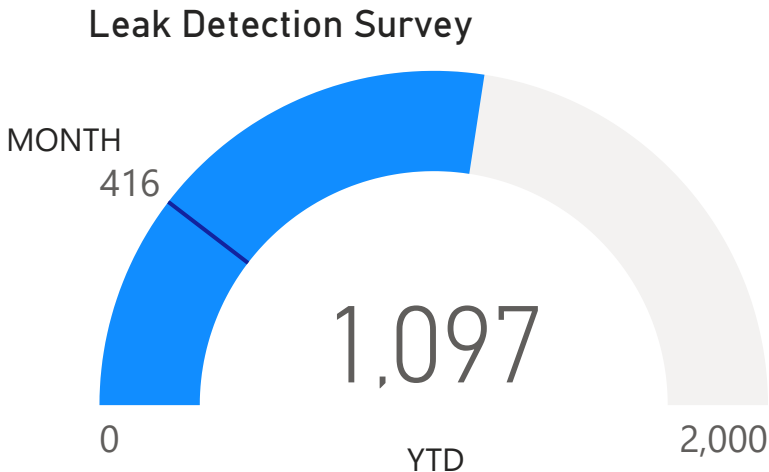
Blow Offs Flushed



Check Valves Maintained



Water Distribution System



Asset



	Month	YTD
Main Line Repairs	1	4
Service Line Repairs	1	7
Service Line Replacement	3	30
Water Pump Motor Services	0	3
Water Pump Services	0	0
Water Reservoir and Pump Station Inspections	92	873
Total	97	917



System Flushing
gallons

49K
Month

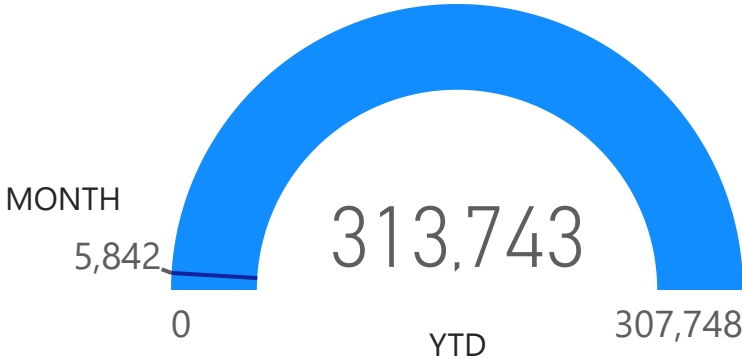


System Flushing
gallons

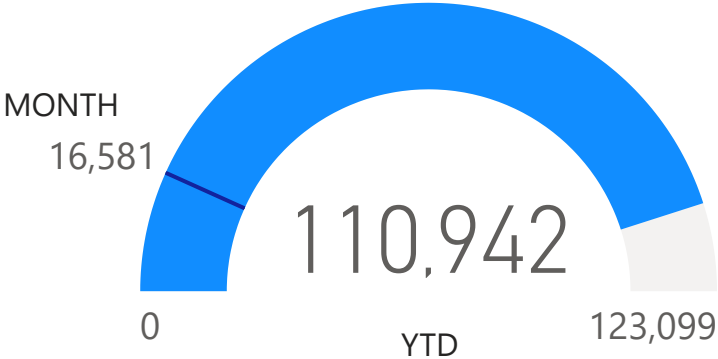
1M
YTD

Collection System

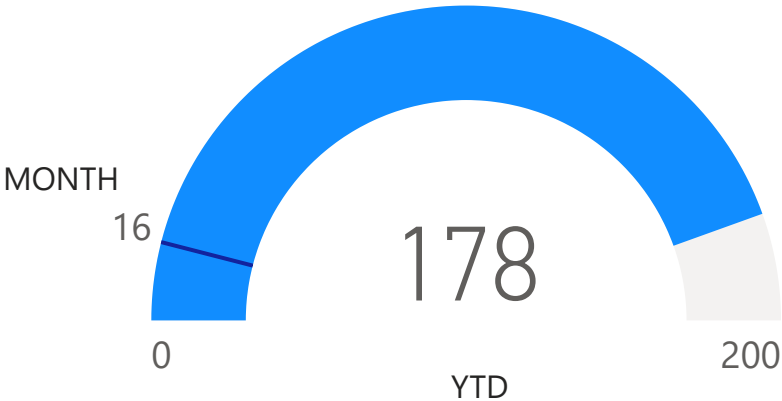
Line Cleaning
feet of pipe



TV Inspection
feet of pipe

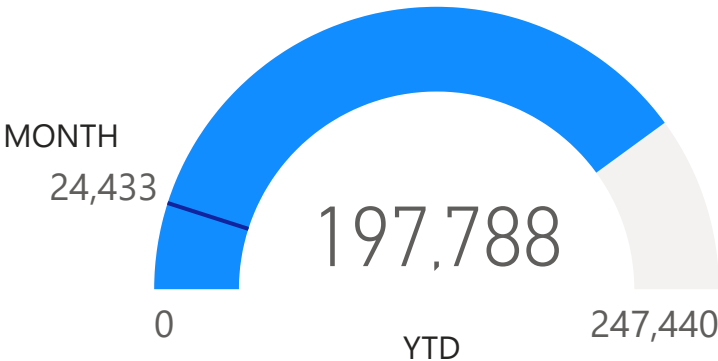


FOG Inspections



Asset	Month	YTD
Industrial Waste Inspections	6	151
Lift Station Inspections	82	804
Manhole Repairs	0	0
Odor Complaints	1	3
Root Cutting	0	0
Root Foaming	4,792	4,792
Sewer Mainline Repairs	0	1
Sewer Pump/Motor Maintenance	1	5
Sewer Service Line Repairs	0	3
Wet Well Cleaning	5	50
Total	4,887	5,809

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 2023**

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	Public	Secondary Treatment	WRP	Construction Project at WRP OOPS Pump station.	Spill was stopped at the pump station, the spill gate was closed, emergency pumps, and Vactor trucks were utilized to pump out the remaining spill within the plant.	Clean up area and replaced waddles and sand bags Pipe was repaired by contractor.	Region 8 and 9	First holding area of Veeh Reservoir/Veeh Reservoir	72,800 gallons	60,000 gallons	N/A	N/A	SOCWA, Office of Emergency Services, OCHD, OC Spill Response, RWQCB REG. 8, RWQCB REG. 9
September			No Spill										
LEGEND									72800	60000	0	0	
S.D.C = 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									

(WRP) Tertiary Treatment Plant

September-23

Total Recycled Water Production

Flow, Units	G.C. Irrigation	Main Distribution	WRP Irrigation/Utility	Total, Production
Avg. Daily Q, MGD	0.346	1.243	0.057	1.646
Total Q, MG	10.378	37.283	1.718	49.379
Total Acre Feet	31.849	114.417	5.272	151.538

Note: No Potable make-up water was used to supplement the demand for recycled water in September.



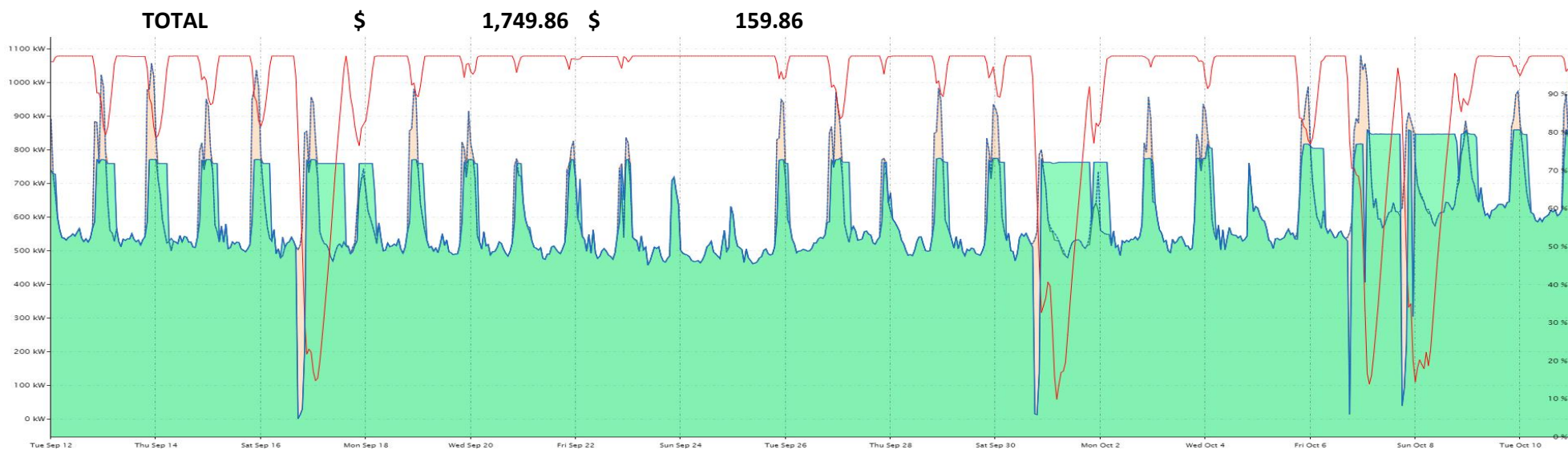
WRP BATTERY STORAGE SYSTEM

MONTHLY REPORT

September 2023

Year 5

BILLING PERIOD	BILL SAVINGS	NET SAVINGS
08/11/23 - 09/12/23	\$ 1,749.86	\$ 159.86



Sewerage Treatment Plant



23542 Moulton Pkwy, Laguna Woods, CA 92637

Savings Report - 2023-09

Aug 11, 2023 - Sep 12, 2023

SCE TOU 8 Option D (< 2kV)

Demand Charges	Before Storage		After Storage		Savings	
Maximum Demand Charges	1,182kW	\$25,277.82	1,162kW	\$24,846.62	20kW	\$431.20
Summer On-Peak	1,035kW	\$43,005.40	1,022kW	\$42,470.50	13kW	\$534.90
Sub-total		\$68,283.22		\$67,317.12		\$966.10
Energy Charges	Before Storage		After Storage		Savings	
Summer Mid-Peak	33,114kWh	\$5,545.61	11,210kWh	\$1,877.26	21,905kWh	\$3,668.35
Summer Off-Peak	384,254kWh	\$48,396.75	420,159kWh	\$52,919.01	(35,905)kWh	\$(4,522.26)
Summer On-Peak	64,455kWh	\$11,663.84	55,405kWh	\$10,026.16	9,050kWh	\$1,637.67
Sub-total		\$65,606.19		\$64,822.43		\$783.76
Other Monthly Charges	Before Storage		After Storage		Savings	
Customer and Other		\$353.69		\$353.69		\$ -
Sub-total		\$353.69		\$353.69		\$ -
Total	Before Storage		After Storage		Savings	
		\$134,243.10		\$132,493.24		\$1,749.86

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. If you have an outstanding performance guarantee term, any discrepancies identified are adjusted for differences and reflected in your true up term statement.

**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-logical 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:		September		YEAR : 2023	
CONSTITUENT ANALYSIS		INSIDE LAB		OUTSIDE LAB	
	MCL	NO.	RESULTS	NO.	RESULTS
1 Microbiological	Pres/Absence	129	Absence		Average
2 Chlorine (ppm) In Field	Detectable Resid	147	Average = 2.05 ppm		
3 TTHM (ppb) (Stage 2)	80 ppb			8	57.8 ppm
3 HAA5 (ppb) (Stage 2)	60 ppb			8	16.7 ppm
4 Physical Quality:			RANGE		
Turbidity (ppm)	5 NTU	20	0.01 to 0.09 Res.		
Odor	3 Units	20	ND<1		
Color	15 Units	20	ND<5		
Temperature	No standard	20	74°F To 84°F		
5 Nitrite (Alert/Action level) ppm	0.015 to 0.030 ppm	145	0.002 to 0.149		

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

MICROBIOLOGICAL MONITORING

September 2023

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

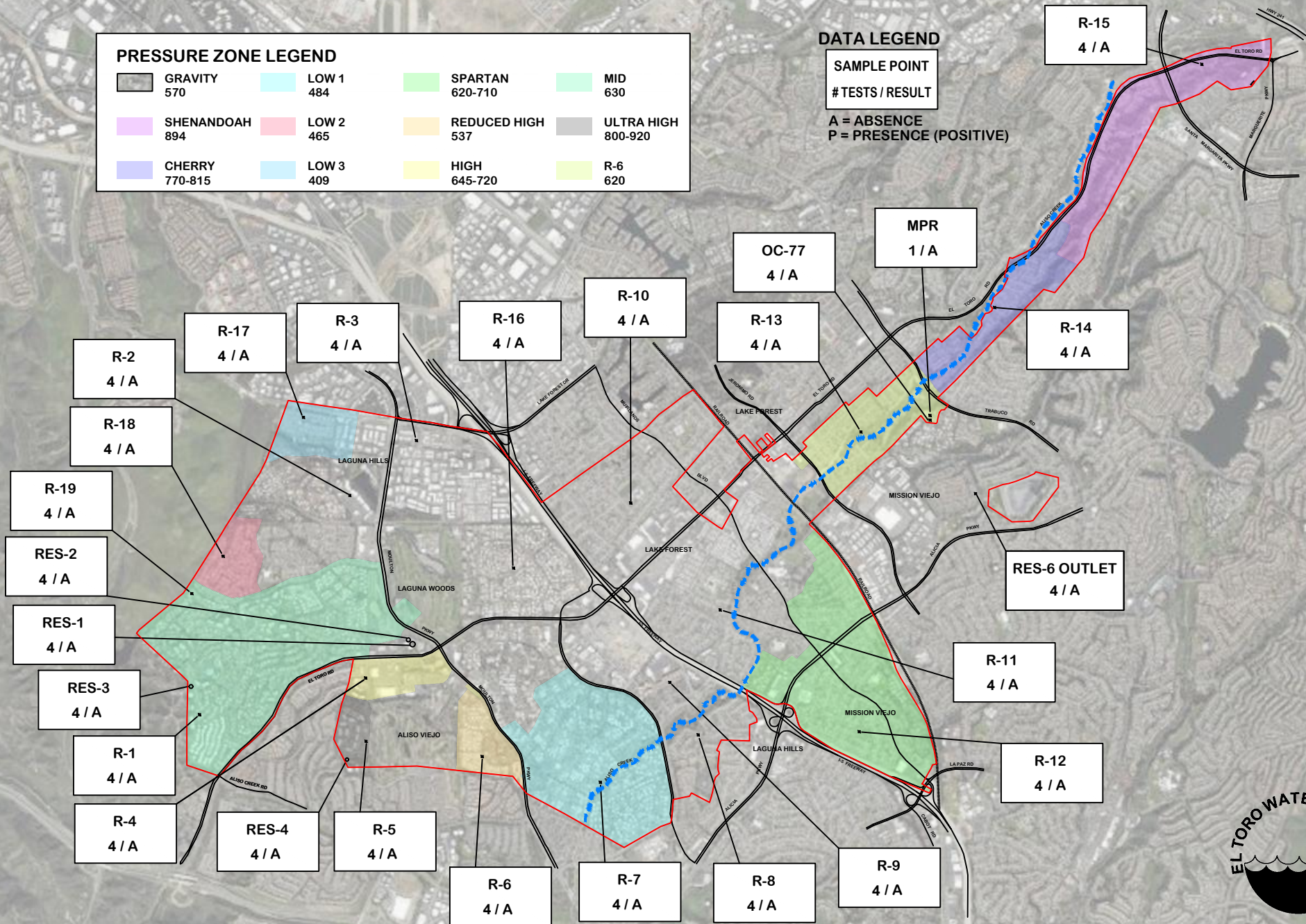
DATA LEGEND

SAMPLE POINT

TESTS / RESULT

A = ABSENCE

P = PRESENCE (POSITIVE)



CHLORINE RESIDUAL MONITORING

September 2023

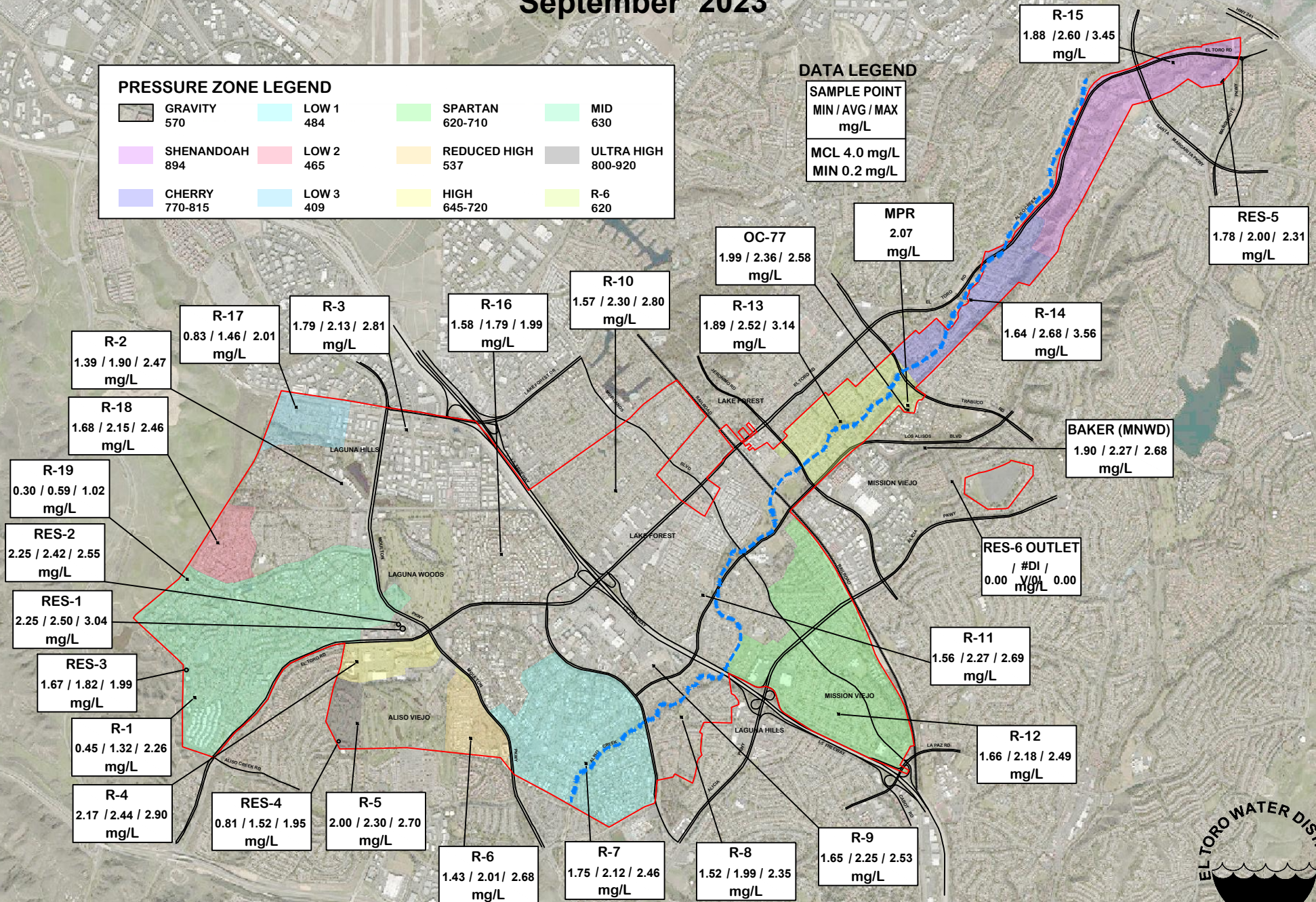
PRESSURE ZONE LEGEND

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



FLUORIDE MONITORING

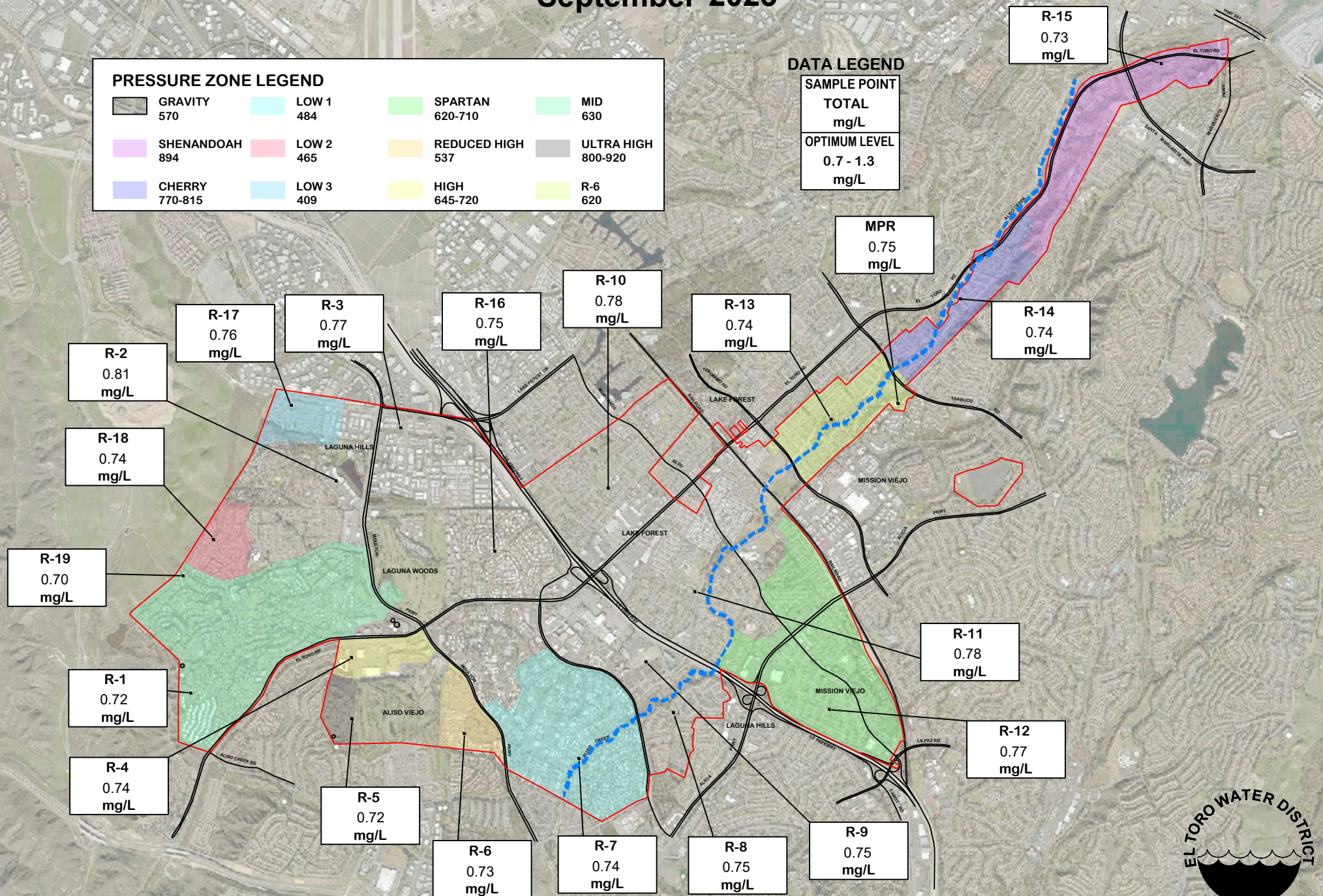
September 2023

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
TOTAL mg/L
OPTIMUM LEVEL 0.7 - 1.3 mg/L



NITRITE MONITORING

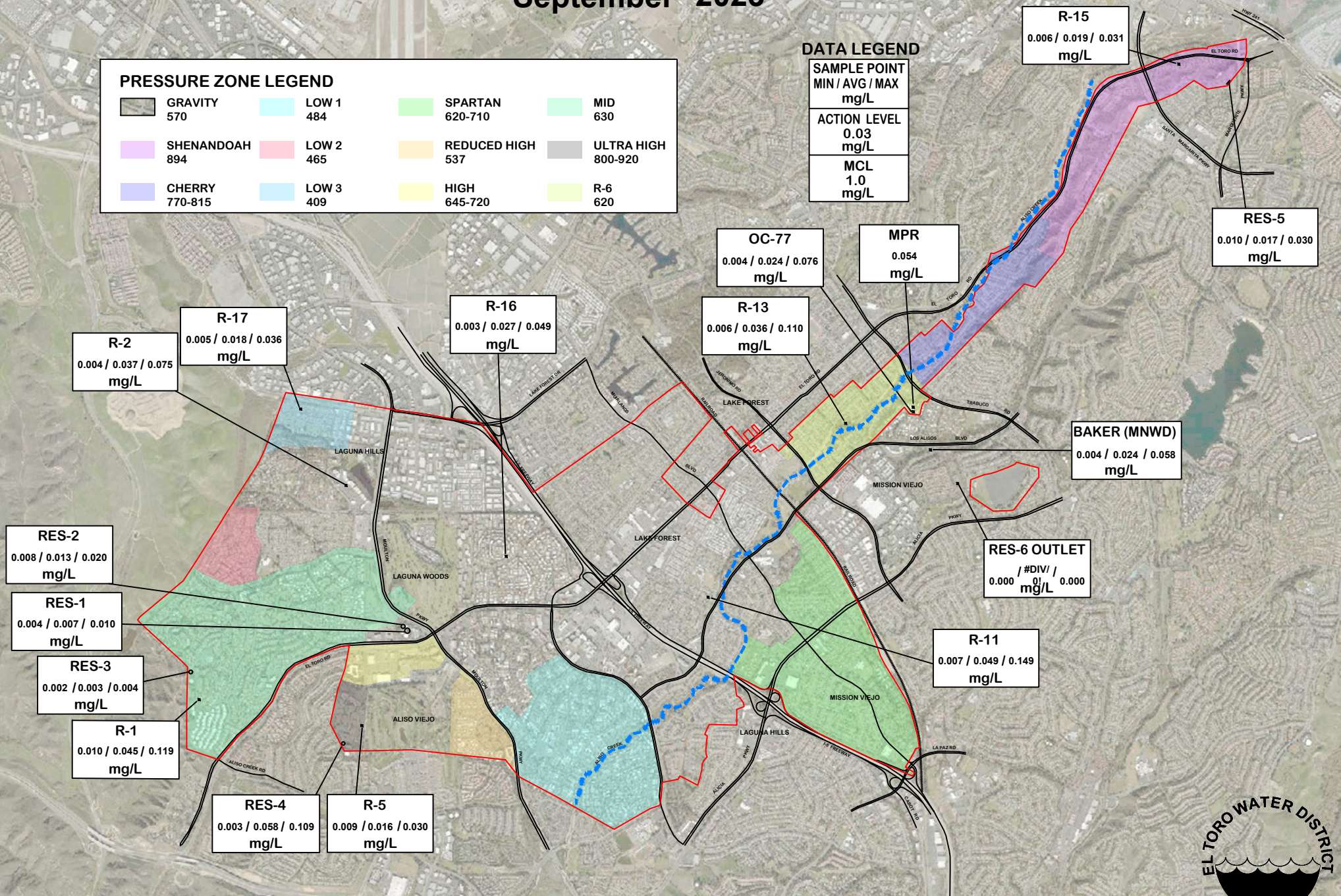
September 2023

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

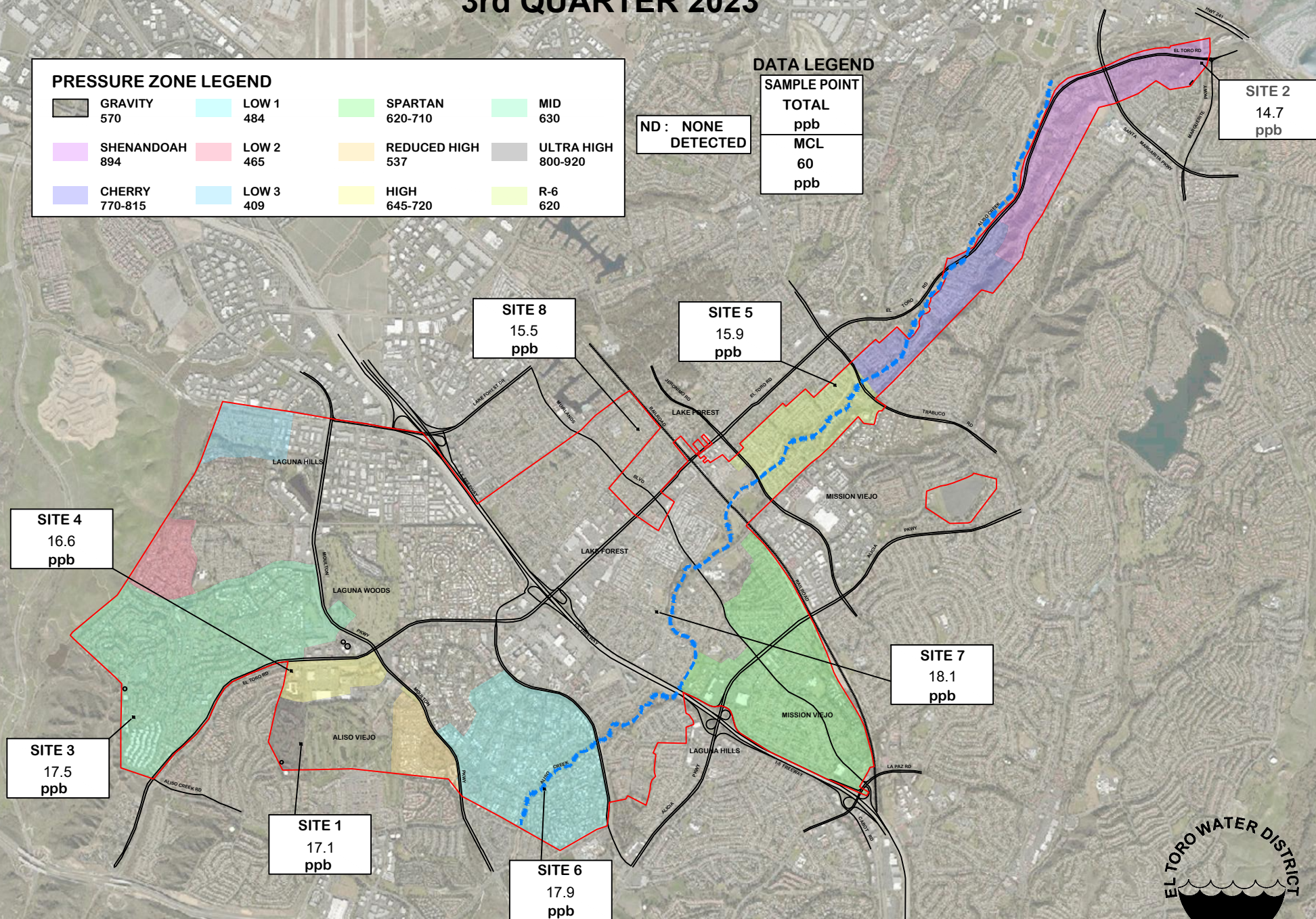
DATA LEGEND

SAMPLE POINT MIN / AVG / MAX mg/L
ACTION LEVEL 0.03 mg/L
MCL 1.0 mg/L



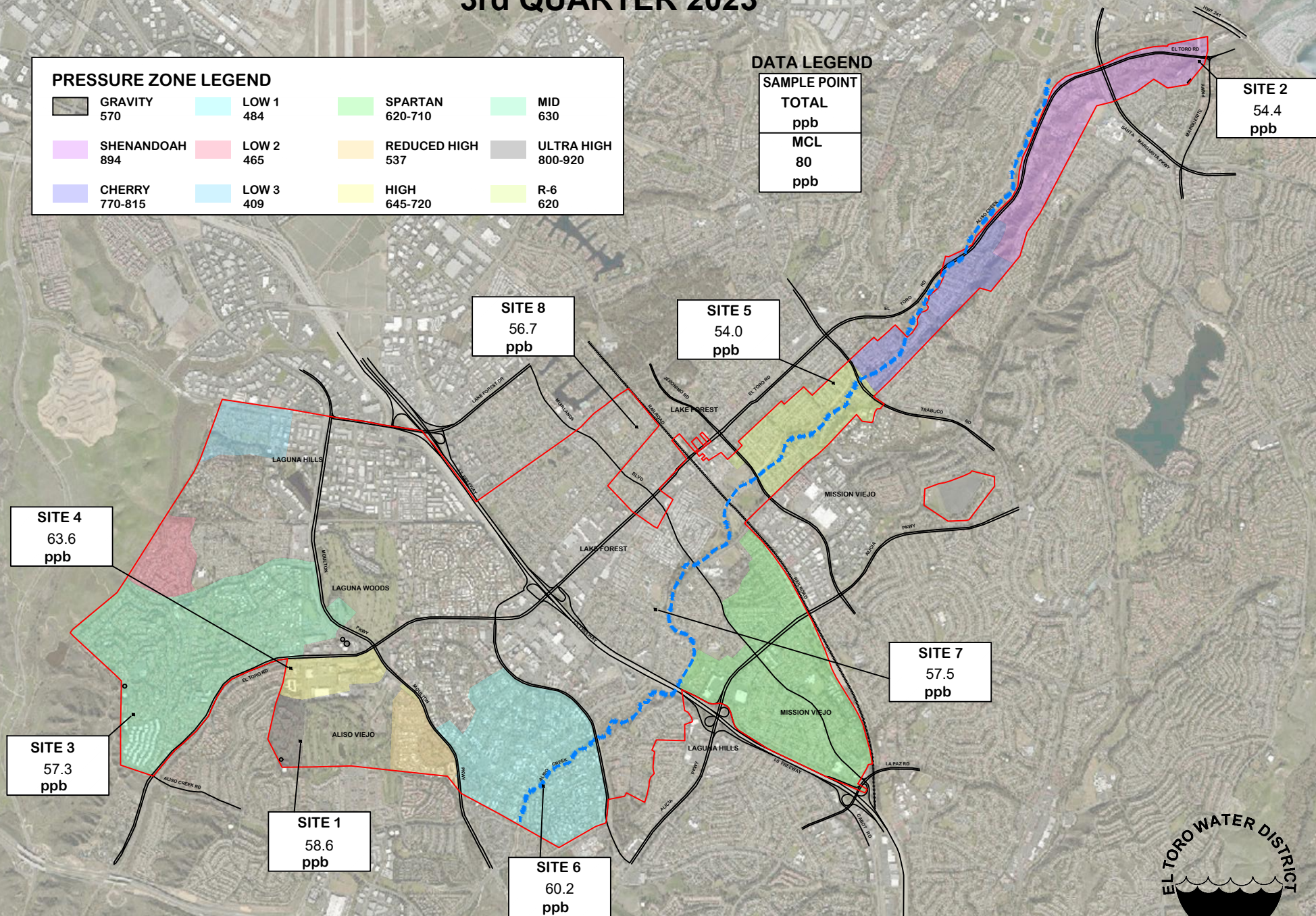
STAGE 2 HALOACETIC ACIDS (HAA5) MONITORING

3rd QUARTER 2023



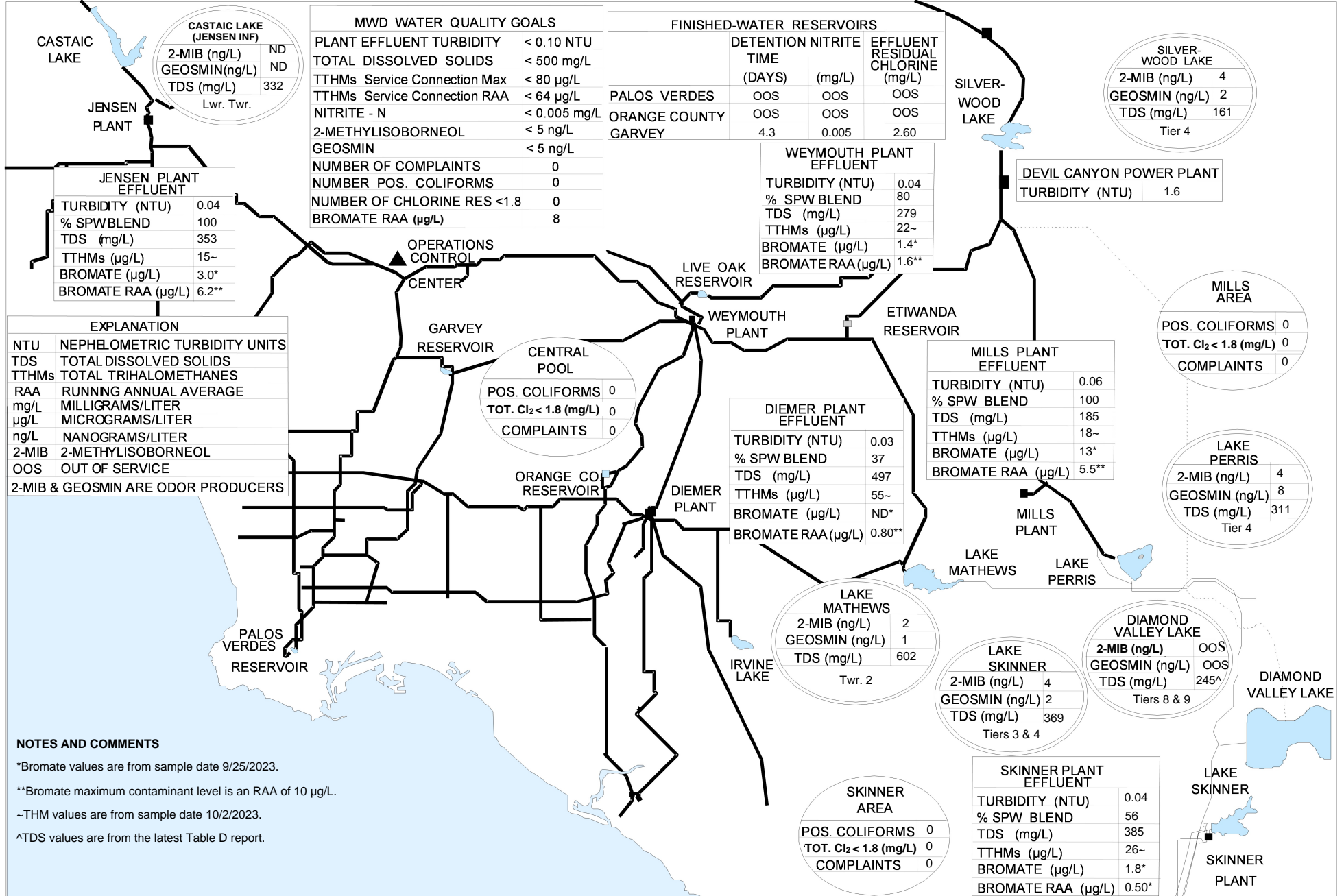
STAGE 2 TOTAL TRIHALOMETHANES (TTHM) MONITORING

3rd QUARTER 2023



THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

No violations of State or Federal regulations were recorded during the current period.



WATER QUALITY INFORMATION LINE: (800) 354-4420
VISIT MWD ON THE WEB AT <http://www.mwdh2o.com>



STAFF REPORT

To: Board of Directors

Meeting Date: October 23, 2023

**From: Hannah Ford, Engineering Manager
Rory Harnisch, Senior Engineer**

Subject: Capital Project Status Report

I. R-6 Reservoir Floating Cover and Liner Replacement Project

District staff completed reservoir disinfection and fill per AWWA C652-19 Method 3 on Monday, October 2nd, as shown in Figure 1. District staff developed a report that summarized the extensive water quality testing that took place during fill, and the Division of Drinking Water (DDW) approved use of the reservoir on Wednesday, October 4th. Measured water quality parameters were generally absent for bacteriological and below their maximum contaminant levels (MCLs) - except total trihalomethane (TTHM) and carbon tetrachloride (CCl₄). At the end of fill, TTHM was between 97.8 and 99.0 µg/L, over 20 percent higher than its MCL of 80 µg/L; CCl₄ was between 0.90 and 0.96 µg/L at the end of fill, almost double than its MCL of 0.5 µg/L. Once blended with our other sources of supply prior to distribution, these constituents are lower than their MCLs, and the running average of quarterly samples should comply with requirements. District staff continue to monitor water quality prior to the Allen-McColloch Pipeline shutdown scheduled for October 29th.

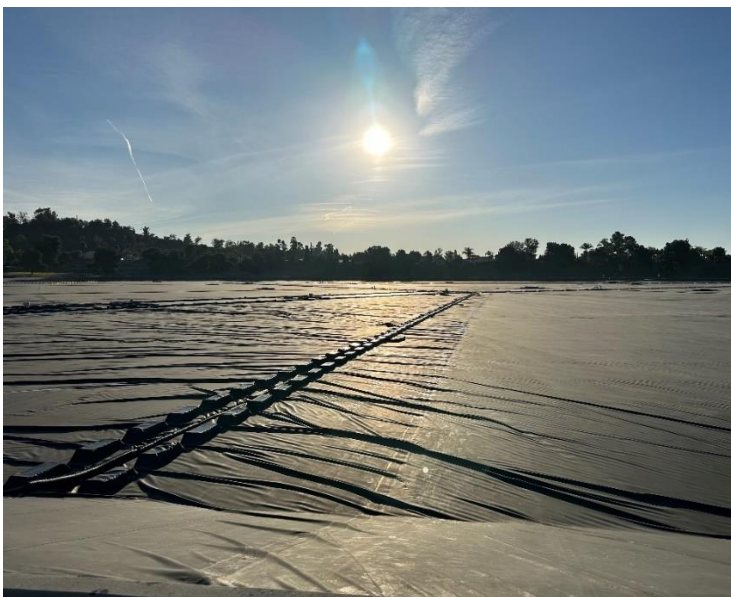


Figure 1 – Full Reservoir



Figure 2 - Training

Layfield USA, Corp. (Layfield) continues to work on its punchlist for project closeout, which includes troubleshooting the rainwater removal pump controls and site cleanup. Training took place this month, as shown in Figure 2. The District received the missing, pre-purchased open switch cords from Mueller at the end of September after fill had started. Now that fill is complete, a diver will install the cords for Layfield's electrical subcontractor to land in the control panel at the end of October.

District staff issued notice to proceed (NTP) to PaveWest, Inc. for the R-6 Reservoir Perimeter Road Repair contract and are working to schedule a preconstruction meeting. Construction will start at the end of this month and last until the end of December.

Table 1 summarizes the total budget, timeframe, and percent complete for the current construction contract with Layfield. Invoiced to date reflects work through the end of September 2023, and budget expenditure is on track with schedule completion. The District anticipates issuing one final change order, which will be a net deduct and schedule extension. Although the change order will include some minor cost adders for pipe coating and life preserver ring replacements, it will result in a net deduct by formally removing the perimeter road repair work and cover cleaning from the contract as well as reimbursement for inspection costs associated with Saturday work. Layfield will also provide a credit for damaged V-ditch delineators and bollard installation because the District included this work in the perimeter road repair contract. Total project costs, including the R-6 Reservoir Perimeter Road Repair contract, remain \$0.5 million under budget.

Table 1 – R-6 Floating Cover and Liner Replacement Budget Status

Construction Contract	Total	Earned to Date	Percent Complete
Budget	\$23,559,953 ¹	\$22,593,228	96%

¹Includes deductive Change Order No. 1 of \$48,872.24.

II. Grit Chamber Rehabilitation Project

As recommended by the Headworks Rehabilitation Study (Study), the District has been modifying the scope of work for the Grit Chamber Rehabilitation Project to improve maintainability, longevity, and energy efficiency of the grit removal system. Carollo Engineers, Inc. (Carollo) finalized the design for the additional Grit Chamber improvements at the end of August, and District staff are working with the Grit Chamber Recoating Project contractor, SS Mechanical, to develop costs for the additional scope.

III. Headworks and Secondary Clarifier No. 1 Rehabilitation Project

At over 60 years of age, Secondary Clarifier No. 1 shown in Figure 2 and Figure 3 has significantly deteriorated and some of its components have reached the end of their useful life. The District conducted a WRP Optimization Study in 2022 to evaluate the feasibility of eliminating the Waste Activated Cell (WAC) and retrofitting Secondary Clarifier No. 1 to achieve improved surface overflow rates. The WRP Optimization Study recommended replacing the component of the Secondary Clarifier No. 1 in kind and re-routing waste activated sludge (WAS) around the WAC, directly to the DAF Units.



Figure 2 –Secondary Clarifier No. 1



Figure 3 – Drained Secondary Clarifier

District staff have since been contemplating the results of the WRP Optimization Study and would like to further consider the implications of abandoning the WAC and/or potentially adding polymer to reduce the duration between truck trips for solids hauling.

In addition, the Headworks at the WRP has suffered from significant deterioration since its construction in the early 1980s. In the coarse screen area, there are two channels, one with a climber screen and one with a dimminutor. Once per day, when the Northline Lift Station is pumped down, the climber screen cannot handle the slug of organic-laden flow due to rapid screen blinding, so staff opens the bypass channel with the dimminutor to handle the excess flow. The dimminutor is failing and requires replacement, and the parts for the climber screen brake are now obsolete. ETWD conducted a Headworks Rehabilitation Study at the end of 2022, which recommended installing a new climber screen to replace the existing dimminutor, refurbishing the existing climber screen, re-arranging the existing Wash Presses, and constructing a new overflow to bypass the existing coarse screen area, as shown in Figure 4.

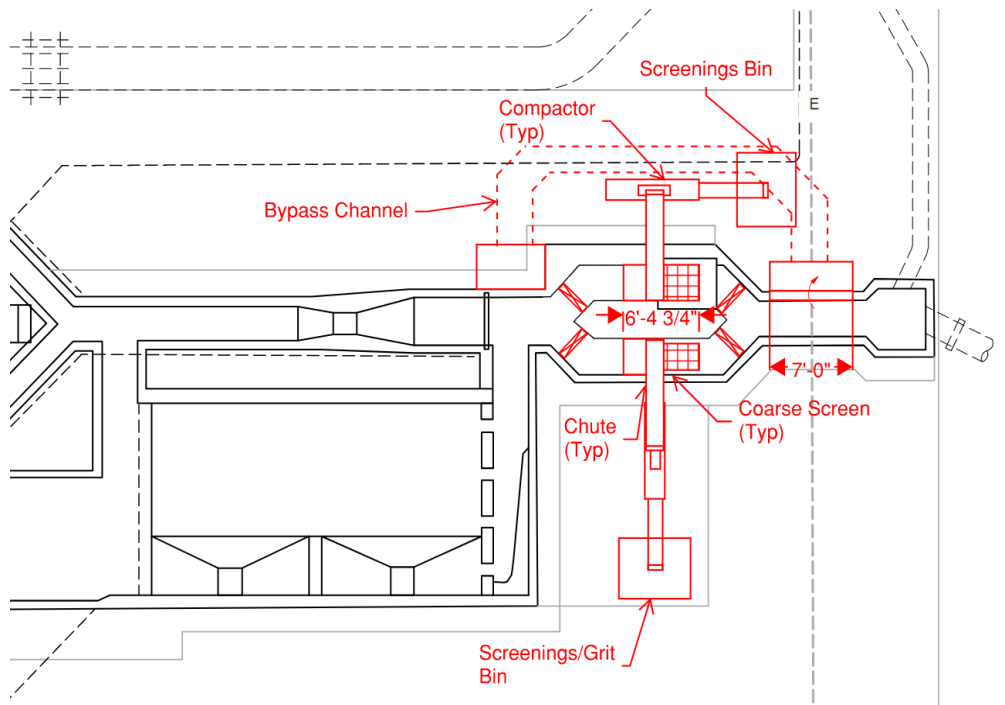


Figure 4 – Proposed Coarse Screen Area Improvements

To realize some contract management and cost efficiencies, District staff decided to combine the Coarse Screen Area and Secondary Clarifier No. 1 rehabilitations into one Headworks and Secondary No. 1 Rehabilitation Project. District staff issued a Request for Proposals to a short list of qualified firms for engineering design. Four consultants attended the preproposal meeting, and proposals are due in early November. After conducting interviews, District staff plans to recommend one consultant for award next month.

IV. New Warehouse

The general contractor Dumarc Corporation (Dumarc) began construction the week of the Labor Day holiday. Dumarc performed exploratory excavations and commenced construction of the building footing and building slab as shown in Figure 5. Dumarc installed steel reinforcement, placed the concrete footing, and will place the concrete slab in mid-October.



Figure 5 – New Warehouse Footing

Due to manufacturer delays, the pre-engineered metal building (PEMB) is scheduled to be delivered to the project site by late December and installed before the nesting season begins on February 1, 2024. The long lead item electrical components have an anticipated delivery of early December 2024, at which time Dumarc will re-mobilize to the site for installation.

Table 2 summarizes the cost and schedule as percent complete. Because invoiced to date reflects work through the end of September 2023, budget expenditure is on track with schedule completion.

Table 2 – New Warehouse Project Schedule and Budget Status

Construction Contract	Total	Earned to Date	Percent Complete
Budget	\$2,184,000	\$309,826	14%
Schedule	June 13, 2023 – September 4, 2024		23%

V. Aliso Creek Lift Station Alternatives Analysis

After Board approval of the Aliso Creek Lift Station Alternatives Analysis Study (Study), staff issued a Contract Agreement and Task Order to Tetra Tech Inc (Tetra Tech). Once the documents were executed, Tetra Tech and District Staff held a kick-off meeting in early October. District staff are working on responding to the consultant's data request. Tetra Tech will conduct a site visit to gather further data and perform influent flow monitoring in early November.

VI. DAF Unit 2 Retrofit and Rehabilitation

The District is working with the contractor, SS Mechanical Corp. (SS), on the submittal phase of the project. All pre-purchased equipment for this project is on site, including the mechanical components and 40-HP Nikuni pump. District staff and SS held a preconstruction meeting in mid-October, and SS intends on mobilizing to the site in early November for project completion by the end of the year.

VII. Effluent Transmission Main (ETM) Backflow Prevention Project

The contractor, Don Peterson Contracting (DPC), successfully completed the construction project. After successfully completing the shutdown, restoring service to the Effluent Transmission Main (ETM), and finishing installing pipe supports, as shown in Figure 6, the project is complete. Staff recorded the Notice of Completion (NOC) with the County of Orange and will release contract retention to DPC after the required 35 calendar days have elapsed.



Figure 6 – ETM Final Installation

Expenditures compared to Board approved costs are shown below in Table 3. Total project costs were \$490 over Board Approved costs because of the ETM Techite pipe burst, which flooded the Effluent Pump Station area, damaging the electrical system.

Table 3 – ETM Backflow Prevention Expenditure Summary

Contract Type	Contract Amount
Dudek (Design)	\$22,132
Dudek (ESDC)	\$7,863
Construction Management	\$0 ¹
Don Peterson Contracting (Construction)	\$223,910 ²
B&K Valves & Equipment, Inc. (Pre-purchased Check Valve)	\$32,962
Southwest Valve & Equipment (Pre-purchased Butterfly Valves)	\$10,783
Southern Contracting (Electrical Repair) ³	\$7,303
Total Project Costs	\$304,953
Board Approved Cost	\$304,463
Remaining Budget	(\$490)

¹Staff self-performed the Construction Management portions of the project.

²Includes Change Order No. 1 of \$ 14,999.75 for the existing ETM Techite repair and Change Order No. 2 to extend the contract.

³Electrical costs include replacing lights and outlets in the Effluent Pump Station as a result of the ETM Techite pipe burst flooding the area.

VIII. Effluent Pump Station Rehabilitation Project

The contractor, Filanc, has completed the pump installation, performed vendor verification of installation, and successfully performed commissioning activities for the Effluent Pump Station (EPS) as shown in Figure 7. District staff recorded the NOC with the County of Orange, and Filanc has provided the final billing. Once the required duration after NOC recording has elapsed, District staff will release the retention to Filanc.



Figure 7 – New Effluent Pumps

Actual expenditures are shown below in Table 4. The total project costs were \$25,662 below the Board approved because change orders were less than the contingency and the District negotiated a credit with the pump manufacturer early in the project.

Table 4 – EPS Pump Station Rehabilitation Expenditure Summary

Contract Type	Contract Amount
Design	\$0 ¹
ESDC	\$0 ¹
Filanc Construction (Construction)	\$390,221 ²
Southern Contracting Company (Electrical Repairs) ³	\$9,117
Total Project Costs	\$390,221
Board Approved Cost	\$425,000
Remaining Budget	\$25,662

¹Staff self-performed the design and ESDC portions of the project

²Includes Change Order No. 1 of \$ 3,221.14 for coating the pump interior and Change Order No. 2 with a credit of \$16,435.63.

³Electrical costs include replacing the existing pump and motor wiring and conduit as the existing wires were too short to reach the newly installed pump.

IX. Caltrans I-5 Widening Utility Relocations

Phase B is complete, and the District received reimbursements for Phase B work activities from Caltrans. Staff maintains communication with the Caltrans contractor and Caltrans construction management team for Phase C activities, which will include relocation of two fire hydrants and an irrigation meter. Phase C is anticipated to begin in December 2023.

X. Asset Management

Hazen and Sawyer (Hazen) conducted a workshop to review the WRP condition assessment findings. Next, District staff will work with Hazen to assign consequence of failure to each asset and develop a risk score.

Hazen finalized the Pump Station Asset Management Plan Technical Memorandum (TM) and Computerized Maintenance Management System (CMMS) Evaluation TM. District staff are reviewing the results of that evaluation to determine how best to integrate asset management and ongoing maintenance management efforts.

XI. System Wide Arc Flash and Coordination Study

District staff submitted a utility information request to Southern California Edison (SCE) this month and are scheduling site visits with the consultants at each facility, including some that require a shutdown. For the WRP site visit, District staff plan to coordinate that shutdown with the ATS installation.

XII. Lead and Copper Rule Revisions Compliance

District staff met with MWDOC and Hazen to kick off the Project and further determine the anticipated level of effort. District staff are responding to an extensive data request while MWDOC and Hazen develop the contract agreement and final costing based on number of regional participants.

XIII. WRP Main Electrical Power Breaker

District staff worked with Schneider Electric to install the last of the three purchased breakers at the WRP in May. District staff has been verifying the status of the purchased ATSs, which were anticipated in August 2023. The manufacturer indicated that delivery may be further delayed but is working to rectify that timeline. The latest ship date is the end of October 2023, and District staff are securing Schneider Electric staff for installation soon thereafter in mid-November.

XIV. Tertiary Disinfection Optimization Project

District staff reviewed the tracer study protocol developed by Trussell Technologies, Inc. (Trussell Tech). Trussell Tech finalized the protocol, and District staff submitted to DDW. DDW anticipates returning comments the first week of November. District staff will initiate the tracer test upon finalization of the protocol following receipt and incorporation of DDW's comments.

XV. Cathodic Protection Repair on Moulton Parkway

The District hired the Farwest Corrosion Control Company (FCCC) to conduct a survey of the 1,000-ft section of piping along Moulton Parkway. Results indicate some interference with cathodic protection on the Joint Transmission Main (JTM), so FCCC will need to conduct another set of surveys to determine where the cathodic jumps from JTM to the District's main and how to best restore the impressed current cathodic protection system to the entire main. Delayed due to Operations staff availability for traffic control, this next survey will take place in December 2023.

XVI. Energy Efficiency Analysis

As a new development this month, District staff met with InPipe Energy to explore potential opportunities for installing turbines within its water and recycled water systems. Figure 8 shows an example process flow diagram of an InPipe Energy HydroXS microturbine system. District staff are responding to a data request to determine the most appropriate potential locations.

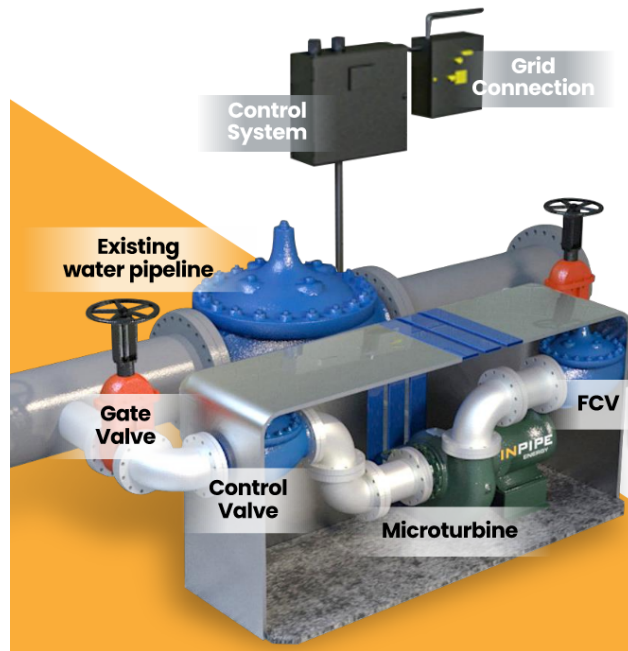


Figure 8 – HydroXS Microturbine System from InPipe Energy

District staff continues to work on developing the recommended energy efficiency projects for the WRP and pump stations. None of the pump stations have been eligible for rebates to date due to ineligible pump type. District staff continue to work on gathering data to provide to SoCalREN on Secondary Clarifier No. 1 and WAC Rehabilitation Project, which may result in a SCE rebate.

F.Y. 2023/24 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	Revenue Bond / CIP Budget	Board Approved Cost
2023/24 Capital Projects															
	P-3 Pump Station Rehabilitation							RFP	A	E	E	E	E	\$200,000	
	Moulton/El Toro Cathodic Protection Study	ET	ET											\$100,000	< \$50,000
	Surcharge Capacity Repair on Gowdy Avenue						RFP	A	E	E	E	E	B	\$52,000	
	Northline Coating Improvement Project				B	A	C	C	C					\$91,000	
	Headworks and Secondary Clarifier Rehabilitation			RFP	RFP	A	E	E	E	E	E	E	E	\$2,926,000	
	Grit Chamber Rehabilitation	E	A	E	E	A	C	C	C	C	C	C	C	\$861,861	\$542,228
	DAF Unit No. 2 Rehabilitation Project	A	C	C	C	C								\$221,641	\$209,595
	Aliso Creek Pump Station Rehabilitation Project	RFP	RFP	A	E	E	E	E	E	RFP	A	E	E	\$826,000	\$120,000
	Asset Management	A	E	E	E	E	E	E						\$120,000	\$113,140
	System-Wide Arc Flash and Coordination Study	RFP	A	E	E	E	E	E	E					\$180,000	\$179,550
2023/24 Capital Equipment															
	R-6 Security Cameras and Fence Alarm Replacement			A	C	C								\$84,000	\$114,234
	Freeway Electrical Equipment Replacement		A											\$110,000	\$155,646
	Core Switch Replacement	Ordered and received, total cost was within GM authority												\$63,000	< \$50,000
Revenue Bond Projects															
	R-6 Reservoir Floating Cover	C	C	A	C	C	C							\$12,442,344	\$11,903,880
	New Warehouse	C	C	C	C	C	C	C						\$4,006,421	\$3,924,409
	South Orange County Turnout Project	E	E	E	E	E	E	E	E	E	E	E	E	\$3,000,000	
Previous Fiscal Year Carryover															
	P-4 Pump Replacement	ET	A					R	C					\$59,000	\$73,701
	ETM Backflow Prevention Project	C	C											-	\$304,463
	Tertiary Disinfection Optimization Project	A	E	E	E	P	E	E	E	B	A	C	C	-	\$107,321
	Effluent Pump Station Rehabilitation		C	C	C									\$150,000	\$425,000
	WRP Main Electrical Power Breaker Upgrades							R	C					\$140,000	\$196,124
	Mathis Lift Station Inlet Drop Piping Repair	E	E	E	E	C	C							-	
	Caltrans I-5 Widening Utility Relocations						C	C						\$0	\$627,365
Total														\$25,633,267	\$18,996,656

Key:

	Water
	Wastewater
	Split between Water and Wastewater
	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 known 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 untended 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.

Evapotranspiration: 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 is 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.