

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

July 24, 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/86106155179> (Meeting ID: 861 0615 5179).

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 – Vice President Vergara

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)

2. SAWPA Cloud Seeding Project (Reference Material Included)

SAWPA Staff will make a presentation to the Board regarding the Santa Ana River Watershed Weather Modification Pilot Project. Staff will review and comment on the proposed Right of Entry Agreement between the District, SAWPA and North American Weather Consultants to permit SAWPA and North American Weather Consultants to locate and operate cloud seeding equipment at the R-6 Reservoir site.

Recommended Action: Staff recommends the Board authorize the General Manager to execute the Right of Entry Agreement between the District, SAWPA and North American Weather Consultants to permit SAWPA and North American Weather Consultants to locate and operate cloud seeding equipment at the R-6 Reservoir site.

3. California Asset Management Program (CAMP) (Reference Material Included)

A representative from PFM Asset Management will update the Board on the District’s investment holdings and philosophy based on an economic outlook.

ENGINEERING COMMITTEE

CALL MEETING TO ORDER – Director Freshley

4. **Consent Calendar**

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

- a. Consider approving the minutes of the June 19, 2023 Engineering Committee meeting. (Minutes Included).

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

ENGINEERING ACTION ITEMS

5. **DAF Unit No. 2 Rehabilitation and Retrofit Project** (Reference Material Included)

Staff will review and comment on construction bids submitted for the construction of the DAF Unit No. 2 Rehabilitation Project.

Recommended Action: Staff recommends that the Board of Directors authorize the General Manager to issue a contract to S.S. Mechanical Construction Corp. in the amount of \$37,715.00 for the construction of the DAF Unit No. 2 Rehabilitation Project. Staff further recommends that the Board authorize the General Manager to fund the project costs from the District's Capital Reserves in accordance with the District's adopted Capital Reserve Policy.

6. **WRP Asset Management Plan** (Reference Material Included)

Staff will review and comment on a proposal submitted by Hazen and Sawyer to provide engineering services for the development of the WRP Asset Management Plan.

Recommended Action: Staff recommends that the Board of Directors authorize the General Manager to issue a contract to Hazen and Sawyer in the amount of \$113,140.00 for engineering services to develop the WRP Asset Management Plan. 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.

7. Tertiary Disinfection Optimization Study (Reference Material Included)

Staff will review and comment on a proposal submitted by Trussell Technologies, Inc. to prepare and execute a DDW-approved tracer study protocol in an effort to secure approval for the strategy to reduce chlorine usage and decouple the Recycled Water Storage Tank from the Chlorine Contact Tank at the Tertiary Treatment Plant.

Recommended Action: Staff recommends that the Board of Directors authorize the General Manager to issue a contract to Trussell Technologies, Inc. in the amount of \$48,565.00 for the preparation and execution of a tracer study for the Tertiary Disinfection Optimization Study. Staff further recommends that the Board authorize the General Manager to fund the project costs from the District's Capital Reserves in accordance with the District's adopted Capital Reserve Policy.

ENGINEERING INFORMATION ITEMS

**8. 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.

9. 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

FINANCE AND INSURANCE COMMITTEE MEETING

CALL MEETING TO ORDER – Director Gaskins

10. **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 June 19, 2023 Finance and Insurance Committee meeting (Minutes included)

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

FINANCIAL ACTION ITEMS

11. **Resolution 23-7-1 Modifying the Authorized Signatories for the Local Agency Investment Fund Account** (Reference Material Included)

Staff will review and comment on Resolution 23-7-1 which modifies the District's authorized signatories for the Local Agency Investment Fund (LAIF) Account.

Recommended Action: The Board of Directors will consider adopting Resolution No. 23-7-1 which modifies the District's authorized signatories for the Local Agency Investment Fund Account.

RESOLUTION 23-7-1

RESOLUTION OF THE BOARD OF DIRECTORS OF THE ELTORO WATER DISTRICT MODIFYING THE AUTHORIZED SIGNATORIES FOR THE LOCAL AGENCY INVESTMENT FUND ACCOUNT

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

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

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

13. **Financial Package - Authorization to Approve Payment of Bills for the Month Ending July 24, 2023 and Receive and File Financial Statements as of June 30, 2023** (Reference Material Included)

The Board will consider approving Bills for Consideration dated July 24, 2023 and Receive and File Financial Statements as of June 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 July 24, 2023, and 2) receive and file the Financial Statements for the month ending June 30, 2023.

14. **Olin Chlor Alkali Products** (Oral Report)

Staff will review and comment on a purchase order contract with Olin Chlor Alkali Products in the amount not to exceed \$220,000 for the purchase of 12½% concentration Sodium Hypochlorite for the Tertiary Treatment Plant.

Recommended Action: The Board will consider approving the purchase order contract for Olin Chlor Alkali Products in the amount not to exceed \$220,000 for the purchase of 12 ½% concentration Sodium Hypochlorite for the Tertiary Treatment Plant.

15. **Nieves Landscape** (Reference Material Included)

Staff will review and comment on a purchase order contract with Nieves Landscape in the amount not to exceed \$146,566.35.

Recommended Action: The Board will consider approving the purchase order contract with Nieves Landscape in the amount not to exceed \$146,566.35.

FINANCIAL INFORMATION ITEMS

16. **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.

17. **2023-24 Fiscal Year Budget and Proposition 218 Notice Status**
(Oral Report)

Staff will provide an update regarding the response to the Proposition 218 Notice and the Community Informational Meetings conducted on July 12 and July 19.

COMMENTS REGARDING NON-AGENDA FIC ITEMS

CLOSE FINANCE AND INSURANCE COMMITTEE MEETING

REGULAR SESSION

18. SOCWA Facilitated Discussion Process

Staff will provide an update on the current status of the SOCWA facilitated discussion process.

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) (2) to consult with legal counsel and staff – Potential Litigation (two matters).
2. Pursuant to Government Code Section 54956.9(a) to consult with legal counsel and staff. *Plaintiff, Marlene Jean v. Defendants, Dollar Tree Stores, et al./Cross-Complainant, Park Aliso Commercial Center, Ltd, et al. v. Cross-Defendant, El Toro Water District, et al., Superior Court of Los Angeles Case No. 19STCV25234. [Government Code Section 54956.9(a)] – Pending Litigation (one matter).*

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.



STAFF REPORT

To: Board of Directors

Meeting Date: July 24, 2023

From: Dennis Cafferty, General Manager

Subject: SAWPA Cloud Seeding Project

In November of 2021, Jeff Mosher, the General Manager of the Santa Ana Watershed Project Authority (SAWPA) made a presentation to the Board regarding SAWPA's proposed cloud seeding pilot project. Since that time ETWD staff has been working with SAWPA staff as well as SAWPA's contractor, North American Weather Consultants (NAWC), on an agreement that would allow the installation of a cloud seeding system on District property at the R-6 Reservoir site.

The draft agreement is attached for consideration by the Board. The draft agreement presented for approval is the result of an interactive effort between SAWPA, NAWC, District staff and the District's General Counsel.

SAWPA will make a brief presentation to the Board regarding the project as well as entertain any questions.

Recommended Action: Staff recommends the Board authorize the General Manager to execute the Right of Entry Agreement between the District, SAWPA and North American Weather Consultants to permit SAWPA and North American Weather Consultants to locate and operate cloud seeding equipment at the R-6 Reservoir site.

RIGHT OF ENTRY AGREEMENT

This Right of Entry Agreement (“Agreement”) is entered into effective July 24, 2023, by and between the El Toro Water District, a public agency (“Permitter”); and the Santa Ana Watershed Project Authority, a public agency and the North American Weather Consultants, Inc., a Utah corporation and consultant to SAWPA (collectively, “Permittees”).

RECITALS

A. Permitter owns that certain real property located at 23392 La Glorieta, Mission Viejo, CA 92692 (APN #809-461-08) (“Property”); and

B. Permittees desire to obtain Permitter’s permission to enter onto certain portions of the Property to locate and operate a silver iodide nuclei generator in connection with the Santa Ana River Watershed Weather Modification Pilot Project (“Activities”). The Activities shall be conducted solely within the area of the Property as depicted on Exhibit “A” to this Agreement. Said Exhibit is incorporated herein and made a part of this Agreement.

NOW, THEREFORE, the parties agree as follows:

1. Temporary Right of Entry. Subject to the terms and conditions set forth in this Agreement, Permitter hereby grants to Permittees the right to enter onto the Property for the purpose of performing the Activities and for no other purpose. Permittees shall perform the Activities at their sole cost and expense. Nothing in this Agreement shall be deemed to provide any permission, or other right, of Permittees to conduct any other activity on or about the Property. Permittees shall provide Permitter notice of entry 24 hours prior to entering the Property. Said notice shall be given to the following Permitter contact:

Contact Name: Scott Hopkins, Operations Superintendent
Phone Number: (949) 837-7050, ext. 217

Permittees shall make arrangements in advance with the Permitter contact for entry and access to the Property during weekdays between 8:00 a.m. and 3:30 p.m. at a time mutually convenient.

2. Term. Unless earlier terminated as provided herein, the temporary right of entry provided by this Agreement shall be in effect through June 30, 2027. The operational season for cloud seeding is expected to be November 15th through April 15th of the following year. With an expected commencement of November 15th 2023 and an expected termination (or renewal) of April 15th 2027. These dates may be adjusted upon written approval by the Permitter and Permittees. Installation of equipment will occur between October 1st and October 31st of each calendar year, and the equipment will be removed by May 30th.

3. Compensation. Payment for the use of land and operation of equipment is defined below.

Compensation Type	Frequency	Amount
Initial Impact Fee	One time at initial installation	\$2,500
Annual Land Usage Fee	Once Annually	\$1,000
Land Restoration*	At termination of program	\$2,500

*Land Restoration Fee only applies if Permittee fails to return to the land to a state similar to its condition prior to installation of the equipment.

4. Indemnification/Hold Harmless. Permittees, each hereby agree to indemnify, defend, and hold harmless Permittor and its Directors, Officers, Employees and Agents from all actions, liabilities and damages to property or injuries to persons which may be caused by Permittees' acts or omissions pursuant to this Agreement, whether such damage shall accrue or be discovered before or after termination of this Agreement and the temporary right of entry. Permittees, specifically, and not by way of limitation agree that they shall be responsible for any and all repair, maintenance and cleanup in connection with the Activities. The indemnity and other rights afforded to Permittor by this section shall survive the revocation or termination of this Agreement and the temporary right of entry. Permittees shall not be held responsible for acts of negligence or willful misconduct of Permittor, Permittor's Personnel, employees of Permittor, agents of Permittor and other individuals granted access to property by Permittor. In connection therewith.

5. Liability Insurance. Before commencing the activities, Permittees shall each provide and maintain the following insurance and designate Permittor as an additional insured:

- a. General Liability – Two million dollars (2,000,000) per occurrence for bodily injury, personal injury and property damage.
- b. Automobile Liability – Two million dollars (2,000,000) for bodily injury and property damage each accident limit.

6. Compliance with Laws/Permits. Permittees shall comply with all federal, state and local laws and regulations. Without limiting the generality of the foregoing, Permittees, at their sole cost and expense, shall obtain any and all permits which may be required by any law or regulation in connection with the Activities.

7. Not Real Property Interest. It is expressly understood that this Agreement and temporary right of entry do not in any way whatsoever grant or convey any permanent easement, lease, fee or other interest in the Property to Permittees. This temporary right of entry is not exclusive.

8. Revocation and Termination. Notwithstanding any sums expended by Permittees in furtherance of this temporary right of entry, the temporary right of entry granted herein is revocable and may be terminated by Permittor in accordance with the terms of this Agreement. This Agreement and temporary right of entry may be terminated at any time by either party upon

10 day's prior notice in writing to be submitted to the other party. In cases of an emergency or a breach of this Agreement by Permittees, this temporary right of entry and Agreement may be terminated by Permittor immediately.

9. Restoration of the Property. Upon the termination or revocation of this Agreement and temporary right of entry, Permittees shall, at their own cost and expense, restore the Property to the same condition in which it was prior to Permittees' entry. If Permittees fail to restore the Property to its prior condition within 10 days after the effective date of the termination, Permittor may proceed with such work at the expense of Permittees. In the event of an emergency or breach which results in termination of this Agreement, Permittor shall provide a reasonable period of time following said termination to remove items from the Property and to restore the Property as required herein.

10. Continuing Liability. No termination of this Agreement and temporary right of entry shall release Permittees from any liability or obligation hereunder resulting from any acts or omissions occurring prior the termination of this Agreement and temporary right of entry.

11. Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same Agreement.

12. Choice of Law and Venue. This Agreement and the rights of the Parties shall be governed by and construed in accordance with the laws of the State of California including all matters of construction, validity, performance, and enforcement and without giving effect to the principles of conflict of laws. Any action brought by any party hereto shall be brought within the State of California, County of Orange.

13. Responsibilities of Permittees and Permittor

Permittor employees shall:

1. Provide Permittees escorted access to the sites to install and periodically maintain equipment.
2. Report any known issues or concerns to Permittees

Permittees shall be responsible to:

1. Provide all equipment.
2. Notify Permittor prior to accessing the property for equipment maintenance and prior to any scheduled refills of the flare tree.
3. Maintain the equipment insuring it is all in proper working order.
4. Comply with the CEQA analysis and accompanying MND.
5. Comply with suspension criteria as outlined in the operations plan.
6. Comply with Permittor's safety and notification requirements.
7. Comply with all local, state and federal rules, regulations or permit requirements.

Operational Responsibility:

Permittees maintain sole responsibility for determining when the cloud seeding equipment is to be operated.

In the event of an emergency, or if deemed necessary to ensure workplace safety, Permitter at its sole discretion, may require that Permittees not operate the cloud seeding equipment.

14. Authority. The individuals executing this Agreement on behalf of their respective parties represent that they are authorized to do so by requisite action of their respective parties.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement effective on the date first written above.

EL TORO WATER DISTRICT

By: _____
Dennis P. Cafferty
General Manager

Date: _____

SANTA ANA WATERSHED PROJECT AUTHORITY

By: _____
Jeffrey J. Mosher
General Manager

Date: _____

NORTH AMERICAN WEATHER CONSULTANTS, INC.

By: _____
Garrett Cammans
President

Date: _____

EXHIBIT “A”

Description of Equipment:

In this section the equipment to be installed is described.

Remote Flare Trees:

Remotely operated cloud seeding flare trees (AHOGS or Automated High Output Ground Seeders), are comprised of 3-4 vertical masts and a security camera mounted just off the ground. The vertical masts stand about 10 feet above grade and are positioned 10 feet apart from each other, either in a square formation or in a straight line. The camera is installed close to the ground facing the masts. This camera is used for operational guidance (eyes on the ground) and to ensure that EQUIPMENT operates as designed.

The EQUIPMENT contains burn-in-place flares that contain high concentrations of cloud seeding agents and burn for 3-4mins each. During periods of operations these flares may be lit in constant succession or lit at less frequent intervals based on the conditions of the storm. The flares are housed in a spark arrestor to prevent burning embers from reaching the ground. Weed abatement and other precautions are performed on a regular basis to reduce as additional safety precautions.

The masts are held in place by square bases that are installed at a depth of 24-36” below grade, using 1-2 80 bags of cement. The square bases protrude from the ground 6-18” depending on the depth of installation. During the off-season masts are generally removed though the bases are typically left in place. If necessary, these bases can be covered with construction cones, painted orange or otherwise decorated to accident or injury during the season, though these bases are typically installed in low traffic areas where such is not required. At the end of the contract period, these bases will be removed.

Images of Property (including installation location) and Equipment

The equipment shall be installed in a location selected by Permittor. The installation location selected by the Permittor is provided below.



The equipment installed is of similar design and quality as has been installed and successfully operated without issue in other programs across the California Coastline. The equipment has been thoroughly tested for safety and reliability. A representation of the equipment is included herein.





Santa Ana River Watershed Weather Modification Pilot Program

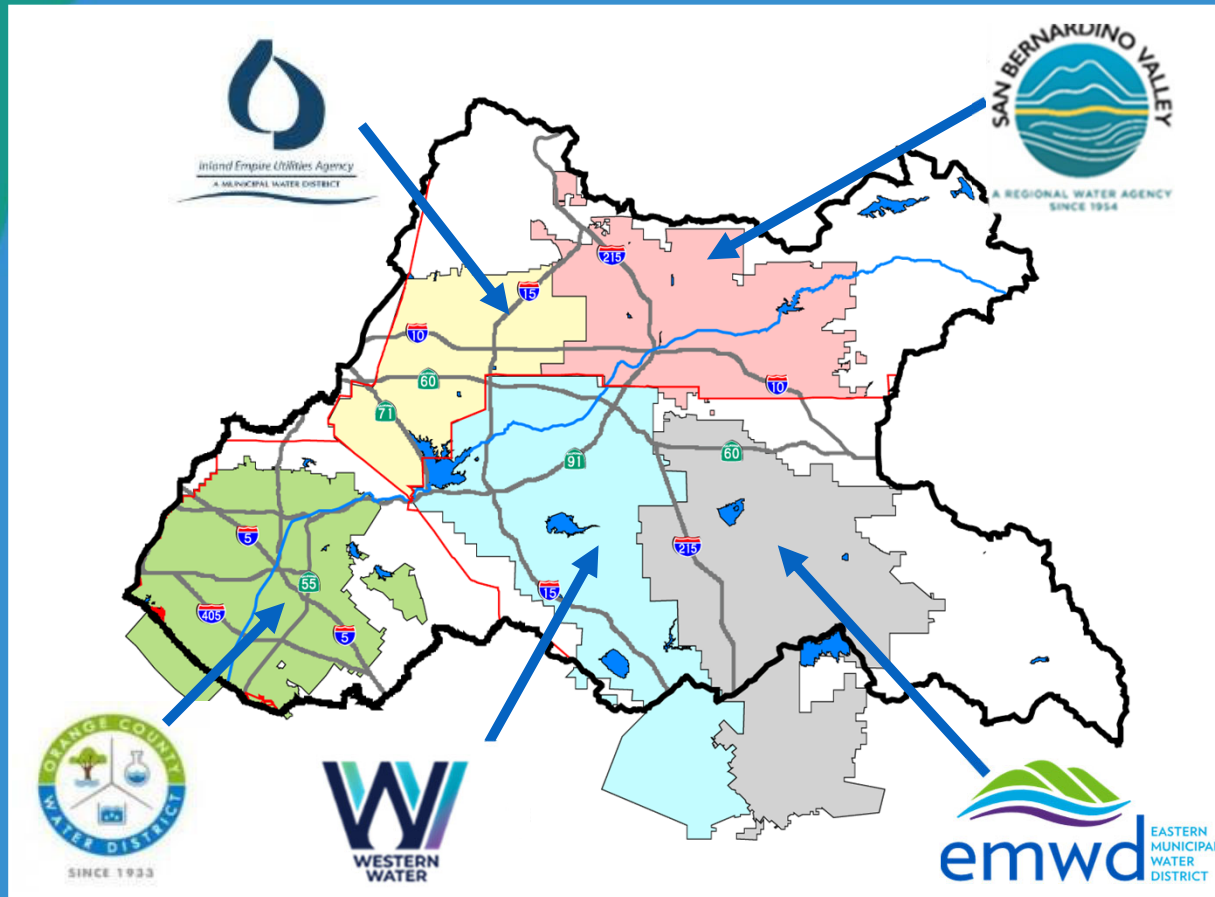
Board of Directors Meeting
El Toro Water District

July 24, 2023

Jeff Mosher
General Manager
Santa Ana Watershed Project Authority



SAWPA: Joint Powers Authority



Activities:

- Inland Empire Brine Line
- Integrated Regional Water Management (IRWM) Agency
- Regional “Roundtables” for stakeholders
- Conduct Regional Projects

Why consider cloud seeding in the Santa Ana River Watershed?

Precipitation – and flows in the Santa Ana River – have been trending down

- Cloud seeding increases precipitation (**with an emphasis as snow in upper elevations**)
- Produces a local supply
- Potential to reduce the use of imported water

Dry years and droughts occur

- Cloud seeding works in both dry and wet years

Cost effective

- The costs for 8%-11% increase in streamflow is a fraction of the cost of imported water

Supports local water storage

- Natural infiltration
- Takes advantage of existing stormwater capture infrastructure

How cloud seeding works

1

Silver iodide mixed with acetone is vaporized, releasing particles into the atmosphere.

2

Iodide particles rise into cold, high-altitude air, moisture in the air condenses to form ice crystals on particles.

3

As ice crystals grow they become heavy and fall back to Earth in the form of snow or, at warm temperatures, melt into rain.

Seeding generator

Wind direction

Source: The Fact Site

Ground Based Seeding Methods

CNG's (Cloud Nuclei Generators)



- Ideal for orographic lift (winds caused by land barriers)
- Create a continuous plume
- Inexpensive to install and operate

AHOGS (Automated High Output Ground Seeding) Systems



- Ideal for strong convective storm attributes (turbulence)
- Delivers higher concentration of silver iodide
- Operated remotely – rapid release

Silver Iodide Seed Plume Modeling

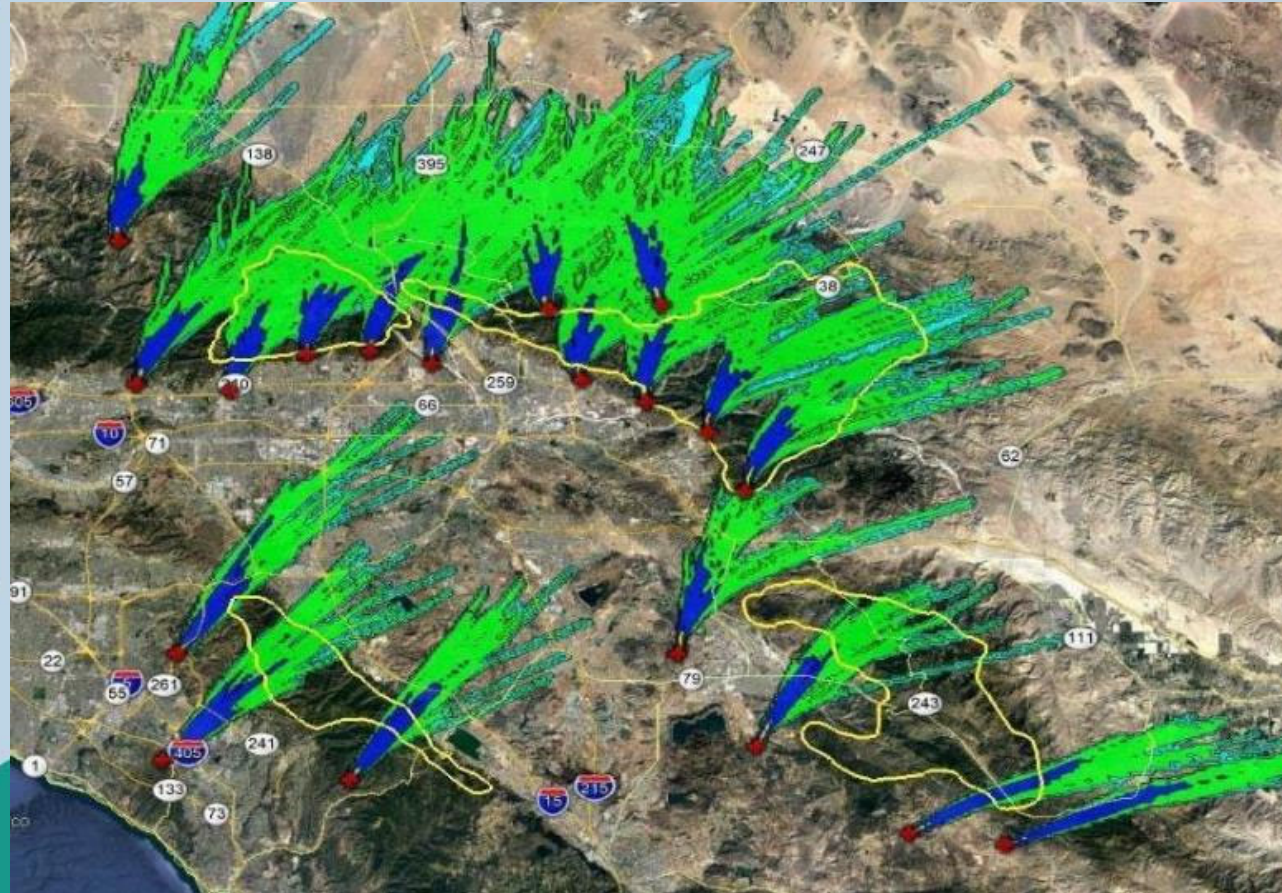
Ground Based Seeding
Dispersion Model

4 seeding areas:

- Northwest
- Northeast
- Southwest
- Southeast

Includes several ground sites in each area

Target additional snow in high elevation

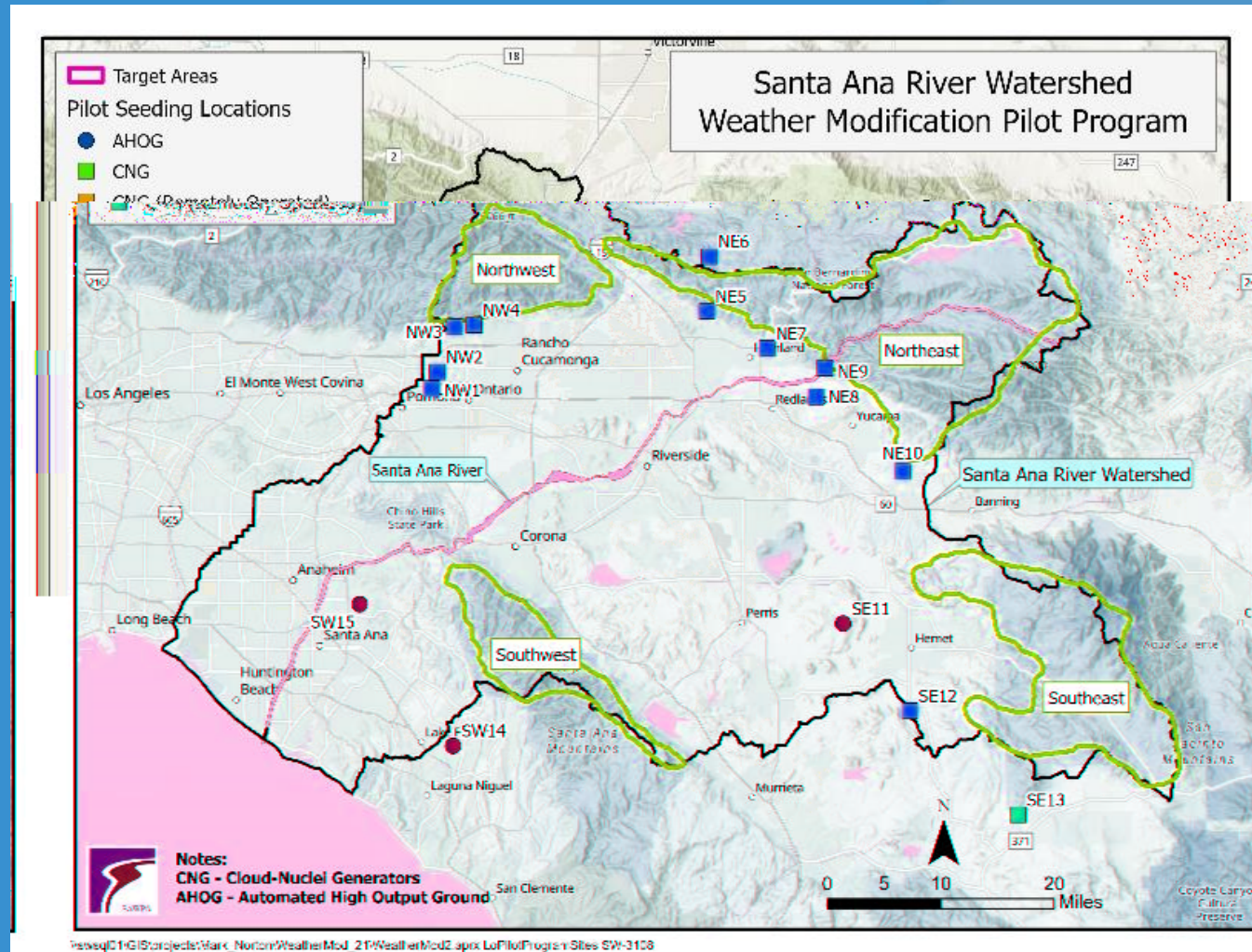


4 Year Pilot Program Proposed - Seeding Site Locations

4 seeding areas:

- Northwest
- Northeast
- Southwest
- Southeast

Includes several ground-based sites in each area





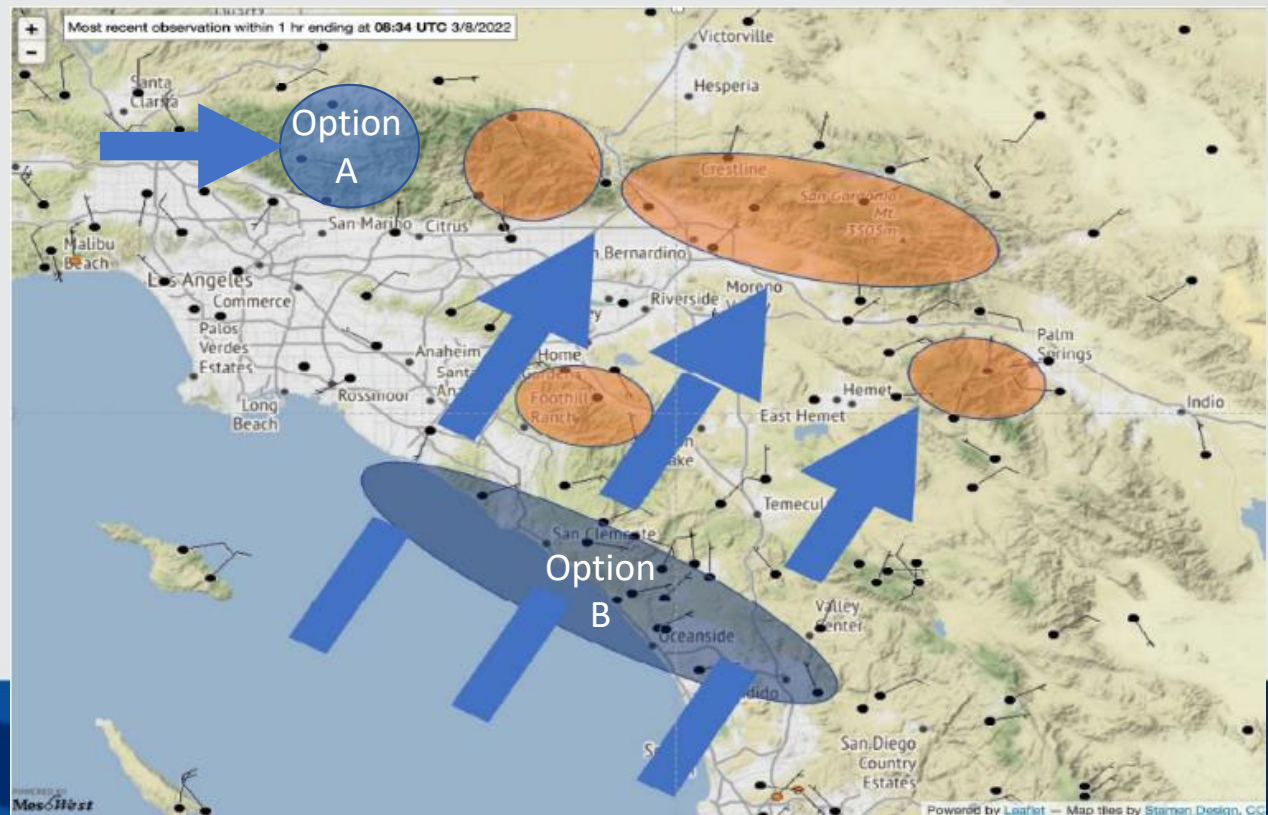
Operations, Licensing, and Permitting

- **Operator:** North American Weather Consultants (NAWC)
- **Operators** are licensed and carry liability insurance
- **Operations Plan** will address operations and communication needs
- **Suspension criteria** turns off program during high precipitation/flood conditions (e.g., large atmospheric rivers)
- **Permitting:** Although a CA state permit is not required, CEQA mitigated negative declaration is conducted

Weather Modification Pilot – “Validation Study”

- Verify increases in precipitation
 - Compare “Target Areas” to “Control Areas”
 - 4-year study
- Evaluate and review:
 - Precipitation increases
 - Stream flow increases
 - Benefit/Costs
 - Operations
 - Use of suspension criteria

Control Area Options:



Pilot Project Funding

Source	Amount
Prop 1 Round 2 Grant (DWR)	\$861,400
SAWPA Member Agencies (OCWD, EMWD, WMWD, IEUA, SBVMWD)	\$691,000
Local Funding Partners: <ul style="list-style-type: none">• Big Bear City Community Services District• Big Bear Lake Department of Water & Power• Chino Basin Water Conservation District• City of Corona Utilities Department• City of Santa Ana Municipal Utility Services• Lake Elsinore and San Jacinto Watersheds Authority• San Antonio Water Company• San Geronio Pass Water Agency	\$94,000
Total (4 years)	\$1,646,400

Right of Entry Agreement

- Parties
 - ETWD, SAWPA, and NAWC
- Term – 4 years
 - Nov-April
 - Equipment removed during off season
- AHOGS
 - Remotely controlled
 - Includes camera for operator to view
- Provisions:
 - Compensation for District
 - Indemnification
 - Liability
 - Insurance coverage
 - Responsibilities of each party



ETWD Site

- R-6 Reservoir
- Schedule site visit with ETWD staff:
 - SAWPA and NAWC staff
 - Identify any improvements or enhancements needed
- CEQA requirement
 - Biological review of site
- Installation Schedule
 - October 2023



Four-Year Pilot Project Schedule

Program Elements	2020	2021	2022	2023	2024	2025	2026	2027
Feasibility Study								
Outreach: Local Cost Share for Prop 1 Round 2 Grant								
Ground Seeding Site Analysis								
CEQA								
DRW Prop 1 Round 2 Grant Application and Award								
Pilot Project								
Outreach/Public Engagement								

Cloud Seeding
will start
Nov. 15, 2023

Questions?

Jeff Mosher
951.354.4240
jmosher@sawpa.org

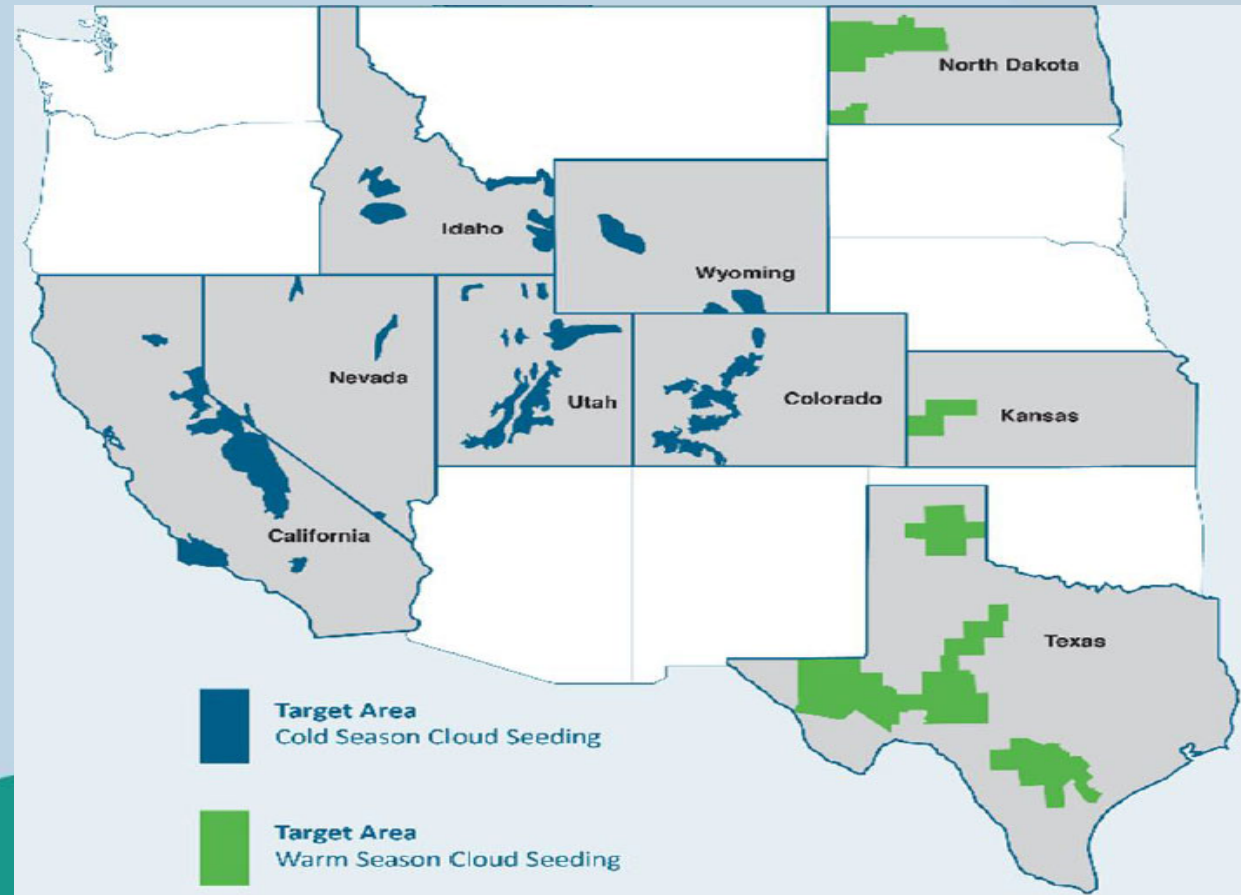




Background Slides

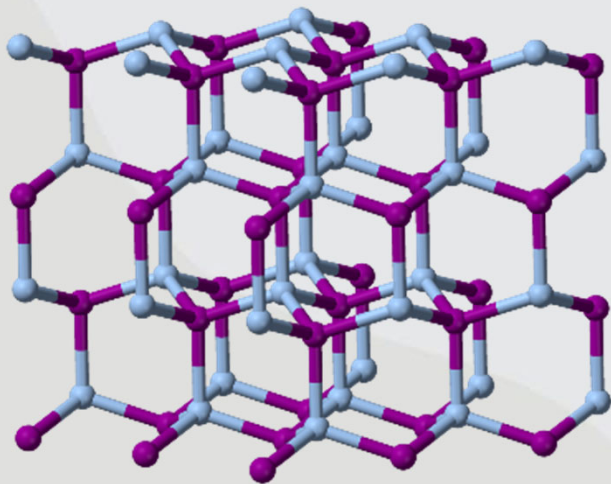
U.S. Projects

- ❖ Cold Season Cloud Seeding Leaders
 - CA, CO, ID, UT, WY, NV
- ❖ Applications
 - Power Utilities (hydropower)
 - Ski areas
 - Water Resource Agencies
 - Irrigation Districts
- ❖ California Projects
 - Santa Barbara County (30+ yrs)
 - San Luis Obispo
- ❖ CA DWR (2016)
 - **Cloud seeding is a “safe and effective means of augmenting local water supplies.”**



Source: North American Weather Modification Council

Potential Environmental Effects



- **Silver iodide**

- Chemically inert
 - Not soluble in water
 - Not biologically available
- Low toxicity and does not accumulate in soils at levels above natural background

Potential Fire Risk

- Approved CEQA MND (addressed environmental impacts)
- Vegetation around the units would be maintained to ensure that it does not pose a fire risk
- SAWPA and its contractors would comply with CalEPA's Unified Program (e.g., hazardous materials release response plans and inventories, California Uniform Fire Code hazardous materials management plans and inventories)
- Flares and igniters are enclosed
- Consultant and SAWPA carry insurance to ensure a local agency is not liable for any legal claims
- Only operate between November 15 and April 15



El Toro Water District

Portfolio Update
Ending June 30, 2023

June 24, 2022

949.230.6896

PFM Asset Management LLC

NOT FDIC INSURED : NO BANK GUARANTEE : MAY LOSE VALUE

Current Market Themes



- ▶ The U.S. economy is characterized by:
 - ▶ Headline inflation numbers trending lower, but the Fed's current focus, "Supercore" inflation," is showing little sign of slowing
 - ▶ A labor market that has proven to be exceptionally strong
 - ▶ A more optimistic sentiment around economic growth due to resilient consumer spending

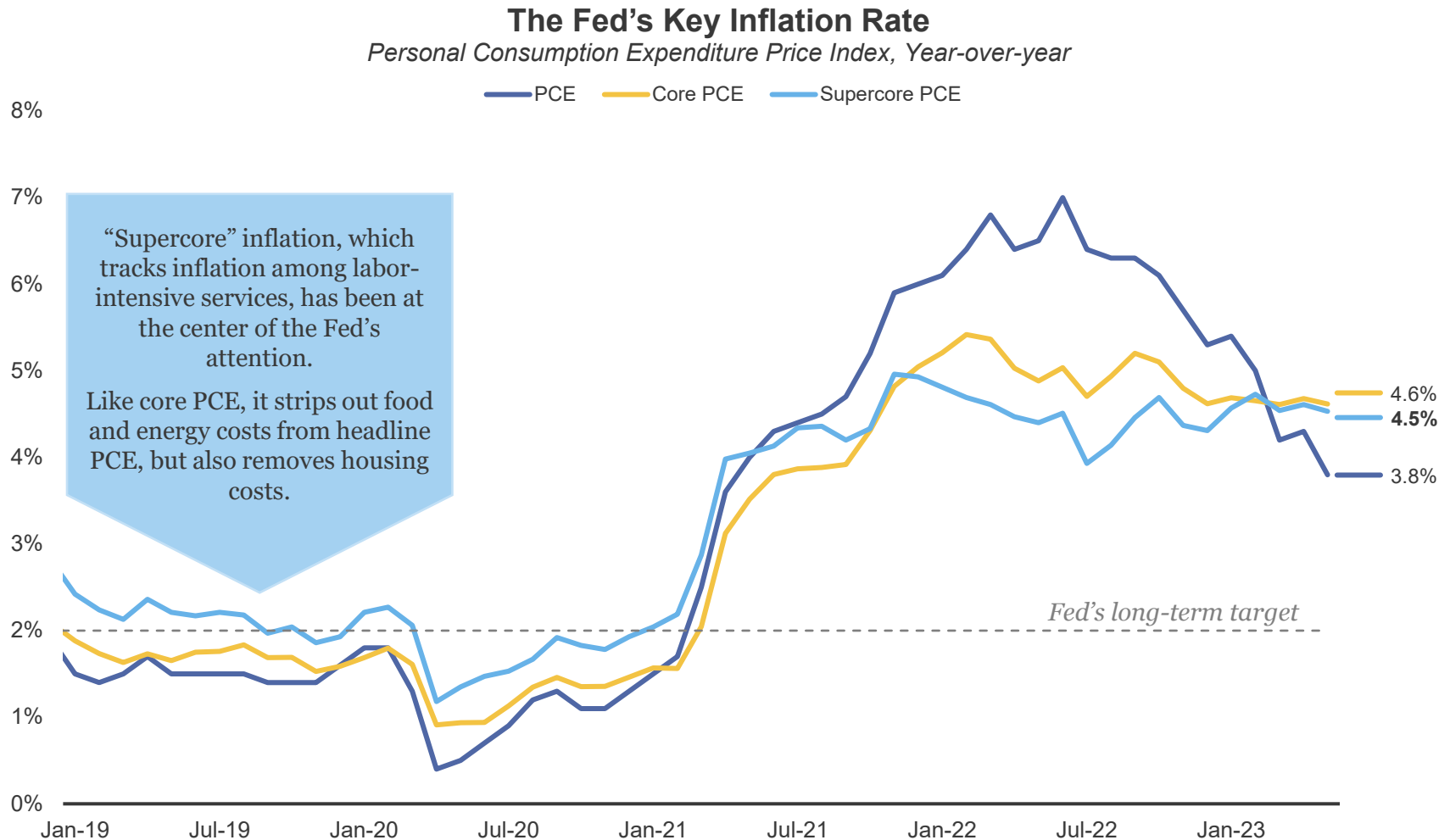


- ▶ Fed temporarily pauses rate hikes
 - ▶ The most aggressive series of interest rate hikes in recent history has come to a temporary pause in June
 - ▶ The Fed's most recent dot plot shows the potential for two additional rate hikes by the end of the year
 - ▶ Rates have moved up due to the Fed's rate trajectory shifting higher, the economy remaining stronger than expected, persistent inflation, and the market's "higher-for-longer" mindset



- ▶ Bond markets see continued volatility
 - ▶ The debt ceiling saga incited a separate spate of market volatility due to concern about a potential U.S. default
 - ▶ After plummeting at the end of Q1 due to volatility in the banking sector, short and medium-term yields steadily climbed throughout the quarter, with the 2-year rising over 100 basis points
 - ▶ The curve inversion fell dramatically at the start of Q2, but moved toward historic levels in June

Inflation Measures Remain Above Fed's Target

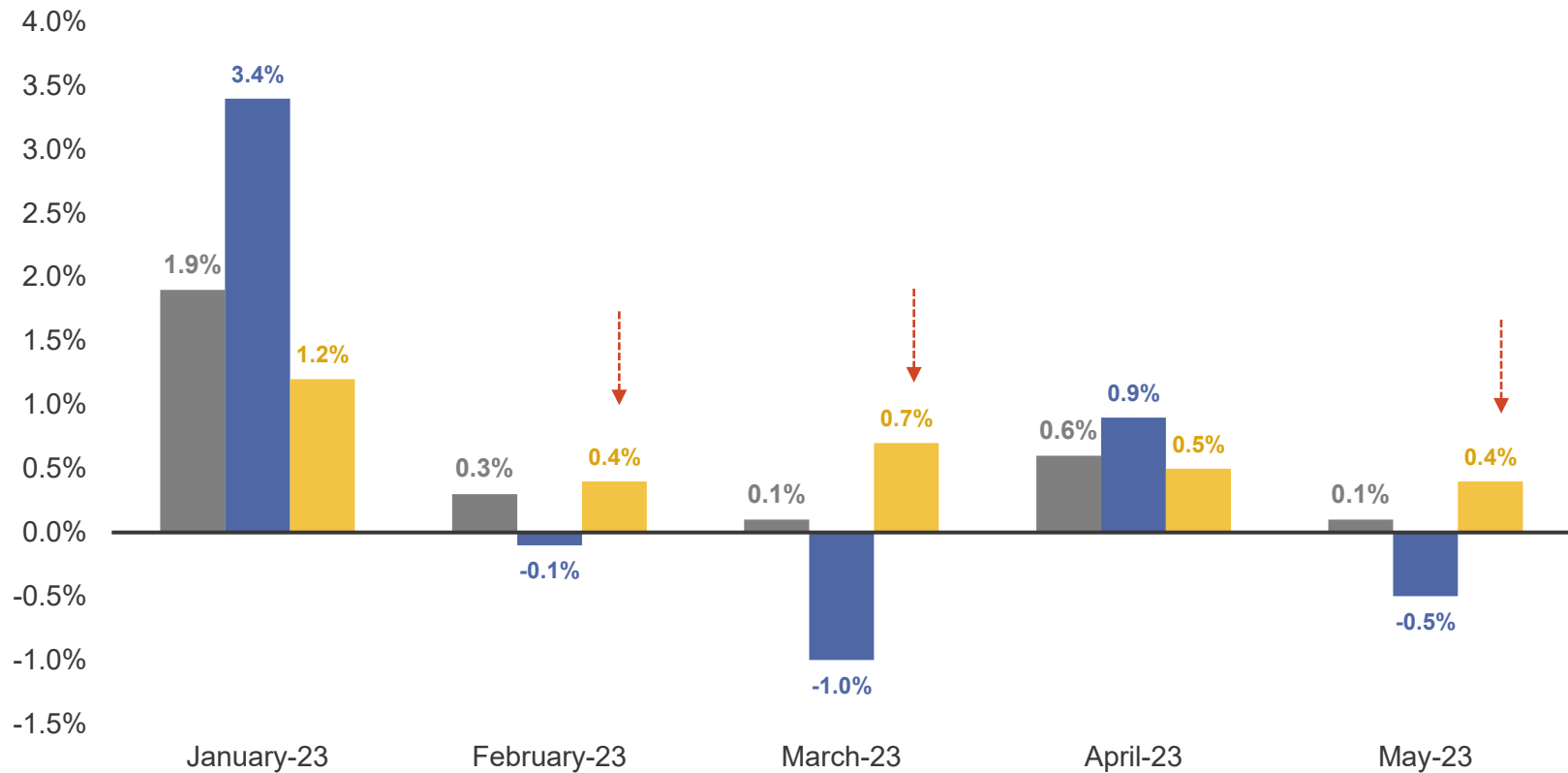


Source: Federal Reserve, Bloomberg, Bureau of Economic Analysis as of May 2023.

Consumers Have Been Spending More on Services

Change in Consumer Spending Month-over-month

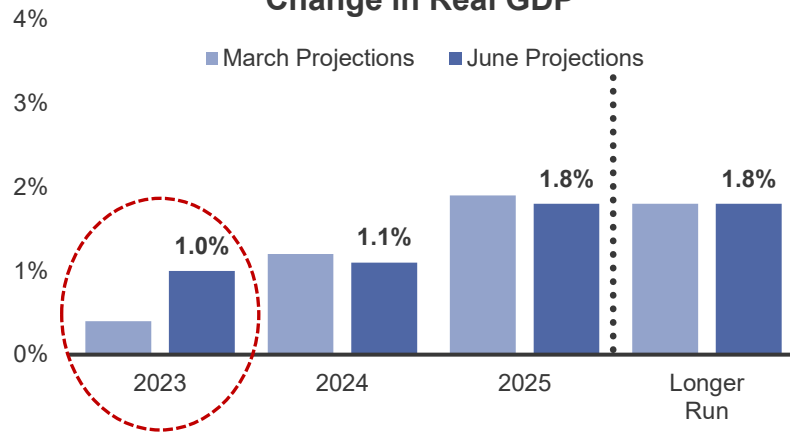
■ Consumer Spending ■ Goods ■ Services



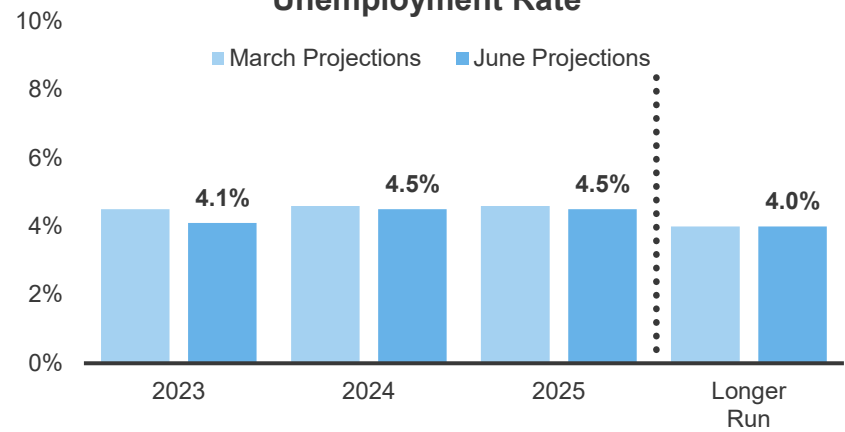
Source: Bloomberg, Bureau of Economic Analysis as of May 2023.

Fed's Updated June Projections Reflect Stronger Economic Expectations for 2023

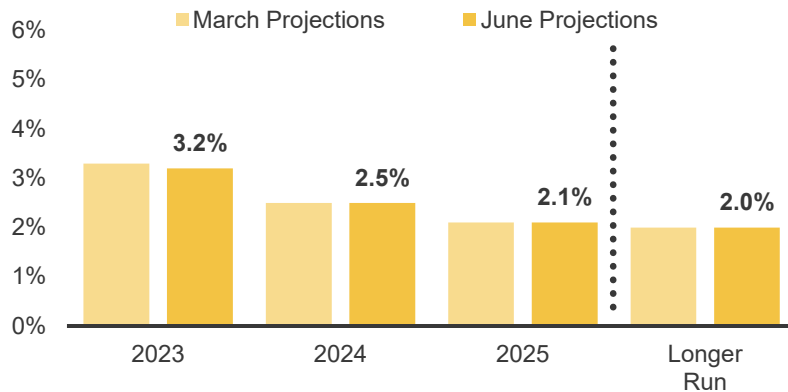
Change in Real GDP



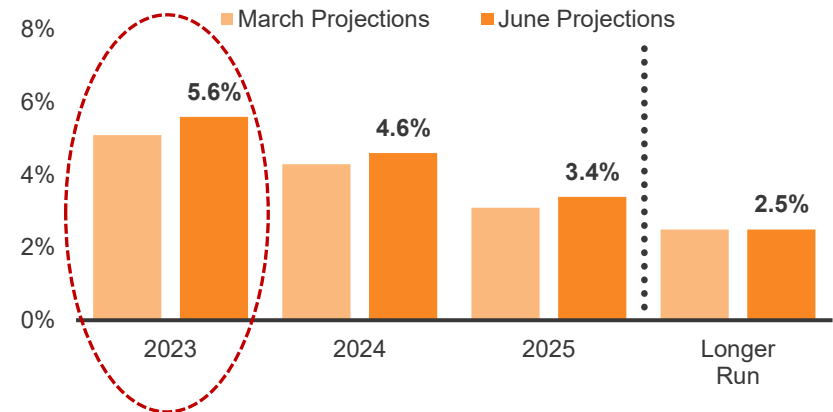
Unemployment Rate



PCE Inflation

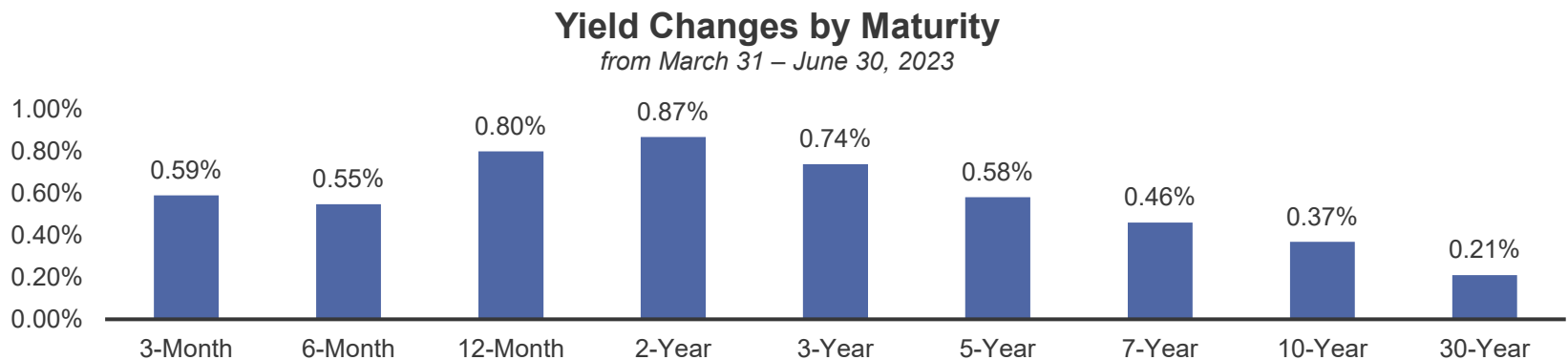
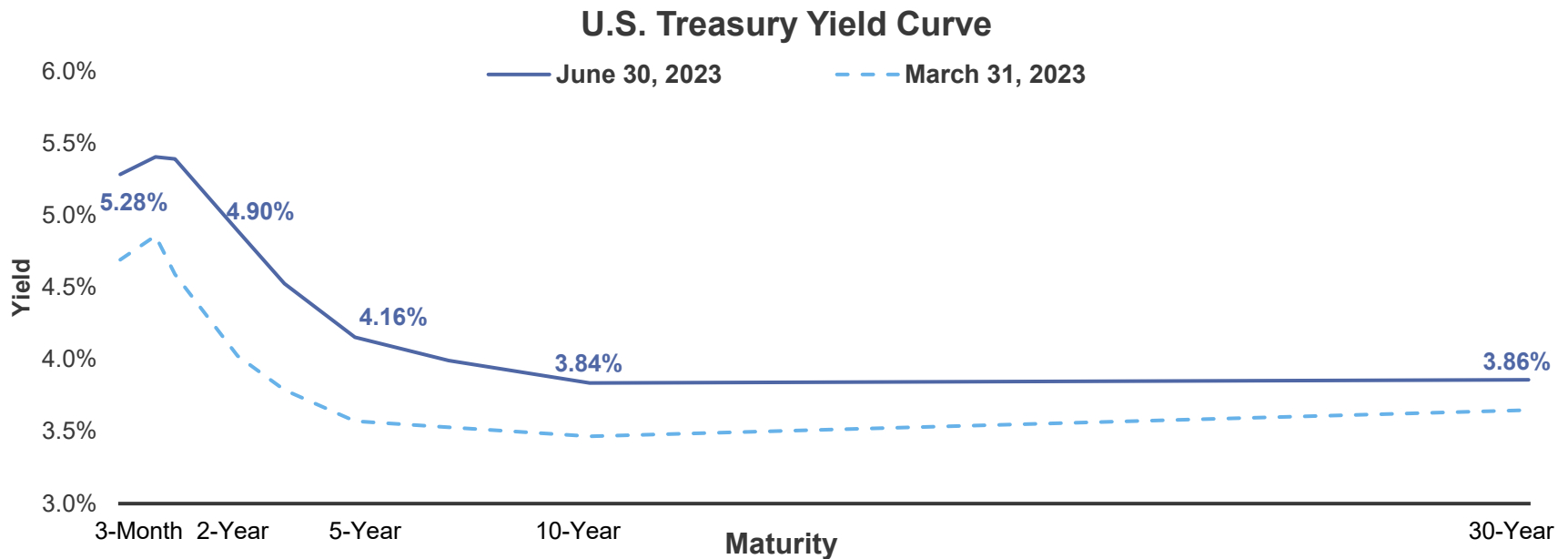


Federal Funds Rate



Source: Federal Reserve, latest economic projections as of June 2023.

Interest Rates Rise As The Markets Align With The Fed's "Higher-for-Longer" Mantra



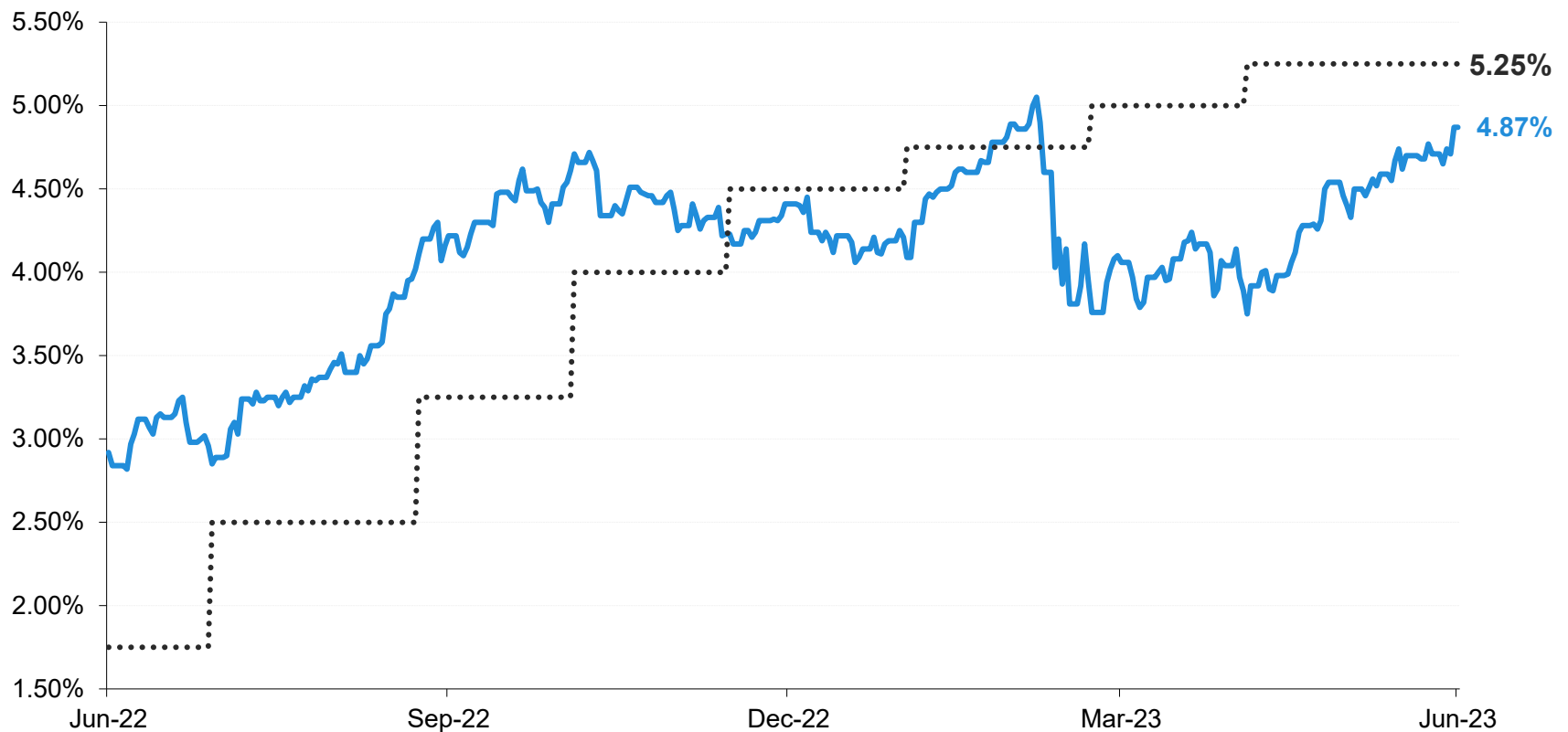
Source: Bloomberg, as of 06/30/2023.

2-Year U.S. Treasury Yield Versus Federal Funds Target Rate

U.S. Treasury Yield vs. Federal Funds Target Rate History

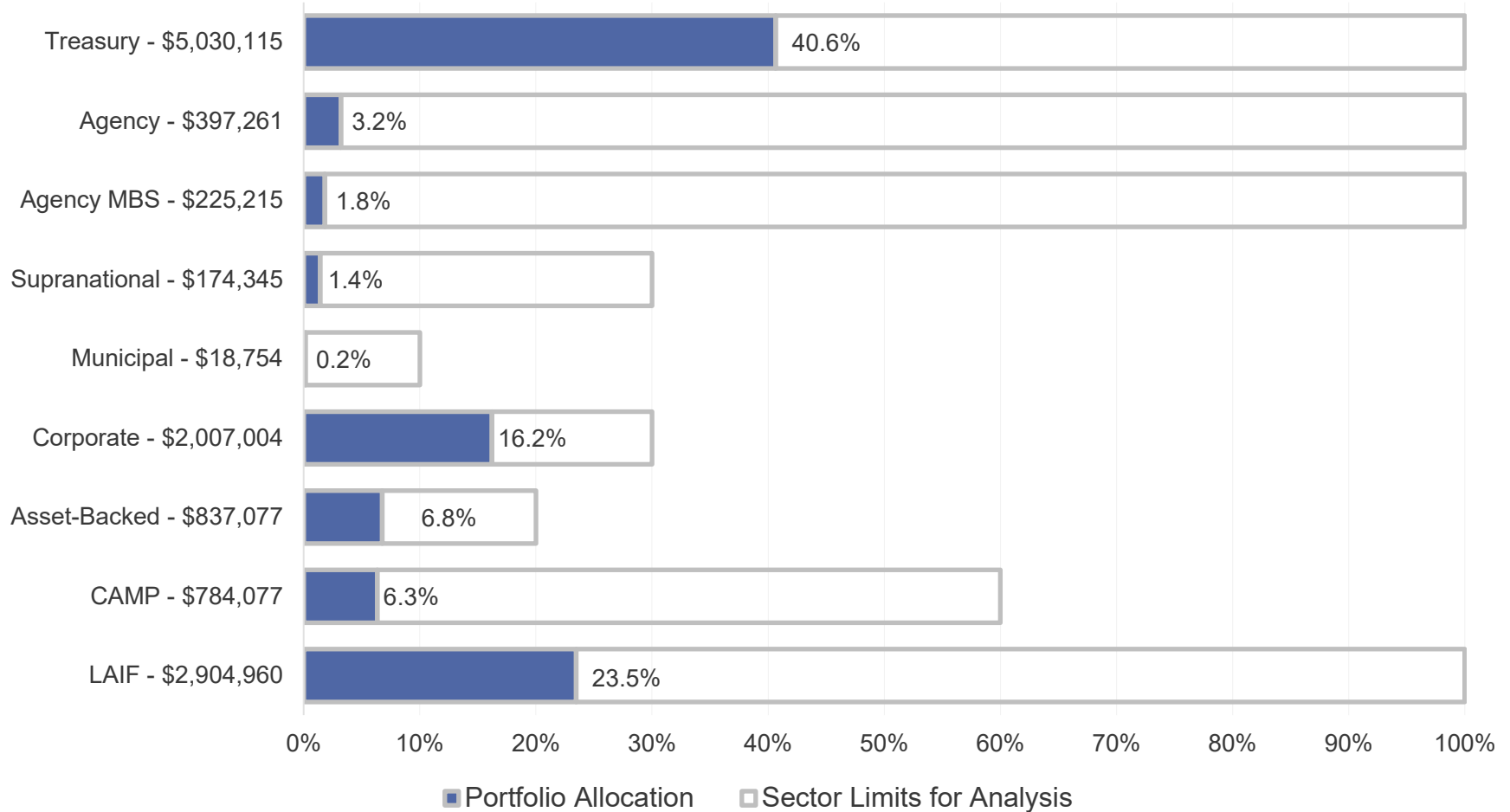
— 2-Year U.S. Treasury

..... Fed Funds-Upper Range



Source: Bloomberg, as of 06/30/2023.

Sector Allocations



Source: Portfolio Values, excluding accrued interest. LAIF as reported by El Toro Water District.

Certificate of Compliance

During the reporting period for the quarter ended June 30, 2023, the account(s) managed by PFM Asset Management ("PFMAM") were in compliance with the applicable investment policy and guidelines as furnished to PFMAM.

Acknowledged : *PFM Asset Management LLC*

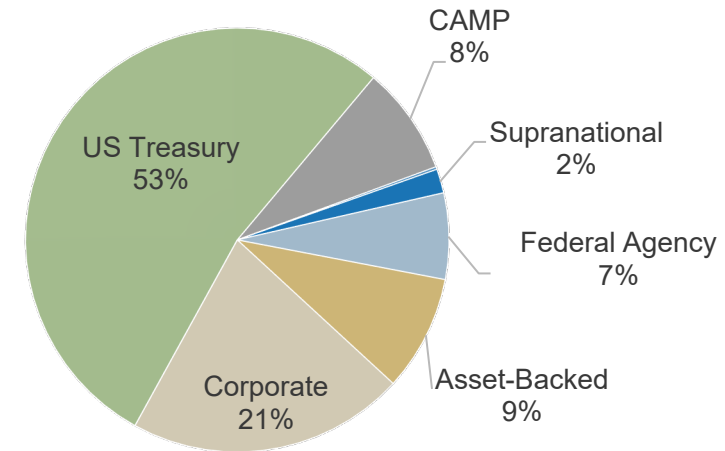
Note: Pre- and post-trade compliance for the account(s) managed by PFM Asset Management is provided via Bloomberg Asset and Investment Management ("AIM").



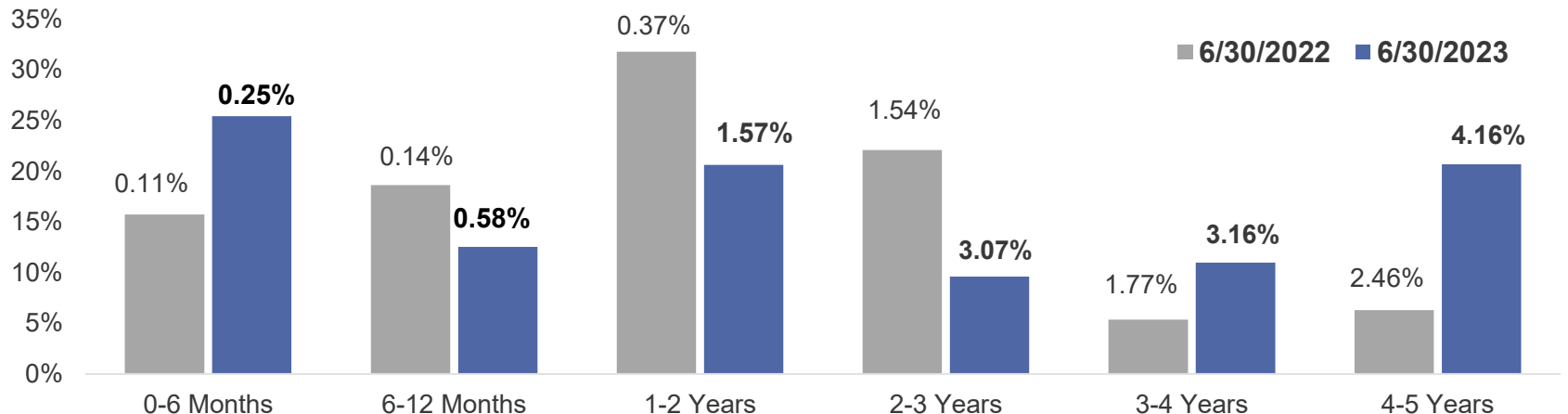
ETWD Operating Portfolio Overview

PFMAM-Managed Portfolio Statistics		
	6/30/22	6/30/23
Total Market Value	\$9.31 million	\$9.47 million
Weighted Avg Maturity	1.66 years	2.15 years
YTM at Cost	0.75%	2.12%
YTM at Market	2.80%	4.72%
Avg Credit Quality*	AA	AA

Sector Allocation



Portfolio Maturity Distribution & YTM-Cost by Maturity



As of June 30, 2023. Market values excluding accrued interest.

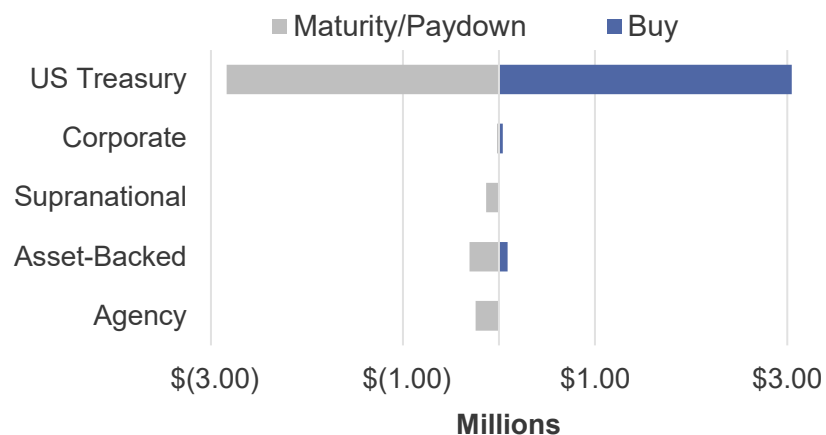
*An average of each security's credit rating was assigned a numeric value and adjusted for its relative weighting in the portfolio.

Strategy Update

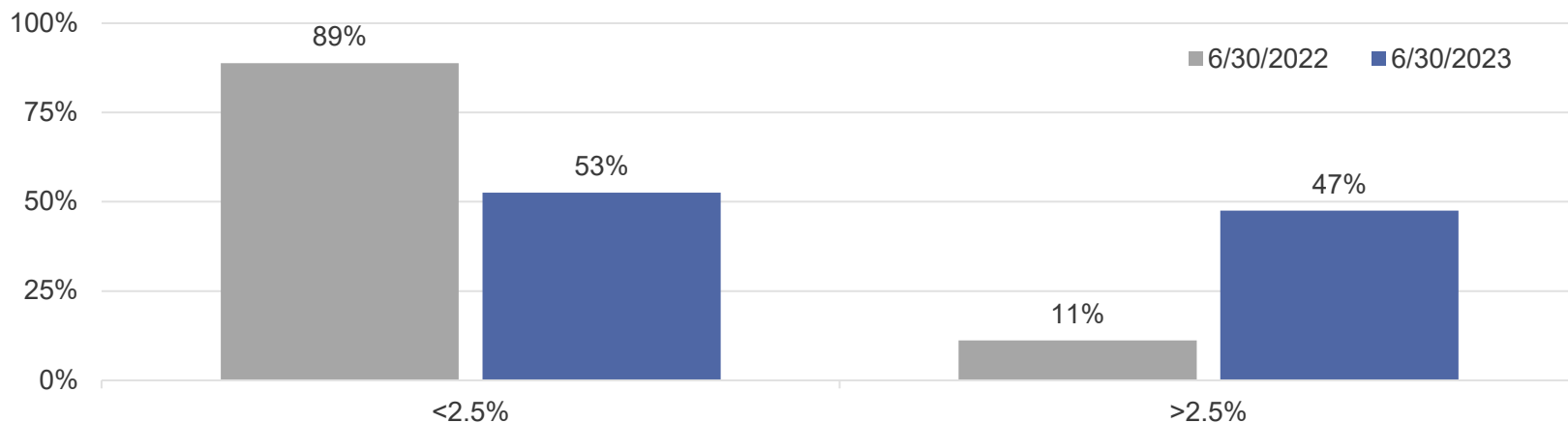
Strategy Direction

- ▶ At the end of 2022, the District changed its strategy direction from actively managed total return account to a cash flow driven yield-based account.
- ▶ The goal was to lock-in attractive longer-term yields consistent with the District's liquidity needs.
- ▶ Over the past year, we have reinvested \$3 million with an average yield of 4.16%.
- ▶ An additional \$2.3 million (27%) with an average yield of 0.43% will mature in the next 12 month.

Gross Trade Activity July 1, 2022 – June 30, 2023

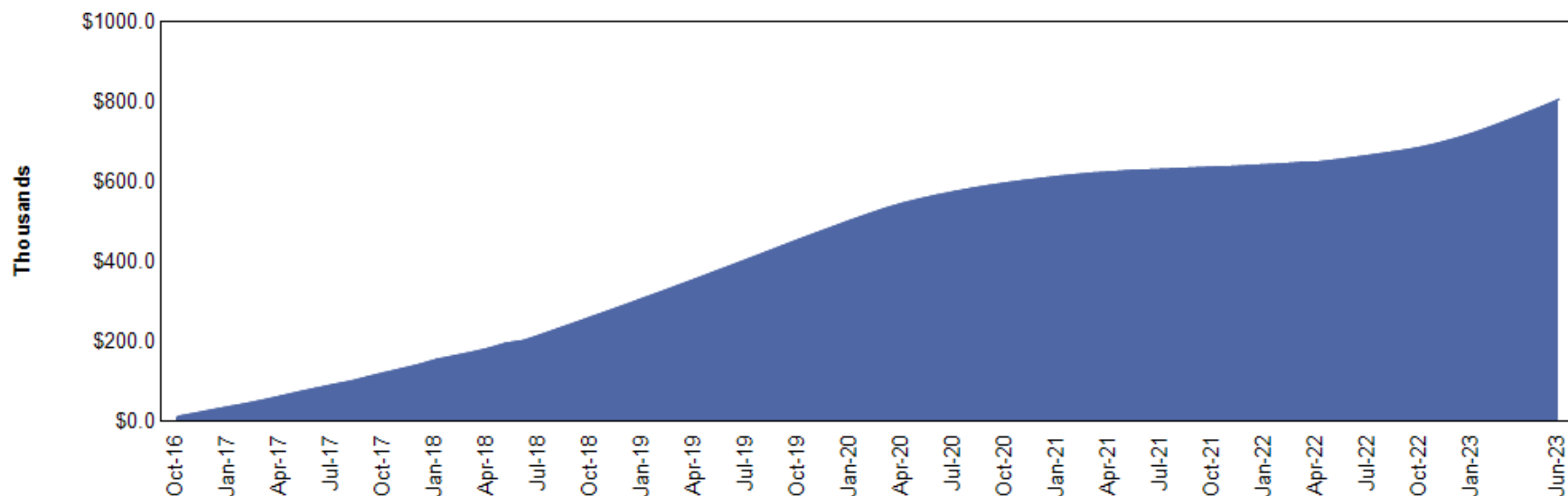


Allocation by Yield Range



Source: Bloomberg, as of 06/27/2022.

ETWD Accrual Basis Earnings



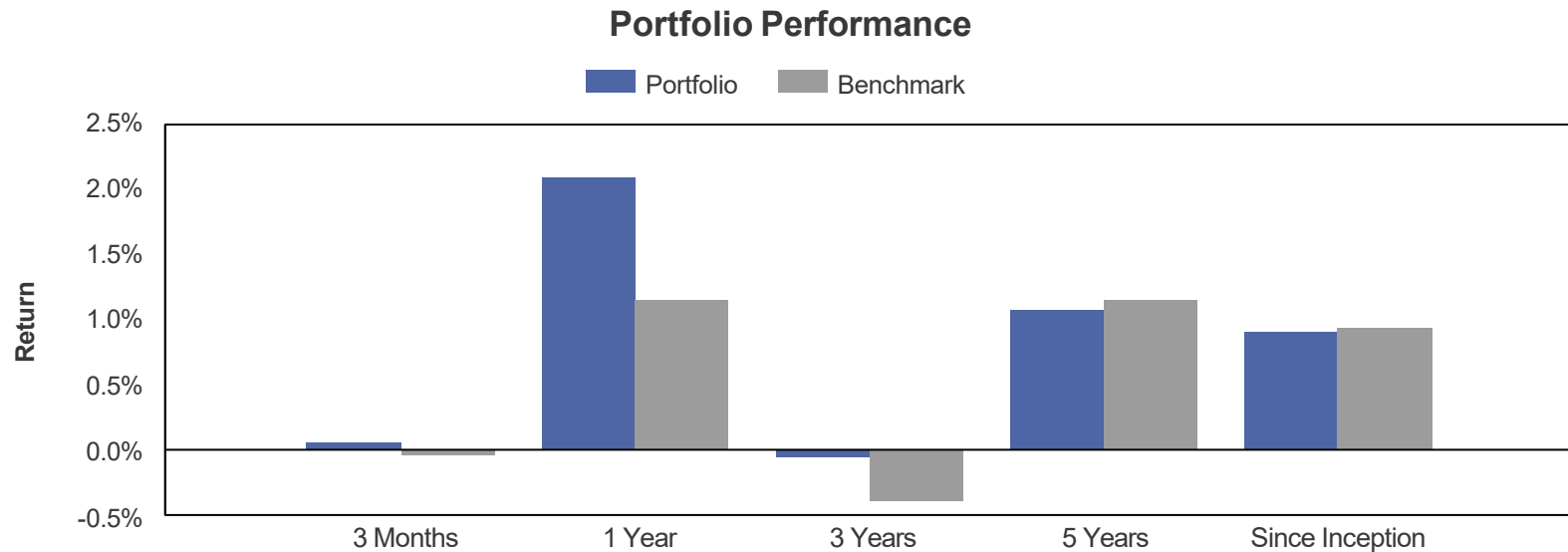
Accrual Basis Earnings	3 Months	1 Year	3 Years	5 Year	Since Inception ¹
Interest Earned ²	\$49,977	\$151,184	\$275,044	\$626,645	\$866,106
Realized Gains / (Losses) ³	-	-	(\$2,688)	(\$3,554)	(\$35,737)
Change in Amortized Cost	\$2,903	(\$4,514)	(\$32,329)	(\$18,527)	(\$24,309)
Total Earnings	\$52,880	\$146,670	\$240,027	\$604,564	\$806,060

1. The lesser of 10 years or since inception is shown. Performance inception date is September 30, 2016.

2. Interest earned calculated as the ending accrued interest less beginning accrued interest, plus net interest activity.

3. Realized gains / (losses) are shown on an amortized cost basis.

ETWD Total Return Performance



Market Value Basis Earnings	3 Months	1 Year	3 Years	5 Years	Since Inception ¹
Interest Earned ²	\$49,977	\$151,184	\$275,044	\$626,645	\$866,106
Change in Market Value	(\$45,296)	\$43,544	(\$288,850)	(\$131,526)	(\$297,673)
Total Dollar Return	\$4,681	\$194,728	(\$13,806)	\$495,119	\$568,433
Total Return³					
Portfolio	0.05%	2.09%	-0.05%	1.07%	0.91%
Benchmark ⁴	-0.04%	1.15%	-0.39%	1.15%	0.94%
Difference	0.09%	0.94%	0.34%	-0.08%	-0.03%

1. The lesser of 10 years or since inception is shown. Since inception returns for periods one year or less are not shown. Performance inception date is September 30, 2016.

2. Interest earned calculated as the ending accrued interest less beginning accrued interest, plus net interest activity.

3. Returns for periods one year or less are presented on a periodic basis. Returns for periods greater than one year are presented on an annualized basis.

4. The portfolio's benchmark is the ICE BofA 0-3 Year U.S. Treasury Index. Source: Bloomberg.

Issuer Distribution

Issuer Diversification

Security Type / Issuer	Market Value (%)	S&P / Moody's / Fitch
U.S. Treasury	57.9%	
UNITED STATES TREASURY	57.9%	AA / Aaa / AAA
Federal Agency	4.6%	
FANNIE MAE	2.8%	AA / Aaa / AAA
FREDDIE MAC	1.7%	AA / Aaa / AAA
Agency CMBS	2.6%	
FREDDIE MAC	2.6%	AA / Aaa / AAA
Supranational	2.0%	
INTER-AMERICAN DEVELOPMENT BANK	2.0%	AAA / Aaa / AAA
Municipal	0.2%	
NEW JERSEY TURNPIKE AUTHORITY	0.2%	AA / A / A
Corporate	23.1%	
3M COMPANY	0.8%	A / A / NR
AMAZON.COM INC	1.7%	AA / A / AA
AMERICAN EXPRESS CO	0.4%	BBB / A / A
AMERICAN HONDA FINANCE	0.7%	A / A / A
APPLE INC	1.0%	AA / Aaa / NR
ASTRAZENECA PLC	0.5%	A / A / A
BANK OF AMERICA CO	1.4%	A / A / AA
BURLINGTON NORTHERN SANTA FE	0.2%	AA / A / NR
CATERPILLAR INC	0.7%	A / A / A
CHARLES SCHWAB	0.8%	A / A / A
CITIGROUP INC	0.8%	BBB / A / A
COMCAST CORP	0.6%	A / A / A
DEERE & COMPANY	0.7%	A / A / A
EXXON MOBIL CORP	0.3%	AA / Aa / NR

Security Type / Issuer	Market Value (%)	S&P / Moody's / Fitch
Corporate	23.1%	
GOLDMAN SACHS GROUP INC	0.6%	BBB / A / A
HOME DEPOT INC	0.1%	A / A / A
HONEYWELL INTERNATIONAL	0.2%	A / A / A
INTEL CORPORATION	0.7%	A / A / A
JP MORGAN CHASE & CO	1.5%	A / A / AA
MERCK & CO INC	0.6%	A / A / NR
MICROSOFT CORP	0.5%	AAA / Aaa / NR
MORGAN STANLEY	0.7%	A / A / A
NATIONAL RURAL UTILITIES CO FINANCE CORP	0.4%	A / A / A
NOVARTIS AG	0.6%	AA / A / AA
PACCAR FINANCIAL CORP	0.7%	A / A / NR
PEPSICO INC	0.2%	A / A / NR
STATE STREET CORPORATION	0.9%	A / A / AA
TARGET CORP	0.7%	A / A / A
THE BANK OF NEW YORK MELLON CORPORATION	1.6%	A / A / AA
TOYOTA MOTOR CORP	0.8%	A / A / A
TRUIST FIN CORP	1.1%	A / A / A
UNITEDHEALTH GROUP INC	0.7%	A / A / A
ABS	9.6%	
ALLY AUTO RECEIVABLES TRUST	0.7%	AAA / Aaa / NR
BMW VEHICLE OWNER TRUST	0.3%	AAA / Aaa / NR
CAPITAL ONE FINANCIAL CORP	2.3%	AAA / Aaa / AAA
CARMAX AUTO OWNER TRUST	0.5%	AAA / Aaa / AAA
DISCOVER FINANCIAL SERVICES	0.6%	AAA / Aaa / NR
FORD CREDIT AUTO LEASE TRUST	0.3%	AAA / NR / AAA

Ratings shown are calculated by assigning a numeral value to each security rating, then calculating a weighted average rating for each security type / issuer category using all available security ratings, excluding Not-Rated (NR) ratings. For security type / issuer categories where a rating from the applicable NRSRO is not available, a rating of NR is assigned. Includes accrued interest and excludes balances invested in overnight funds.

Issuer Diversification

Security Type / Issuer	Market Value (%)	S&P / Moody's / Fitch
ABS	9.6%	
FORD CREDIT AUTO OWNER TRUST	0.7%	AAA / Aaa / AAA
GM FINANCIAL CONSUMER AUTOMOBILE TRUST	0.8%	AAA / Aaa / AAA
HARLEY-DAVIDSON MOTORCYCLE TRUST	0.4%	AAA / Aaa / NR
HONDA AUTO RECEIVABLES	1.5%	AAA / Aaa / AAA
HYUNDAI AUTO RECEIVABLES	0.8%	AAA / NR / AAA
TOYOTA MOTOR CORP	0.7%	AAA / Aaa / AAA
Total	100.0%	

Ratings shown are calculated by assigning a numeral value to each security rating, then calculating a weighted average rating for each security type / issuer category using all available security ratings, excluding Not-Rated (NR) ratings. For security type / issuer categories where a rating from the applicable NRSRO is not available, a rating of NR is assigned. Includes accrued interest and excludes balances invested in overnight funds.

Portfolio Holdings

Managed Account Detail of Securities Held

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
U.S. Treasury											
US TREASURY NOTES DTD 07/15/2020 0.125% 07/15/2023	912828ZY9	400,000.00	AA+	Aaa	2/1/2021	2/3/2021	399,828.13	0.14	230.66	399,997.30	399,187.52
US TREASURY NOTES DTD 07/15/2020 0.125% 07/15/2023	912828ZY9	200,000.00	AA+	Aaa	3/1/2021	3/3/2021	199,687.50	0.19	115.33	199,994.94	199,593.76
US TREASURY NOTES DTD 08/15/2020 0.125% 08/15/2023	91282CAF8	500,000.00	AA+	Aaa	4/1/2021	4/6/2021	498,808.59	0.23	234.81	499,937.73	496,953.10
US TREASURY NOTES DTD 11/15/2020 0.250% 11/15/2023	91282CAW1	90,000.00	AA+	Aaa	4/26/2021	4/27/2021	89,982.42	0.26	28.74	89,997.42	88,326.56
US TREASURY NOTES DTD 02/15/2021 0.125% 02/15/2024	91282CBM2	300,000.00	AA+	Aaa	3/1/2021	3/3/2021	298,734.38	0.27	140.88	299,731.39	290,343.75
US TREASURY N/B NOTES DTD 08/15/2021 0.375% 08/15/2024	91282CCT6	165,000.00	AA+	Aaa	9/1/2021	9/3/2021	164,806.64	0.42	232.46	164,926.21	156,105.48
US TREASURY N/B NOTES DTD 09/15/2021 0.375% 09/15/2024	91282CCX7	35,000.00	AA+	Aaa	10/5/2021	10/7/2021	34,853.71	0.52	38.52	34,939.79	32,987.50
US TREASURY N/B NOTES DTD 01/15/2022 1.125% 01/15/2025	91282CDS7	350,000.00	AA+	Aaa	2/3/2022	2/4/2022	347,046.88	1.42	1,816.47	348,452.08	329,109.38
US TREASURY N/B NOTES DTD 05/15/2022 2.750% 05/15/2025	91282CEQ0	150,000.00	AA+	Aaa	6/1/2022	6/3/2022	149,566.41	2.85	526.83	149,724.63	144,070.32
US TREASURY NOTES DTD 05/31/2019 2.125% 05/31/2026	9128286X3	500,000.00	AA+	Aaa	11/30/2022	11/30/2022	466,542.97	4.20	899.93	472,119.14	467,656.25
US TREASURY NOTES DTD 02/15/2017 2.250% 02/15/2027	912828V98	500,000.00	AA+	Aaa	11/30/2022	11/30/2022	464,531.25	4.10	4,226.52	469,443.37	464,921.90
US TREASURY N/B NOTES DTD 06/30/2022 3.250% 06/30/2027	91282CEW7	500,000.00	AA+	Aaa	2/22/2023	2/23/2023	480,273.44	4.25	44.16	481,863.49	480,859.40
US TREASURY N/B NOTES DTD 09/30/2022 4.125% 09/30/2027	91282CFM8	500,000.00	AA+	Aaa	11/30/2022	11/30/2022	502,500.00	4.01	5,184.43	502,198.30	497,187.50
US TREASURY N/B NOTES DTD 09/30/2022 4.125% 09/30/2027	91282CFM8	500,000.00	AA+	Aaa	2/22/2023	2/23/2023	497,929.69	4.22	5,184.43	498,087.43	497,187.50

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
U.S. Treasury											
US TREASURY N/B NOTES DTD 01/31/2023 3.500% 01/31/2028	91282CGH8	500,000.00	AA+	Aaa	2/22/2023	2/23/2023	485,332.03	4.16	7,299.72	486,373.35	485,625.00
Security Type Sub-Total		5,190,000.00					5,080,424.04	2.64	26,203.89	5,097,786.57	5,030,114.92
Supranational											
INTER-AMERICAN DEVEL BK NOTES DTD 09/23/2021 0.500% 09/23/2024	4581X0DZ8	185,000.00	AAA	Aaa	9/15/2021	9/23/2021	184,863.10	0.52	251.81	184,943.79	174,344.93
Security Type Sub-Total		185,000.00					184,863.10	0.52	251.81	184,943.79	174,344.93
Municipal											
NJ TURNPIKE AUTHORITY TXBL REV BONDS DTD 02/04/2021 0.897% 01/01/2025	646140DN0	20,000.00	AA-	A1	1/22/2021	2/4/2021	20,000.00	0.90	89.70	20,000.00	18,754.20
Security Type Sub-Total		20,000.00					20,000.00	0.90	89.70	20,000.00	18,754.20
Joint Powers Authority											
CAMP Pool		784,077.48	AAAm	NR			784,077.48		0.00	784,077.48	784,077.48
Security Type Sub-Total		784,077.48					784,077.48		0.00	784,077.48	784,077.48
Federal Agency											
FREDDIE MAC NOTES DTD 11/05/2020 0.250% 11/06/2023	3137EAEZ8	155,000.00	AA+	Aaa	1/6/2021	1/8/2021	155,086.95	0.23	59.20	155,010.78	152,318.19
FANNIE MAE NOTES DTD 11/25/2020 0.250% 11/27/2023	3135G06H1	250,000.00	AA+	Aaa	1/6/2021	1/8/2021	250,107.25	0.24	59.03	250,015.18	244,942.75
Security Type Sub-Total		405,000.00					405,194.20	0.23	118.23	405,025.96	397,260.94

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
Corporate											
TOYOTA MOTOR CREDIT CORP CORPORATE NOTES DTD 01/11/2021 0.450% 01/11/2024	89236THU2	70,000.00	A+	A1	1/6/2021	1/11/2021	69,995.80	0.45	148.75	69,999.26	68,148.78
JOHN DEERE CAPITAL CORP CORPORATE NOTES DTD 03/04/2021 0.450% 01/17/2024	24422EVN6	55,000.00	A	A2	3/1/2021	3/4/2021	54,960.95	0.48	112.75	54,992.55	53,488.60
MORGAN STANLEY CORP NOTES (CALLABLE) DTD 01/25/2021 5.515% 01/25/2024	6174468W2	55,000.00	A-	A1	1/20/2021	1/25/2021	55,000.00	0.53	559.21	55,000.00	54,947.70
PACCAR FINANCIAL CORP CORPORATE NOTES DTD 02/02/2021 0.350% 02/02/2024	69371RR24	65,000.00	A+	A1	1/28/2021	2/2/2021	64,924.60	0.39	94.16	64,985.13	62,999.50
MICROSOFT CORP(CALLABLE) NOTE DTD 02/06/2017 2.875% 02/06/2024	594918BX1	45,000.00	AAA	Aaa	11/29/2021	12/1/2021	46,864.35	0.95	521.09	45,400.77	44,326.53
NATIONAL RURAL UTIL COOP CORPORATE NOTES DTD 02/08/2021 0.350% 02/08/2024	63743HEU2	25,000.00	A-	A2	2/1/2021	2/8/2021	24,982.75	0.37	34.76	24,996.50	24,196.35
APPLE INC (CALLABLE) BONDS DTD 02/09/2017 3.000% 02/09/2024	037833CG3	50,000.00	AA+	Aaa	11/1/2021	11/3/2021	52,380.50	0.87	591.67	50,500.34	49,256.85
GOLDMAN SACHS CORP NOTES DTD 03/03/2014 4.000% 03/03/2024	38141GVM3	40,000.00	BBB+	A2	1/21/2021	1/25/2021	44,062.00	0.69	524.44	40,881.95	39,542.92
MERCK & CO INC (CALLABLE) CORP NOTES DTD 03/07/2019 2.900% 03/07/2024	58933YAU9	30,000.00	A+	A1	11/16/2021	11/18/2021	31,377.00	0.88	275.50	30,375.24	29,420.16
CHARLES SCHWAB CORP NOTES (CALLABLE) DTD 03/18/2021 0.750% 03/18/2024	808513BN4	30,000.00	A-	A2	3/16/2021	3/18/2021	29,985.00	0.77	64.38	29,996.43	28,933.17
SUNTRUST BANK (CALLABLE) CORP NOTES DTD 03/18/2019 3.200% 04/01/2024	86787EBC0	60,000.00	A	A2	11/1/2021	11/3/2021	63,197.40	0.96	480.00	60,918.92	58,765.20
COMCAST CORP (CALLABLE) CORPORATE NOTES DTD 10/05/2018 3.700% 04/15/2024	20030NCR0	50,000.00	A-	A3	11/1/2021	11/3/2021	53,305.00	0.96	390.56	50,988.05	49,235.30
BANK OF NY MELLON CORP NOTES (CALLABLE) DTD 04/26/2021 0.500% 04/26/2024	06406RAS6	55,000.00	A	A1	4/19/2021	4/26/2021	54,941.15	0.54	49.65	54,983.89	52,796.43

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
Corporate											
NOVARTIS CAPITAL CORP CORPORATE NOTES DTD 02/21/2014 3.400% 05/06/2024	66989HAG3	50,000.00	AA-	A1	11/1/2021	11/3/2021	53,111.50	0.89	259.72	51,054.17	49,150.75
AMAZON.COM INC CORPORATE NOTES DTD 05/12/2021 0.450% 05/12/2024	023135BW5	80,000.00	AA	A1	5/10/2021	5/12/2021	79,883.20	0.50	49.00	79,966.32	76,594.40
UNITEDHEALTH GROUP INC (CALLABLE) CORP N DTD 05/19/2021 0.550% 05/15/2024	91324PEB4	30,000.00	A+	A3	5/17/2021	5/19/2021	29,968.80	0.59	21.09	29,990.89	28,783.86
UNITEDHEALTH GROUP INC (CALLABLE) CORP N DTD 05/19/2021 0.550% 05/15/2024	91324PEB4	30,000.00	A+	A3	1/21/2022	1/25/2022	29,475.60	1.32	21.09	29,801.09	28,783.86
CATERPILLAR FINL SERVICE CORPORATE NOTES DTD 05/17/2021 0.450% 05/17/2024	14913R2L0	45,000.00	A	A2	5/10/2021	5/17/2021	44,939.70	0.50	24.75	44,982.34	43,036.20
ASTRAZENECA FINANCE LLC (CALLABLE) CORP DTD 05/28/2021 0.700% 05/28/2024	04636NAC7	50,000.00	A	A3	5/25/2021	5/28/2021	49,995.50	0.70	32.08	49,998.64	47,899.65
JOHN DEERE CAPITAL CORP CORPORATE NOTES DTD 06/10/2021 0.450% 06/07/2024	24422EVQ9	10,000.00	A	A2	6/7/2021	6/10/2021	9,987.50	0.49	3.00	9,996.09	9,543.65
TARGET CORP CORPORATE NOTES DTD 06/26/2014 3.500% 07/01/2024	87612EBD7	30,000.00	A	A2	11/23/2021	11/29/2021	31,879.20	1.04	525.00	30,727.82	29,455.38
AMERICAN EXPRESS CO CORP NOTES (CALLABLE DTD 07/30/2019 2.500% 07/30/2024	025816CG2	35,000.00	BBB+	A2	11/19/2021	11/23/2021	36,253.00	1.14	367.01	35,481.42	33,860.51
AMERICAN HONDA FINANCE CORPORATE NOTES DTD 09/09/2021 0.750% 08/09/2024	02665WDY4	30,000.00	A-	A3	9/7/2021	9/9/2021	29,980.20	0.77	88.75	29,992.47	28,488.36
AMERICAN HONDA FINANCE CORPORATE NOTES DTD 09/09/2021 0.750% 08/09/2024	02665WDY4	35,000.00	A-	A3	9/13/2021	9/15/2021	35,025.20	0.72	103.54	35,009.64	33,236.42
CATERPILLAR FINL SERVICE CORPORATE NOTES DTD 09/14/2021 0.600% 09/13/2024	14913R2P1	20,000.00	A	A2	9/7/2021	9/14/2021	19,972.80	0.65	36.00	19,989.07	18,889.12

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
Corporate											
BANK OF NY MELLON CORP (CALLABLE) CORPOR DTD 10/25/2021 0.850% 10/25/2024	06406RAX5	25,000.00	A	A1	10/20/2021	10/25/2021	24,983.75	0.87	38.96	24,992.85	23,490.28
APPLE INC CORP NOTES (CALLABLE) DTD 11/13/2017 2.750% 01/13/2025	037833DF4	40,000.00	AA+	Aaa	3/11/2021	3/15/2021	42,786.40	0.89	513.33	41,042.56	38,528.68
GOLDMAN SACHS GROUP INC (CALLABLE) CORP DTD 01/24/2022 1.757% 01/24/2025	38141GZH0	10,000.00	BBB+	A2	1/19/2022	1/24/2022	10,000.00	1.76	76.62	10,000.00	9,739.04
BANK OF AMERICA CORP CORP NOTES (CALLABL DTD 02/04/2022 1.843% 02/04/2025	06051GKG3	20,000.00	A-	A1	2/1/2022	2/4/2022	20,000.00	1.84	150.51	20,000.00	19,481.20
MERCK & CO INC CORP NOTES DTD 02/10/2015 2.750% 02/10/2025	58933YAR6	20,000.00	A+	A1	3/5/2021	3/9/2021	21,388.80	0.94	215.42	20,515.37	19,285.30
3M COMPANY (CALLABLE) CORP NOTES DTD 08/26/2019 2.000% 02/14/2025	88579YBH3	70,000.00	A-	A2	3/3/2022	3/7/2022	69,743.80	2.13	532.78	69,858.43	66,064.46
JPMORGAN CHASE & CO CORP NOTES (CALLABLE DTD 02/16/2021 0.563% 02/16/2025	46647PBY1	30,000.00	A-	A1	2/9/2021	2/16/2021	30,000.00	0.56	63.34	30,000.00	28,942.23
EXXON MOBIL CORP CORPORATE NT (CALLABLE) DTD 03/06/2015 2.709% 03/06/2025	30231GAF9	30,000.00	AA-	Aa2	4/1/2022	4/5/2022	29,874.30	2.86	259.61	29,927.60	28,810.20
BANK OF AMERICA CORP CORP NOTES (CALLABL DTD 03/15/2019 3.458% 03/15/2025	06051GHR3	40,000.00	A-	A1	7/22/2021	7/26/2021	42,714.40	1.53	407.28	40,727.22	39,223.92
INTEL CORP (CALLABLE) CORPORATE NOTES DTD 03/25/2020 3.400% 03/25/2025	458140BP4	30,000.00	A	A2	3/8/2022	3/10/2022	30,872.70	2.40	272.00	30,487.52	29,043.24
BURLINGTN NORTH SANTA FE CORP NOTES (CAL DTD 03/09/2015 3.000% 04/01/2025	12189LAV3	20,000.00	AA-	A3	3/5/2021	3/9/2021	21,532.60	1.07	150.00	20,604.68	19,253.68
AMAZON.COM INC CORPORATE NOTES DTD 04/13/2022 3.000% 04/13/2025	023135CE4	75,000.00	AA	A1	4/11/2022	4/13/2022	74,880.75	3.06	487.50	74,929.06	72,296.18

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
Corporate											
HOME DEPOT INC (CALLABLE) CORPORATE NOTE DTD 03/28/2022 2.700% 04/15/2025	437076CM2	5,000.00	A	A2	3/24/2022	3/28/2022	4,991.25	2.76	28.50	4,994.86	4,786.02
TARGET CORP (CALLABLE) CORPORATE NOTES DTD 03/31/2020 2.250% 04/15/2025	87612EBL9	30,000.00	A	A2	3/8/2022	3/10/2022	30,014.70	2.23	142.50	30,008.32	28,585.59
BANK OF AMERICA CORP NOTES (CALLABLE) DTD 04/22/2021 0.976% 04/22/2025	06051GJR1	70,000.00	A-	A1	4/16/2021	4/22/2021	70,000.00	0.98	130.95	70,000.00	67,029.97
BANK OF NY MELLON (CALLABLE) CORP NOTES DTD 04/24/2020 1.600% 04/24/2025	06406RAN7	45,000.00	A	A1	3/10/2021	3/12/2021	46,147.50	0.97	134.00	45,492.34	42,187.91
BANK OF NY MELLON CORP (CALLABLE) CORP N DTD 04/26/2022 3.350% 04/25/2025	06406RBC0	20,000.00	A	A1	4/19/2022	4/26/2022	19,997.20	3.36	122.83	19,998.30	19,197.10
PEPSICO INCMCORP NOTES (CALLABLE) DTD 04/30/2015 2.750% 04/30/2025	713448CT3	20,000.00	A+	A1	3/5/2021	3/9/2021	21,400.00	1.02	93.19	20,569.64	19,102.26
CITIGROUP INC (CALLABLE) CORPORATE NOTES DTD 05/04/2021 0.981% 05/01/2025	172967MX6	35,000.00	BBB+	A3	4/27/2021	5/4/2021	35,000.00	0.98	57.23	35,000.00	33,495.70
SUNTRUST BANKS INC (CALLABLE) CORP NOTE DTD 04/26/2018 4.000% 05/01/2025	867914BS1	35,000.00	A-	A3	3/8/2022	3/10/2022	36,372.70	2.69	233.33	35,769.07	33,829.15
CHARLES SCHWAB CORP (CALLABLE) CORP NOTE DTD 05/22/2018 3.850% 05/21/2025	808513AX3	40,000.00	A-	A2	6/1/2022	6/3/2022	40,615.60	3.30	171.11	40,378.88	38,506.96
MORGAN STANLEY CORP NOTES (CALLABLE) DTD 06/01/2021 0.790% 05/30/2025	61747YEA9	10,000.00	A-	A1	5/26/2021	6/1/2021	10,000.00	0.79	6.80	10,000.00	9,497.27
JPMORGAN CHASE & CO (CALLABLE) CORP NOTE DTD 06/01/2021 0.824% 06/01/2025	46647PCH7	25,000.00	A-	A1	5/24/2021	6/1/2021	25,000.00	0.82	17.17	25,000.00	23,756.30
HONEYWELL INTL CORP NOTES (CALLABLE) DTD 05/18/2020 1.350% 06/01/2025	438516CB0	20,000.00	A	A2	3/5/2021	3/9/2021	20,360.40	0.91	22.50	20,159.49	18,636.70

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
Corporate											
NATIONAL RURAL UTIL COOP CORPORATE NOTES DTD 05/04/2022 3.450% 06/15/2025	63743HFE7	10,000.00	A-	A2	4/27/2022	5/4/2022	9,997.30	3.46	15.33	9,998.30	9,621.25
INTEL CORP NOTES (CALLABLE) DTD 07/29/2015 3.700% 07/29/2025	458140AS9	35,000.00	A	A2	4/4/2022	4/6/2022	35,821.45	2.95	546.78	35,490.37	34,057.84
CITIGROUP INC CORP NOTE (CALLABLE) DTD 11/03/2021 1.281% 11/03/2025	172967ND9	20,000.00	BBB+	A3	10/27/2021	11/3/2021	20,000.00	1.28	41.28	20,000.00	18,724.36
STATE STREET CORP (CALLABLE) CORPORATE N DTD 02/07/2022 1.746% 02/06/2026	857477BR3	20,000.00	A	A1	2/2/2022	2/7/2022	20,000.00	1.75	140.65	20,000.00	18,634.62
CITIGROUP INC CORP NOTES (CALLABLE) DTD 03/17/2022 3.290% 03/17/2026	172967NL1	15,000.00	BBB+	A3	3/10/2022	3/17/2022	15,000.00	3.29	142.57	15,000.00	14,326.85
STATE STREET CORP NOTES (CALLABLE) DTD 10/29/2020 2.901% 03/30/2026	857477BM4	60,000.00	A	A1	2/17/2022	2/22/2022	61,207.80	2.38	439.99	60,680.72	57,289.38
JPMORGAN CHASE & CO (CALLABLE) CORPORATE DTD 04/26/2022 4.080% 04/26/2026	46647PCZ7	80,000.00	A-	A1	4/19/2022	4/26/2022	80,000.00	4.08	589.33	80,000.00	77,800.40
Security Type Sub-Total		2,080,000.00					2,117,152.10	1.36	11,621.34	2,092,634.57	2,007,003.69
Agency CMBS											
FHMS K724 A2 DTD 01/01/2017 3.062% 11/01/2023	3137BTU25	49,458.56	AA+	Aaa	1/28/2021	2/2/2021	52,798.95	0.58	126.20	49,868.61	49,029.91
FHLMC MULTIFAMILY STRUCTURED POOL DTD 11/01/2017 3.064% 08/01/2024	3137FBTA4	91,776.97	AA+	Aaa	5/25/2022	5/31/2022	91,898.86	3.00	234.34	91,837.99	89,296.86
FHMS K047 A2 DTD 07/30/2015 3.329% 05/01/2025	3137BKRJ1	90,000.00	AA+	Aaa	5/19/2022	5/24/2022	90,576.56	3.10	249.68	90,360.01	86,888.13
Security Type Sub-Total		231,235.53					235,274.37	2.51	610.22	232,066.61	225,214.90

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
ABS											
FORDL 2021-B A3 DTD 09/24/2021 0.370% 10/15/2024	345329AC0	28,426.55	AAA	NR	9/21/2021	9/24/2021	28,421.56	0.38	4.67	28,424.44	28,276.85
HAROT 2021-1 A3 DTD 02/24/2021 0.270% 04/21/2025	43813GAC5	10,108.03	NR	Aaa	2/17/2021	2/24/2021	10,107.83	0.27	0.76	10,107.94	9,867.41
HAROT 2021-2 A3 DTD 05/26/2021 0.330% 08/15/2025	43811JAC1	24,711.56	AAA	Aaa	5/18/2021	5/26/2021	24,710.60	0.33	3.62	24,711.08	24,039.88
FORDO 2021-A A3 DTD 02/22/2021 0.300% 08/15/2025	34532NAC9	14,448.09	AAA	Aaa	2/17/2021	2/22/2021	14,446.87	0.30	1.93	14,447.51	14,050.30
GMCAR 2021-1 A3 DTD 01/20/2021 0.350% 10/16/2025	36261LAC5	6,472.58	AAA	Aaa	1/12/2021	1/20/2021	6,471.54	0.35	0.94	6,472.08	6,316.25
HAROT 2021-3 A3 DTD 08/25/2021 0.410% 11/18/2025	43815EAC8	33,395.57	AAA	NR	8/17/2021	8/25/2021	33,395.09	0.41	4.94	33,395.30	32,137.44
CARMX 2021-1 A3 DTD 01/27/2021 0.340% 12/15/2025	14316NAC3	7,380.21	AAA	NR	1/20/2021	1/27/2021	7,378.76	0.34	1.12	7,379.48	7,166.61
HAROT 2021-4 A3 DTD 11/24/2021 0.880% 01/21/2026	43815GAC3	25,000.00	NR	Aaa	11/16/2021	11/24/2021	24,994.73	0.89	6.11	24,996.76	24,035.21
TAOT 2021-D A3 DTD 11/15/2021 0.710% 04/15/2026	89238JAC9	30,000.00	AAA	NR	11/9/2021	11/15/2021	29,999.36	0.71	9.47	29,999.60	28,767.21
HAROT 2022-1 A3 DTD 02/23/2022 1.880% 05/15/2026	43815BAC4	45,000.00	AAA	Aaa	2/15/2022	2/23/2022	44,993.23	1.88	37.60	44,995.39	43,012.76
HART 2021-C A3 DTD 11/17/2021 0.740% 05/15/2026	44935FAD6	20,000.00	AAA	NR	11/9/2021	11/17/2021	19,995.54	0.75	6.58	19,997.15	19,223.22
FORDO 2022-A A3 DTD 01/24/2022 1.290% 06/15/2026	345286AC2	25,000.00	AAA	NR	1/19/2022	1/24/2022	24,997.03	1.29	14.33	24,998.00	24,002.01
BMWOT 2022-A A3 DTD 05/18/2022 3.210% 08/25/2026	05602RAD3	25,000.00	AAA	Aaa	5/10/2022	5/18/2022	24,998.70	3.21	13.38	24,999.04	24,308.94
COPAR 2021-1 A3 DTD 10/27/2021 0.770% 09/15/2026	14044CAC6	25,000.00	AAA	Aaa	10/19/2021	10/27/2021	24,999.53	0.77	8.56	24,999.69	23,878.20
FORDO 2022-B A3 DTD 06/27/2022 3.740% 09/15/2026	34534LAD9	25,000.00	NR	Aaa	6/22/2022	6/27/2022	24,998.65	3.74	41.56	24,998.97	24,429.01
DCENT 2021-A1 A1 DTD 09/27/2021 0.580% 09/15/2026	254683CP8	55,000.00	AAA	Aaa	9/20/2021	9/27/2021	54,988.22	0.58	14.18	54,992.39	51,755.27
TAOT 2022-B A3 DTD 04/13/2022 2.930% 09/15/2026	89238FAD5	30,000.00	AAA	Aaa	4/7/2022	4/13/2022	29,999.30	2.93	39.07	29,999.49	29,008.43

Security Type/Description Dated Date/Coupon/Maturity	CUSIP	Par	S&P Rating	Moody's Rating	Trade Date	Settle Date	Original Cost	YTM at Cost	Accrued Interest	Amortized Cost	Market Value
ABS											
GMCAR 2021-4 A3 DTD 10/21/2021 0.680% 09/16/2026	362554AC1	25,000.00	AAA	Aaa	10/13/2021	10/21/2021	24,999.36	0.68	7.08	24,999.58	23,924.96
HART 2022-A A3 DTD 03/16/2022 2.220% 10/15/2026	448977AD0	55,000.00	AAA	NR	3/9/2022	3/16/2022	54,997.88	2.22	54.27	54,998.48	52,806.15
COMET 2021-A3 A3 DTD 11/30/2021 1.040% 11/15/2026	14041NFY2	50,000.00	AAA	NR	11/18/2021	11/30/2021	49,993.11	1.04	23.11	49,995.31	47,066.62
ALLYA 2022-1 A3 DTD 05/18/2022 3.310% 11/15/2026	02008JAC0	60,000.00	AAA	Aaa	5/10/2022	5/18/2022	59,988.38	3.31	88.27	59,991.27	58,430.13
GMCAR 2022-1 A3 DTD 01/19/2022 1.260% 11/16/2026	380146AC4	20,000.00	AAA	NR	1/11/2022	1/19/2022	19,998.26	1.26	10.50	19,998.78	19,095.09
HDMOT 2022-A A3 DTD 04/20/2022 3.060% 02/15/2027	41284YAD8	35,000.00	AAA	Aaa	4/12/2022	4/20/2022	34,994.17	3.06	47.60	34,995.62	34,009.10
GMCAR 2022-2 A3 DTD 04/13/2022 3.100% 02/16/2027	362585AC5	25,000.00	AAA	Aaa	4/5/2022	4/13/2022	24,994.78	3.10	32.29	24,996.09	24,161.14
CARMX 2022-2 A3 DTD 04/28/2022 3.490% 02/16/2027	14317HAC5	35,000.00	AAA	Aaa	4/21/2022	4/28/2022	34,994.68	3.49	54.29	34,995.98	34,079.65
COMET 2022-A1 A1 DTD 03/30/2022 2.800% 03/15/2027	14041NFZ9	70,000.00	AAA	NR	3/23/2022	3/30/2022	69,994.72	2.80	87.11	69,996.06	67,031.76
COMET 2022-A2 A DTD 06/14/2022 3.490% 05/15/2027	14041NGA3	65,000.00	AAA	NR	6/6/2022	6/14/2022	64,989.61	3.49	100.82	64,991.82	62,838.08
Security Type Sub-Total		869,942.59					869,841.49	1.93	714.16	869,873.30	837,717.68
Managed Account Sub Total		8,981,178.12					8,912,749.30	2.12	39,609.35	8,902,330.80	8,690,411.26
Securities Sub Total		\$9,765,255.60					\$9,696,826.78	2.12%	\$39,609.35	\$9,686,408.28	\$9,474,488.74
Accrued Interest											\$39,609.35
Total Investments											\$9,514,098.09

Important Disclosures

This material is for general information purposes only and is not intended to provide specific advice or a specific recommendation, as it was prepared without regard to any specific objectives or financial circumstances.

Investment advisory services are provided by PFM Asset Management LLC ("PFMAM"), an investment adviser registered with the U.S. Securities and Exchange Commission and a subsidiary of U.S. Bancorp Asset Management, Inc. ("USBAM"). USBAM is a subsidiary of U.S. Bank National Association ("U.S. Bank"). U.S. Bank is a separate entity and subsidiary of U.S. Bancorp. U.S. Bank is not responsible for and does not guarantee the products, services or performance of PFMAM. The information contained is not an offer to purchase or sell any securities. Additional applicable regulatory information is available upon request.

PFMAM professionals have exercised reasonable professional care in the preparation of this performance report. Information in this report is obtained from sources external to PFMAM and is generally believed to be reliable and available to the public; however, we cannot guarantee its accuracy, completeness or suitability. We rely on the client's custodian for security holdings and market values. Transaction dates reported by the custodian may differ from money manager statements. While efforts are made to ensure the data contained herein is accurate and complete, we disclaim all responsibility for any errors that may occur. References to particular issuers are for illustrative purposes only and are not intended to be recommendations or advice regarding such issuers. Fixed income manager and index characteristics are gathered from external sources. When average credit quality is not available, it is estimated by taking the market value weights of individual credit tiers on the portion of the strategy rated by a NRSRO.

It is not possible to invest directly in an index. The index returns shown throughout this material do not represent the results of actual trading of investor assets. Third-party providers maintain the indices shown and calculate the index levels and performance shown or discussed. Index returns do not reflect payment of any sales charges or fees an investor would pay to purchase the securities they represent. The imposition of these fees and charges would cause investment performance to be lower than the performance shown.

The views expressed within this material constitute the perspective and judgment of PFMAM at the time of distribution and are subject to change. Any forecast, projection, or prediction of the market, the economy, economic trends, and equity or fixed-income markets are based upon certain assumptions and current opinion as of the date of issue and are also subject to change. Some, but not all assumptions are noted in the report. Assumptions may or may not be proven correct as actual events occur, and results may depend on events outside of your or our control. Changes in assumptions may have a material effect on results. Opinions and data presented are not necessarily indicative of future events or expected performance.

For more information regarding PFMAM's services or entities, please visit www.pfmam.com.

© 2023 PFM Asset Management LLC. Further distribution is not permitted without prior written consent.

Important Disclosures

This information is for institutional investor use only, not for further distribution to retail investors, and does not represent an offer to sell or a solicitation of an offer to buy or sell any fund or other security. Investors should consider the Trust's investment objectives, risks, charges, and expenses before investing in the Trust. This and other information about the Trust is available in the Trust's current Information Sheet, which should be read carefully before investing. A copy of the Trust's information Statement may be available by calling 1-800-729-7665 or is available on the Trust's website at www.camponline.com. While the Cash Reserve Portfolio seeks to maintain a stable net asset value of \$1.00 per share and the CAMP TERM Portfolio seeks to achieve a net asset value of \$1.00 per share at the stated maturity, it is possible to lose money investing in the Trust. An investment in the Trust is not insured or guaranteed by the Federal Deposit Insurance Corporation or any other government agency. Shares of the Trust are distributed by PFM Fund Distributors, Inc., member Financial Industry Regulatory Authority (FINRA) (www.finra.org) and Securities Investor Protection Corporation (SIPC) (www.sipc.org). PFM Fund Distributors, Inc. is an affiliate of PFM Asset Management LLC.

- Market values that include accrued interest are derived from closing bid prices as of the last business day of the month as supplied by Refinitiv, Bloomberg, or Telerate. Where prices are not available from generally recognized sources, the securities are priced using a yield-based matrix system to arrive at an estimated market value.
- In accordance with generally accepted accounting principles, information is presented on a trade date basis; forward settling purchases are included in the monthly balances, and forward settling sales are excluded.
- Performance is presented in accordance with the CFA Institute's Global Investment Performance Standards (GIPS). Unless otherwise noted, performance is shown gross of fees. Quarterly returns are presented on an unannualized basis. Returns for periods greater than one year are presented on an annualized basis. Past performance is not indicative of future returns.
- Bank of America/Merrill Lynch Indices provided by Bloomberg Financial Markets.
- Money market fund/cash balances are included in performance and duration computations.
- Standard & Poor's is the source of the credit ratings. Distribution of credit rating is exclusive of money market fund/LGIP holdings.
- Callable securities in the portfolio are included in the maturity distribution analysis to their stated maturity date, although, they may be called prior to maturity.
- MBS maturities are represented by expected average life.

MINUTES OF THE REGULAR MEETING
& OF THE
ENGINEERING COMMITTEE MEETING

June 19, 2023

At approximately 9:10 a.m. Director Freshley called the Engineering Committee meeting to order.

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

Also participating were DENNIS P. CAFFERTY, General Manager, HANNAH FORD, Engineering Manager, GILBERT J. GRANITO, General Counsel, RORY HARNISCH, Project Engineer (9:50 a.m.), VISHAV SHARMA, CFO, 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 and unanimously carried across the Board to approve the Consent Calendar.

Roll Call Vote:

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

Engineering Action Items

There were no action items.

Engineering Information Items

Asset Management Plan Digital Dashboard Demonstration

Ms. Ford stated that staff worked with Hazen and Sawyer (Hazen) to develop the Asset Management Plan's digital dashboard. She walked through a presentation demonstrating key features of the dashboard.

Ms. Ford stated that the next phase of the Asset Management Program will focus on the WRP. To wrap up the Pump Station Asset Management Plan, Hazen will submit a report documenting methodology and findings, and the District will take ownership of the PowerBI dashboards presented. Hazen and the District will also evaluate the computerized maintenance management system in order to integrate information for real-time updates of the condition scores for assets to automate remaining useful life calculations in real time.

Capital Projects Status Report

R-6 Reservoir Floating Cover and Liner Replacement Project

Ms. Ford stated that the appurtenances for the control panels are not on schedule and are the most delayed piece. She further stated that filling of the Reservoir should not take place until these are installed. She stated that the existing control panels could be used to test valve operation prior to the new control panel arrival as a method to expedite schedule.

Ms. Ford stated that the dirt that was piled near the Reservoir has been reused at the Filter Building site for the hillside repairs.

Director Monin asked if we can consider gravel for the roadway instead of asphalt. Ms. Ford replied that staff will look into options.

Ms. Ford stated that staff investigated installing solar panels on the cover, but the cost of doing so, especially compared to the cost of electricity at the site, and ponding concerns caused by the additional weight of the panels on the cover would not work for this project.

Filter Building and Clearwell Demolition Project

Ms. Ford stated that the demolition and hillside repair are complete. She further stated that staff filed a Notice of Completion this month and plans to pay final retention and close out the project in July.

New Warehouse

Mr. Harnisch stated that staff executed a Construction Agreement and Notice to Proceed with the Contractor, Dumarc. He further stated that staff and the Engineer, Richard Brady & Associates (Brady), are in the submittal phase of the project and will hold the preconstruction meeting in June and continue working with Dumarc leading up to the September 1st construction start date.

DAF Unit 2 Retrofit and Rehabilitation

Mr. Harnisch stated that staff finalized construction bid documents in June and held a mandatory pre-bid meeting at the WRP with 3 prospective bidders in attendance. He further stated that bid opening is scheduled for July 12th via PlanetBids, and staff intends to recommend award at the July Board meeting.

Mr. Harnisch stated that staff issued a purchase order to the original equipment manufacturer, Ovivo, to pre-purchase long lead mechanical components back in December 2022. He further stated that staff approved the equipment submittal and released them for fabrication, and are scheduled for delivery in late September.

Mathis Lift Station (Mathis) Inlet Repair

Mr. Harnisch stated that while attempting to remove a blockage from the influent drop pipe at the Mathis Lift Station, staff noticed a pipe section break at the entrance to the wet well. He further stated that the piping is encased in concrete, so sewage is not actively spilling, however the piping needs to be fixed to prevent additional blockage and erosion.

Mr. Harnisch stated that staff investigated alternatives and determined the most effective option is to install a new pipeline from the upstream manhole in Paseo de Valencia to a new manhole inside Mathis, followed by a connecting pipeline between the proposed manhole and wet well. He further stated that staff solicited Dudek to prepare construction documents and anticipates completing design by early August, bidding, and recommending for award at the September Board meeting.

Cathodic Protection Repair on Moulton Parkway

Ms. Ford stated that the District owns and maintains a 16-inch water main in Moulton Parkway. She further stated that staff install an impressed current cathodic protection system along the Reinforced Concrete Cylinder Pipe for corrosion control in 2001.

Ms. Ford stated that in 2016 staff suspected that the pipeline was not receiving cathodic protection from the rectifier and hired the Farwest Corrosion Control Company to confirm whether there was a discontinuity, and they determined that the discontinuity was present between station ETS-D7 and ETS-D6.

Ms. Ford stated that in order to bring the cathodic protection system back into service, the District needs to determine where discontinuity is along the pipeline and repair. She further stated that as a first step Farwest will survey the 1,000 feet of piping

along Moulton Parkway to narrow the location of the discontinuity to a 20-foot radius.

Ms. Ford stated that once identified, staff will excavate and repair, install a new cathodic protection test station, and test to determine whether the repair sufficiently restored cathodic protection along the 16-inch water main. She further stated that this project was budgeted in previous fiscal years at a total cost of \$100,000, and the proposed approach will reduce cost to less than \$20,000, and should more than one discontinuity require repair, additional cost will be approximately \$8,000 per discontinuity.

Fleet Update

Ms. Ford stated that delivery of the Boom Truck is anticipated this week. She further stated that the District finally received the WRP forklift.

Engineering Items Discussed at Various Conferences and Meetings

Director Freshley stated that she attended the ACWA Energy Committee meeting where they discussed carbon issues and electric vehicles.

Comments Regarding Non-Agenda Engineering Committee Items

There were no comments.

Adjournment

There being no further business, the Engineering Committee meeting was adjourned at approximately 10:21 a.m.

Attorney Report

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

Adjournment

At approximately 10:21 a.m. the meeting was adjourned.

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: July 24, 2023

From: Rory Harnisch, Senior Engineer

Subject: DAF Unit No. 2 Rehabilitation and Retrofit Project

BACKGROUND

Originally constructed in 1985, the Dissolved Air Flotation (DAF) Unit No. 2 (DAF 2), shown in Figure 1, thickens Waste Activated Sludge (WAS) prior to hauling off site to SOCWA. The WRP has two DAF Units and currently prioritizes DAF Unit No. 1 because DAF 2 has been out of service since May of 2022. Many of its components have aged beyond repair and required replacement to restore DAF 2 to its intended use. To bring DAF 2 back into service, staff performed interim repair work at the end of 2022. Remaining rehabilitation work includes replacing the recirculation pump and DAF mechanical components. District staff pre-purchased long lead items, prepared construction documents for installation of the pre-purchased equipment, and bid last month.



Figure 1 – Existing DAF Unit 2

BID EVALUATION

The District published the invitation to bid on PlanetBids on Monday, June 5th to a short list of four contractors. Three contractors attended the mandatory pre-bid meeting held on June 9th. Following the pre-bid meeting and a subsequent deadline for written questions, the District issued one addendum to the original bid documents. Staff opened two bids on Wednesday, July 12th, with the bid breakdown shown in Table 1 and Figure 2.

Table 1 – Bid Breakdown

Task No.	Description	Engineer's Estimate	SS Mechanical Construction Corp.	J.R. Filanc Construction Company, Inc.
1	Mobilization/Demobilization/Record Drawings	\$10,000	\$1,800	\$10,000
2	Recirculation Pump Installation	\$10,000	\$21,915	\$18,000
3	Backpressure Valve Assembly Installation	\$10,000	\$6,500	\$12,000
4	Skimming Mechanism w/ Hinged Skimmer Installation	\$10,000	\$7,500	\$16,000
Total Fee		\$40,000	\$37,715	\$56,000

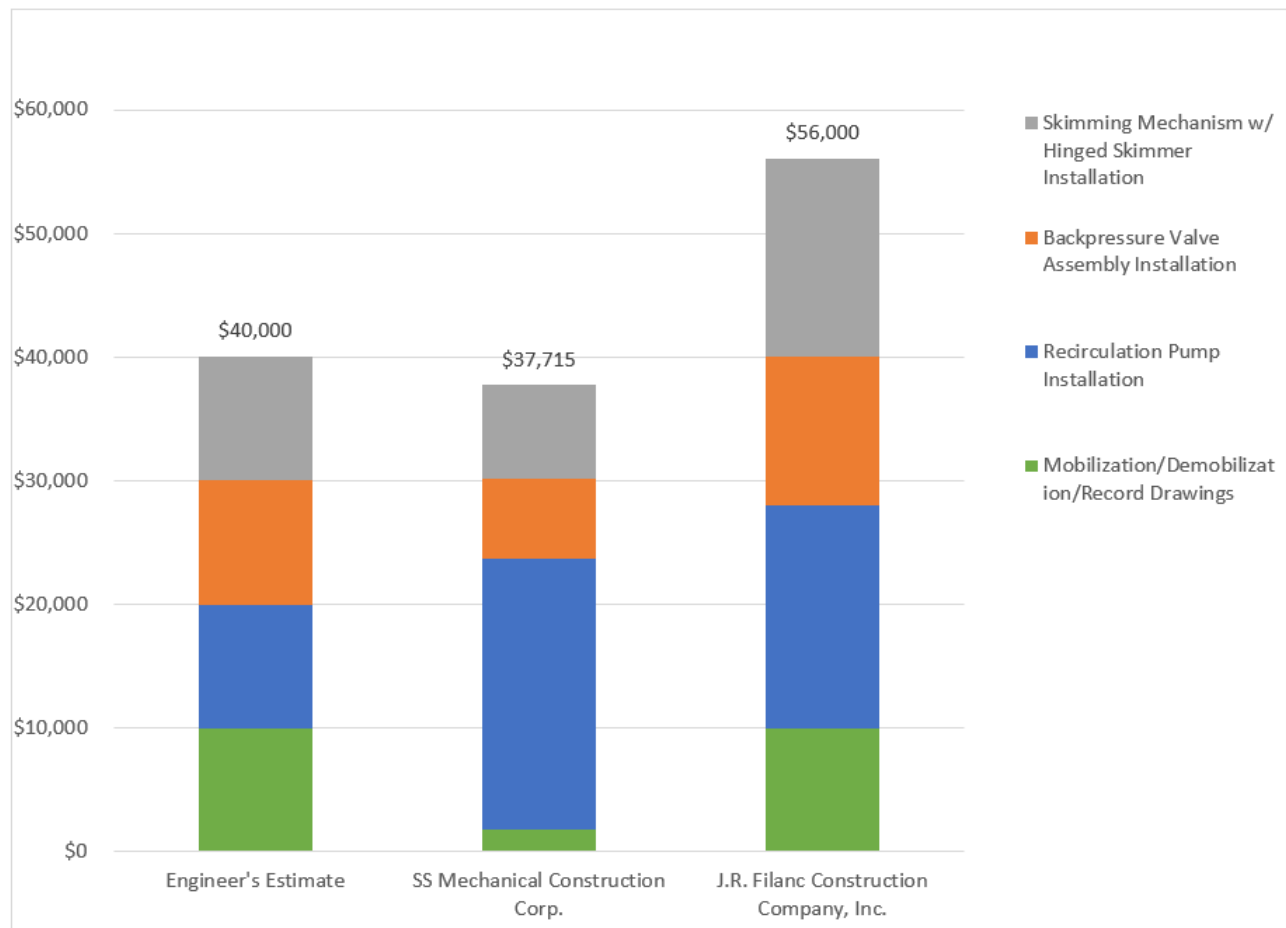


Figure 2 – DAF Unit No. 2 Rehabilitation Bid Summary

The spread between the low and high bids is approximately 48 percent. The apparent low bid was submitted by SS Mechanical Construction Corp. SS Mechanical has worked with the District in various successful projects for over 20 years and similarly with neighboring agencies.

BUDGET ANALYSIS

Table 2 summarizes total project costs. The total project costs including interim repairs, pre-purchased equipment, construction to install the pre-purchase equipment, and a 10% construction contingency are below the budgeted amount by approximately \$12,000. In an effort to maintain low costs, District staff developed the design in house and will perform the engineering services during construction, construction management, and inspection.

Table 2 – Total Project Cost Evaluation compared to Budget

Component	Cost
DAF 2 Interim Repair Costs	\$26,768.80
Pre-Purchase DAF Equipment Cost	\$100,871.88
Pre-Purchase Pump Cost	\$40,467.44
Installation Cost (current bid)	\$37,715.00
Contingency (10% of bid cost)	\$3,771.50
Total	\$209,594.62
Budget	\$221,640.68
Remaining Budget	\$12,046.06

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.

RECOMMENDATION

Recommended Action:

Staff recommends that the Board of Directors authorize the General Manager to issue a contract to SS Mechanical Construction Corp. in the amount of \$37,715.00 for the construction of the DAF Unit No. 2 Rehabilitation Project. Staff further recommends that the Board authorize the General Manager to fund the project costs from the District's Capital Reserves in accordance with the District's adopted Capital Reserve Policy.



STAFF REPORT

To: Board of Directors

Meeting Date: July 24, 2023

From: Hannah Ford, Engineering Manager

Subject: WRP Asset Management Plan

BACKGROUND/PURPOSE

As the District's infrastructure ages, the need for optimization and defensible replacement and rehabilitation planning grows. As directed by the District's Strategic Plan, the District is working to standardize, evolve, and enhance its asset management practices, particularly in the 10-year capital planning efforts, as part of a more formal Asset Management Program.

In September 2022, the Board approved award of a contract to Hazen and Sawyer (Hazen) to develop an Asset Management Plan (AMP) for the assets the Pump Station Department manages (i.e., pump stations, lift stations, reservoirs, and pressure reducing valves) as well as its associated electrical and instrumentation equipment. The purpose of this action item is to recommend award of the WRP AMP to Hazen, who will conduct a condition assessment, categorize risk, and develop dashboards that will ultimately influence capital budgeting for WRP assets using similar methods to those employed as part of the Pump Station AMP. Future phases of the ETWD Asset Management Program will address the remaining asset classes, as shown in Figure 1.

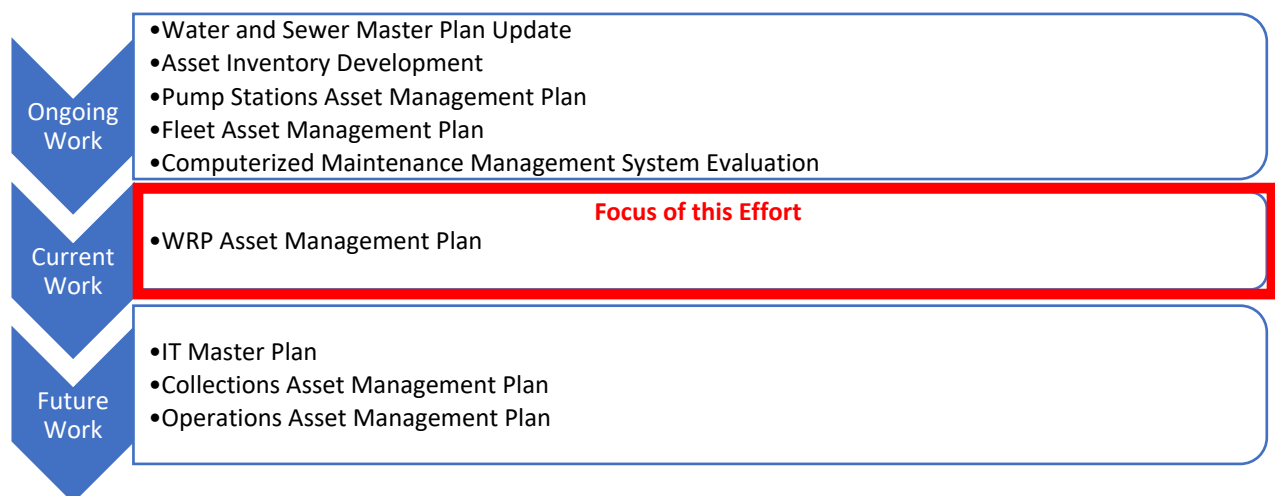


Figure 1 – Asset Management Program Work Flow

Figure 1 also illustrates the efforts the District initiated in preparation for the WRP AMP. These efforts include using an intern to develop a WRP asset inventory. Hazen also is working to evaluate the District's Computerized Maintenance Management System (CMMS), called Geoviewer, to develop solutions that would improve or replace the existing CMMS. The goal is to make information gathered through work order tracking more useful for continued asset condition scoring as part of the Asset Management Program.

PROPOSAL EVALUTION

District staff negotiated with Hazen to reduce costs and ultimately agreed upon \$113,140 for this effort. Table 1 summarizes costs by task. Attachment A includes the detailed scope of work.

Table 1- WRP Asset Management Plan Costs

Task Description	Cost
Project Management and Meetings	\$11,240
Data Request and Review	\$3,460
Risk Analysis	\$48,870
Remaining Useful Life and Replacement Costs	\$7,540
Prioritized CIP and Digital AMP	\$37,850
Asset Naming Convention SOP	\$4,180
Total	\$113,140

The Fiscal Year 2023-24 budget includes \$120,000 for asset management, so the proposed budget for the WRP AMP remains below budget.

RECOMMENDATION

Recommended Action:

Staff recommends that the Board of Directors authorize the General Manager to issue a contract to Hazen and Sawyer in the amount of \$113,140.00 for engineering services to develop the WRP Asset Management Plan. 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.



Board of Directors

Kay Havens
President

Jose F. Vergara
Vice President

Kathryn Freshley
Director

Mark L. Monin
Director

Mike Gaskins
Director

General Manager
Dennis P. Cafferty

El Toro Water District

"A District of Distinction"

Serving the Public – Respecting the Environment

Consulting Contract #120

Task Order # 3

Work Order 31-050

TASK ORDER NO. 3

WRP ASSET MANAGEMENT PLAN

This Task Order is issued by EL TORO WATER DISTRICT ("ETWD") and accepted by Hazen and Sawyer (hereinafter referred to as the "CONSULTANT") pursuant to the mutual promises, covenants and conditions contained in the Consulting Agreement between the above-named parties dated the _____ day of _____, 2023 in connection with the WRP Asset Management Plan. The terms and conditions of said Consulting Agreement are incorporated herein by reference.

1.0 BACKGROUND.

Formed in 1960, ETWD provides domestic water, recycled water and sanitary sewer collection, treatment and disposal services to a population of nearly 50,000 in a service area that includes portions of the Cities of Aliso Viejo, Lake Forest, Laguna Hills, Mission Viejo, and all of the City of Laguna Woods.

As ETWD's infrastructure ages, the need for optimization and defensible replacement and rehabilitation (R&R) planning grows. ETWD is working to standardize, evolve, and enhance its asset management practices, particularly in the 10-year capital planning efforts, as part of a more formal Asset Management Program. Building on the work of the Pump Station Asset Management Plan, this effort will focus on the assets at the Water Recycling Plant (WRP) including associated electrical and instrumentation equipment.

PURPOSE.

The purpose of this Task Order is to establish scope, time and payment provisions for Engineering Services relative to the WRP Asset Management Plan as detailed in the following Scope of Services.

3.0 SCOPE OF SERVICES.

All deliverables included as part of this project will be electronic. No hard copies are required.

Task 1 Project Management and Meetings

Task 1a Project Management

CONSULTANT shall communicate and coordinate as needed with ETWD staff to provide updates, follow up on action items, and manage the project on budget and on schedule. The CONSULTANT shall prepare and submit a concise monthly status report with the monthly invoice statement that includes the following:

- ETWD's standard form that includes a summary of expenditures by task showing total budget, billing to date, current billing, remaining amount.
- A summary of work progress/items complete for all work tasks;
- An estimate of actual percent complete based on progress compared to percent complete based on budget expended; and
- An updated progress schedule using a Gantt-type format.

The CONSULTANT's project manager shall verbally collaborate with ETWD's project manager weekly, at a minimum, to discuss work status.

Deliverables:

1. *Monthly status report*
2. *Monthly invoice*

Task 1b Meetings

CONSULTANT shall administer the following meetings at a minimum for this project:

- Project Kick-Off Meeting (in-person): The CONSULTANT shall arrange and conduct a project kick-off meeting at the start of the project. The purpose will be to introduce project participants, establish lines of communications, review the accepted scope of work and the project approach, and discuss WRP facilities and all other related information pertaining to ETWD's system.
- Weekly Progress Meetings (virtual): The CONSULTANT's project manager shall conduct weekly 30-minute coordination and consultation meetings with ETWD's project manager during the course of the project. Additional attendees will be requested as needed.

For all workshops and meetings, CONSULTANT shall prepare and submit a meeting agenda, presentations, and handouts to ETWD staff at least 48 hours in advance of the meeting and shall document and submit meeting minutes, decision log, and action items to ETWD staff within 72 hours of the meeting completion. At each meeting, CONSULTANT shall present and discuss an updated project schedule, project milestones, and planned activities. Objective-specific workshops are include within that specific task.

Deliverables:

1. *Meeting agenda*
2. *Meeting minutes and decision/action log*

Task 1c Quality Assurance and Quality Control (QA/QC)

CONSULTANT shall ensure that work is conducted in accordance with the established scope and performed by qualified individuals to perform that work. All deliverables to the District shall undergo an internal QA/QC process prior to submittal

Task 2 Data Request and Review

Task 2a Data Request and Review

CONSULTANT shall review the draft asset inventory provided by ETWD and develop recommendations for its finalization. ETWD staff will gather additional information required for the final asset inventory following CONSULTANT review and recommendation. CONSULTANT shall develop a data request, continue to maintain the SharePoint site so that ETWD staff can easily upload electronic documents for transmittal, and review requested data.

Task 2b Key Staff Engagement and Knowledge Transfer

CONSULTANT shall facilitate information-gathering conversations with WRP staff to support the transition of institutional knowledge. These conversations will be recorded and transcribed to provide accessibility through the digital AMP dashboard. Meetings will be conducted via the field condition assessment and virtual sessions via Teams so the conversations can be recorded, transcribed, and provided to the ETWD.

Deliverables:

- 1. Data request log (excel) inventorying all data received, reviewed, and application to project***
- 2. Recommendations to address data gaps in asset inventory***
- 3. Comprehensive database (excel) of all critical WRP assets with their available attributes***
- 4. Recorded Teams sessions***
- 5. Summarized written transcripts of interview sessions***

Task 3 Risk Analysis

CONSULTANT shall complete a risk analysis by rating each asset as a measure of criticality, or Consequence of Failure (CoF), and condition, or Likelihood of Failure (LoF). The risk score will combine LOF, COF, and redundancy. Scoring methodologies will be built on the methodologies adopted during the Pump Station AMP and updated as needed for specific needs of the WRP.

CONSULTANT shall plan and facilitate a workshop with WRP operations, maintenance, and engineering staff to review WRP assets and assign a threshold for critical assets that will be included in the risk analysis. At this workshop, CONSULTANT shall also present the draft COF and LOF methodology and solicit feedback. Updates to the methodology will be made, as appropriate, based on this feedback. While important to keep these methodologies consistent across ETWD, certain minor changes may be needed based on unique asset classes and types within each Department. CONSULTANT shall document the LOF and COF scoring methodology and incorporate into the digital AMP. This documentation will include condition assessment guidelines for staff to use on a recurring basis.

Task 3a Condition Assessment

CONSULTANT shall review ETWD's asset inventory, ETWD-provided photos, and conduct a pre-inspection consultation with ETWD to discuss critical assets and note problematic assets. Following this initial desktop and consultation effort, CONSULTANT shall conduct an initial scoring of assets then a three-day condition assessment by a CONSULTANT team of subject matter experts. The condition assessment process will include a team of three to four CONSULTANT staff on-site to assign LOF condition scores. LOF scores, photographs, and commentary will be collected using the Survey 123 mobile application and added to the Excel-based asset registry. Photos and commentary will typically be collected for critical assets with LOF score of 4 or 5. Links to photos will be included in the asset registry, including 360-degree photos.

Following completion of the condition assessment, CONSULTANT shall conduct a workshop to review key findings with ETWD staff.

Task 3b Consequence of Failure

CONSULTANT coordinate and consult with ETWD staff to develop adopt an approach and guideline to assign COF scoring to critical WRP assets. The process will build upon work completed during the Pump Stations AMP. The methodology will emphasize simplicity and the ability to adapt the methodology across all the District's asset classes. COF scores will be assigned at a process level and at the asset level. These two values will be combined to develop a COF score for each individual assets. Hazen will present the proposed COF scoring method to the District for feedback and update, as appropriate, based on that feedback.

Following completion of the COF scoring, CONSULTANT shall conduct a workshop to review key findings with ETWD staff.

Task 3c Risk Analysis

The risk analysis will combine the COF, LOF, and redundancy values to create an overall risk score on a 1 to 10 scale, following the approach adopted as part of the Pump Stations AMP. The risk assignments will be used to prioritize capital and operational improvements.

CONSULTANT shall conduct a workshop with ETWD staff to review risk analysis findings and solicit feedback.

Deliverables:

1. *LOF scoring methodology workshop, including handouts, agenda, and adopted methodology*
2. *Updated asset registry with initial and final LOF scores, photos, and commentary*
3. *COF scoring methodology workshop, including handouts, agenda, and adopted methodology*
4. *Updated asset registry with COF scores at the process and asset level*
5. *Risk scoring for all WRP assets (presented in workshop for ETWD feedback)*
6. *Updated asset registry with risk scoring*

Task 4 Remaining Useful Life and Replacement Costs

Task 4a Remaining Useful Life

Estimated useful life (EUL) will be assigned for all assets in the asset registry, applying approaches adopted during the Pump Stations AMP and industry best practice. Remaining useful life (RUL) will be calculated for all assets with known install dates by subtracting the asset's age from the EUL. For critical assets that were assessed during the condition assessment task, the RUL will be updated, as appropriate, based on that score. This process is performed by correlating a percent of useful life consumed directly to the asset's condition score.

Task 4b Replacement Costs

CONSULTANT shall provide replacement costs for all WRP assets in the asset inventory using the methodology developing during the Pump Station AMP and applying industry best practice. Raw estimated replacement costs will be based on asset class, type, and size and include only the cost of the asset. CONSULTANT shall consult with ETWD staff to determine what asset classes, types, and size warrant an adjusted replacement cost for replacements that would need to be contracted out.

Deliverables:

1. *Asset registry update for all WRP assets with EUL and RUL values with known install dates or that were assessed as part of the condition assessment*
2. *Updated asset registry with raw and adjusted replacement costs*

Task 5 Prioritized CIP and AMP TM

Develop a 10-year and 50-year prioritized CIP based on the outcome of the risk, useful life, and replacement costing analysis. CONSULTANT shall review the initial CIP plans with ETWD and incorporated directly into the data visualization dashboard developed during the Pump Station AMP work. Written sections will be incorporated into the dashboard, either as embedded text or referenced .pdf document.

CONSULTANT shall facilitate a workshop with key ETWD staff to review all the programs and projects before finalizing them in the AMP and digital CIP dashboard.

Deliverables:

1. *Updated data visualization dashboard with WRP assets, including following features:*
 - a. *COF, LOF, and Risk Scoring*
 - b. *Raw and adjusted replacement costs*
 - c. *10-year and 50-year CIP*
2. *Digital AMP with appropriate written narrative on process and methodology will be integrated into the data visualization dashboard*

Task 6 Asset Naming Convention Standard of Practice (SOP)

CONSULTANT shall coordinate with ETWD staff to develop understanding of current asset nomenclature (“tagging”) approach, with the goal of adopting a clear and consistent approach moving forward. Consistent and repeatable naming conventions provide continuity and clarity across all of ETWD’s Departments. This consistency supports reporting, cost roll-up, and work management practices. Once adopted, the methodology can be applied existing assets and new assets created as part of the CIP and operational replacements. The work will be conducted through initial consultation with the District PM and key O&M stakeholders. The proposed methodology will be brought to a larger stakeholder group in a workshop setting to solicit feedback. This feedback will be incorporated, as appropriate, into the adopted methodology.

Deliverables:

1. *Asset naming convention SOP*

4.0 TIME OF PERFORMANCE.

CONSULTANT shall commence work immediately following authorization to proceed. CONSULTANT has reviewed the project with ETWD and agrees that six months is a reasonable time frame within which to accomplish the work.

CONSULTANT and ETWD mutually agree that they will work toward meeting the schedule. Should the Scope of Work be changed and/or should problems arise during the course of the work effort that could affect the schedule, it is understood that both ETWD and CONSULTANT will develop a revised schedule, if required, to address scope changes or problems subject to the provisions of the Consulting Agreement.

This Task Order may be terminated by either party at any time upon thirty (30) days prior written notice to the other party. The date for termination of this Task Order shall be in accordance with, and shall not be sooner than, nor later than, the date for expiration or termination of the term of the Consulting Agreement.

5.0 PAYMENT.

The estimated hours and budget to provide the Scope of Services herein defined is presented in Table 1.

Table 1 – WRP Asset Management Plan Budget

Task	Description	Fee
1	Project Management and Meetings	\$11,240
2	Data Request and Review	\$3,460
3	Risk Analysis	\$48,870
4	RUL and Replacement Costs	\$7,540
5	Prioritized CIP and Digital AMP	\$37,850
6	Asset Naming Convention SOP	\$4,180
Total		\$113,140

A budget estimate of ONE HUNDRED THIRTEEN THOUSAND ONE HUNDRED FORTY DOLLARS (\$113,140.00) is hereby established for CONSULTANT's services unless amended by scope of services or schedule changes agreed to in writing by both ETWD and CONSULTANT. In no event shall the payment for services under this Task Order, as billed pursuant to CONSULTANT's Fee Schedule indicated in Table 2, exceed the amount of \$113,140.00.

Table 2 – CONSULTANT Fee Schedule

Name	Role	Billing Rate (FY23 \$)
Cindy Miller	Director	330
Steve Simon	PM	290
Sean Pour	AM SME	290
Soroush Zamanian	Digital Solution Lead	185
Masoumeh Khalkhali	Data Analyst	165
Charlie Leder	CA Lead	280
Alec Hansen	Engineering support	140
Steve Conner	Civil/Mech assessment	320
Jack Yao	Electrical lead	320
Alan Mlakar	Electrical engineer	280
Joel Berger	Structural engineer	135
Jared Eichmiller	CMMS/GIS Analyst	140
Chris Portner	Cost Estimating	290
Ryan Nagel	QA/QC	330

6.0 PROJECT TEAM.

CONSULTANT Team was indicated in Table 2. Key members of the CONSULTANT Team include:

- Steve Simon – Project Manager
- Sean Pour – Asset Management SME

If any of these individuals becomes unavailable to act in these capacities, CONSULTANT may designate other individuals who shall be the replacement upon the written approval of ETWD. In the event that these designated individuals are no longer capable of performing the services required, as determined in ETWD's discretion, and/or ETWD does not approve of the individual designated by CONSULTANT to replace the then designated Project Manager, ETWD may, in its discretion, terminate this Agreement.

El Toro Water District

WRP Asset Management Plan
Task Order No. 3

EFFECTIVE DATE.

This Task Order No. 3 is effective as of the _____ day of _____, 2023.

IN WITNESS WHEREOF, duly authorized representatives of ETWD and CONSULTANT have executed this Task Order No. 3, evidencing its issuance by ETWD and acceptance by CONSULTANT.

EL TORO WATER DISTRICT

HAZEN AND SAWYER

By _____

DENNIS P. CAFFERTY
General Manager

By _____

CINDY MILLER
Vice President

By _____

KEVIN ALEXANDER
Vice President



STAFF REPORT

To: Board of Directors

Meeting Date: July 24, 2023

From: Hannah Ford, Engineering Manager

Subject: Tertiary Optimization Study Tracer Test

BACKGROUND/PURPOSE

Last year, the District initiated a Tertiary Optimization Study (Study) with Trussell Technologies, Inc. (Trussell Tech) to reduce costs and improve operability of the Tertiary Treatment Plant (TTP) by implementing an alternative disinfection process. The District evaluated alternatives with Trussell Tech and ultimately decided to move forward with implementing a low CT (residual chlorine concentration x T_{10} contact time) approach to reduce chlorine consumption and decouple the Recycled Water Storage Tank (RWST) from the Chlorine Contact Tank (CCT), freeing up volume otherwise required for contact time. T_{10} is the time it takes for 10% of a chemical to pass through the system. Figure 1 shows a process flow diagram of the selected alternative with modifications indicated in blue.

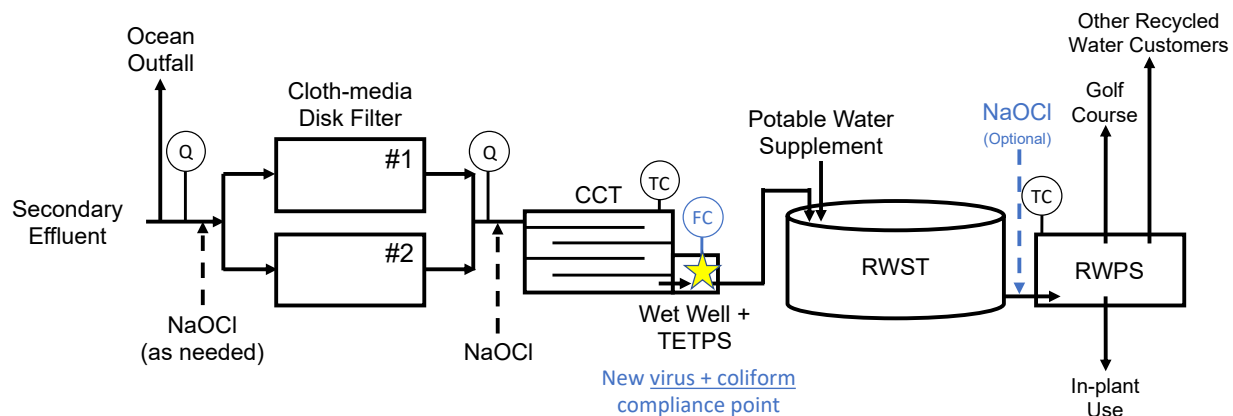


Figure 1 - Low CT free chlorination virus and coliform compliance at Tertiary Effluent Transfer Pump Station. Modifications shown in blue.

Trussell Tech prepared and submitted a technical memorandum (TM) to the Division of Drinking Water (DDW) seeking approval for 5-log virus inactivation via low CT free chlorination. In the submission to DDW, the District used an assumed baffling factor T_{10} (BF T_{10}) of 0.45 based on DDW's compiled database of tracer studies with a conservative reduction factor to account for site specific differences because the BF T_{10} of 0.57 determined in the 2014 tracer study did not separately identify BF T_{10} for the CCT and

RWST. However, DDW requested that the District perform a new tracer study to demonstrate T_{10} of the flow through the CCT and verify the BF T_{10} of the CCT alone. The purpose of this action item is to amend the District's contract with Trussell Tech to prepare and execute a DDW-approved tracer study protocol.

PROPOSAL EVALUTION

District staff negotiated with Trussell Tech to reduce costs and ultimately agreed upon \$48,565 for Trussell Tech to execute the tracer study. Table 1 summarizes anticipated total project costs. Attachment A includes the detailed proposal. Following DDW acceptance of the tracer study and corresponding low CT approach, the District would need to install new free chlorine analyzers and another sodium hypochlorite metering pump for the optional post-RWST chlorine boost.

Table 1- Tertiary Optimization Total Project Costs

Task Description	Cost
Alternatives Evaluation	\$31,816
Regulatory Support	\$26,940
Tracer Study	\$48,565
Engineering	\$13,920
Construction Cost	\$106,720
Total	\$227,961

Implementing a low CT free chlorination approach would save on chlorine costs if the optional chlorine boost at the end of the RWST doses less than 5 mg/L; the savings range up to \$32,858 per year. Payback for the total project costs could be realized within seven years if the optional chlorine boost following the RWST remains low. Potential future increases in sodium hypochlorite costs may expedite project payback. In addition, the minimum level in the RWST could be lowered from 8-ft to 4-ft, which gains over 338,000 gallons of additional storage in the RWST. The increased available storage will help mitigate the need for supplementary potable water in the recycled water system. For these benefits, District staff recommend moving forward with the project.

RECOMMENDATION

Recommended Action:

Staff recommends that the Board of Directors authorize the General Manager to issue a contract to Trussell Technologies, Inc. in the amount of \$48,565.00 for the preparation and execution of a tracer study for the Tertiary Disinfection Optimization Study. 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.



SCOPE OF WORK

ETWD Chlorine Contact Tank (CCT) Tracer Study

The El Toro Water District (ETWD) is exploring the opportunity to optimize treatment performance at its Water Recycling Plant (WRP) by implementing an alternative disinfection process as permitted by California Code of Regulations (CCR) §60301.230(a) (2). Trussell Technologies, Inc. (Trussell Tech) helped ETWD prepare and submit a technical memorandum (TM) to the Division of Drinking Water (DDW) seeking approval for 5-logs of virus inactivation via low-CT free chlorination. In their review comments, DDW requested that ETWD perform a new tracer study to demonstrate T_{10} of the flow through the CCT and verify the T_{10} baffling factor of the CCT alone.

Trussell Tech will work with ETWD to prepare and execute a DDW-approved tracer study protocol. Following completion of the tracer study, Trussell Tech will prepare a report documenting the tracer test procedure and results for DDW's review and approval. The scope of this work includes the tasks described below.

Task 1 – Project Management

This task encompasses general project management tasks including schedule and budget tracking as well as general communications with ETWD.

Task 2 – Tracer Study

This task includes preparation of a tracer study protocol to identify the T_{10} contact time of the CCT at ETWD's WRP, pursuant to the California Title 22 Water Recycling Criteria. Trussell will participate in a site visit to the WRP to meet with operations and engineering staff and discuss preferred tracer study methods, logistics for the study, and the responsibilities of plant staff during the tracer study execution (e.g., plant operations, flow rates, and data collection). A draft protocol will be prepared and provided to ETWD for review and comment. Trussell Tech will incorporate ETWD staff comments for submission to DDW and will participate in a virtual meeting with DDW and ETWD to discuss the tracer study protocol. Trussell Tech will incorporate comments received by DDW and prepare a final protocol for DDW approval.

Trussell Tech will then execute the tracer study as detailed in the DDW-approved protocol. Testing will take place at a total of three flow rates in order to derive a relationship between flow and T_{10} , from which an appropriate baffling factor can be interpolated. Upon completion of the study, the tracer results will be analyzed to (1) determine the T_{10} contact time from each test, (2) determine mass of tracer recovered, and (3) detail the observed hydraulic residence time and hydraulic efficiency of the CCT. Trussell Tech will prepare a draft report summarizing the results and submit the report to ETWD for review and comment. Trussell Tech will incorporate ETWD's comments into a final report for submission to DDW. Any comments from DDW will be incorporated in subsequent revisions, as necessary.



Assumptions:

- One (1) site visit to the WRP
- One (1) virtual meeting with DDW and ETWD staff to facilitate DDW review of tracer study protocol
- Tracer tests conducted at a total of three (3) flow rates

Deliverables:

- Draft and Final Tracer Study Protocol
- Draft and Final Tracer Study Report

**PROPOSED SCHEDULE**

The proposed work can be completed within 9 months from notice to proceed (NTP). The schedule is based on the assumption that DDW will complete their review and provide approval of the tracer study protocol and final report in 2 months or less.

The proposed project schedule with key milestones is presented in the following table:

Task No.	Scope	Schedule (Month from NTP)								
		1	2	3	4	5	6	7	8	9
1	Project Management									
1.1	General Project Management (Invoicing, Time Keeping, Communications)									
2	Tracer Study									
2.1	Site Visit and Coordination for Tracer Study									
2.2	Tracer Study Protocol Development and Approval (1 call with ETWD & DDW)		○			○				
2.3	Tracer Study Execution (3 flows)									
2.4	Tracer Study Report Submission and Approval						○			○

○ Indicates Deliverable Submitted

Task is in progress

Assumed period for DDW review and comment

PROPOSED FEE

The consultant fee for the proposed scope of work described above is \$48,565. A breakdown of this fee is presented in the following table:

Task No.		Trussell Technologies					ODC's	Total
	Staff Classification	Principal II	Sup Eng III	Eng II	Assoc Eng II	Cost		
	Hourly Billing Rate	\$300	\$270	\$185	\$160			
1	Project Management	4	0	8	0	\$ 2,680	\$ -	\$ 2,680
1.1	General Project Management (Invoicing, Time Keeping, Communications)	4		8		\$ 2,680		\$ 2,680
2	Tracer Study	15	23	79	118	\$ 44,205	\$ 1,600	\$ 45,885
2.1	Site Visit and Coordination for Tracer Study	5		5		\$ 2,425	\$ 200	\$ 2,635
2.2	Tracer Study Protocol Development and Approval (1 call with ETWD & DDW)	5	10	16	38	\$ 13,240		\$ 13,240
2.3	Tracer Study Execution (3 flows)		3	40	40	\$ 14,610	\$ 1,400	\$ 16,080
2.4	Tracer Study Report Submission and Approval	5	10	18	40	\$ 13,930		\$ 13,930
TOTAL		19	23	87	236	\$ 46,885	\$ 1,600	\$ 48,565

Principal II Principal Engineer II
Sup Eng III Supervising Engineer III
Eng II Engineer II
Assoc Eng II Associate Engineer II

*Cost includes a 5% markup on ODC's



STAFF REPORT

To: Board of Directors

Meeting Date: July 24, 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

R-6 Reservoir cover installation continued with plans to complete all panel deployment this month. Figure 1 shows the area where the last six cover panels will be installed over the vaults. Figure 2 shows field welding and cover panel deployment on the South end of the reservoir. District staff also had the opportunity to visit the site and learn about the Project during three site visits this month (Figures 3 and 4).



Figure 1 – Remaining Cover Panels



Figure 2 – Cover Panel Deployment



Figure 3 – ETWD Staff Site Visit



Figure 4 – ETWD Staff Site Visit

After issuing the initial purchase order in February 2022, District staff have worked closely with Mueller to resolve supply chain issues and receive a firm ship date for the delayed control panels and cords for the valve open/close switches. District staff have finalized the disinfection and startup plan to expedite fill and allow for adequate water quality testing in advance of the September 29, 2023 Allen-McColloch Pipeline shutdown. Due to the need to fill the reservoir quickly, District staff are working with MWDOC and MWD to waive the capacity reservation charge. The District anticipates reservoir fill to begin by the end of August 2023 and last until the end of September 2023 (i.e., approximately one month in duration).

LaBelle Marvin collected six geotechnical borings and developed an alternatives analysis report that identified potential solutions for perimeter road repair. District staff evaluated the potential solutions and ultimately recommends moving forward with installing 4-inches of asphalt over 8-inches of aggregate base, which will cost approximately \$1,294,500 for design and construction. District staff evaluated lower cost alternatives that leveraged aggregate base (i.e., gravel) instead of asphalt. While the lowest cost of these alternatives is approximately half that of the proposed alternative, gravel-based solutions offer the following challenges:

- Lack of compliance with the CA-NV AWWA Floating Cover Guidelines to provide a paved (concrete or asphalt) perimeter road, completely surrounding the reservoir;
- Increased level of impermeable surface on site, which re-opens permitting requirements for site stormwater control;
- Concern altering permeable surface near dam face and need for additional coordination with Division of Safety of Dams (DSOD);
- Need to adjust all storm drain inlets to lower elevation;
- Need to determine how to protect or adjust monitoring wells to prevent further damage; and
- Concern over gravel travelling onto cover, causing rips or degrading water quality.

Therefore, District staff recommends a paved solution that would overcome the aforementioned challenges and best maintain the reservoir's water quality. Staff have discussed the alternatives with MNWD and SMWD and received concurrence on the recommended approach. Next, District staff plan to award LaBelle Marvin a design contract for \$3,500 to develop bid documents for potential award of the perimeter road construction contract in September 2023.

Table 1 summarizes the total budget, timeframe, and percent complete for the current construction contract with Layfield. Because invoiced to date reflects work through the end of June 2023, budget expenditure remains slightly less than schedule completion.

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

Construction Contract	Total	Earned to Date	Percent Complete
Budget	\$23,154,428 ¹	\$17,651,733	76%
Schedule	August 18, 2022 – September 30, 2023		83%

¹Includes deductive Change Order No. 1 of \$48,872.24. Excludes optional bid items related to asphalt paving replacement.

II. Mathis Lift Station Inlet Repair

The design consultant, Dudek, prepared the 60% design. District staff reviewed the 60% design, provided comments, and facilitated parallel reviews from the City of Laguna Hills and Orange County Public Works. The current design includes constructing a manhole in the lift station, North of the wet well, and a second manhole, located in the sidewalk, in front of the lift station as shown in Figure 5.

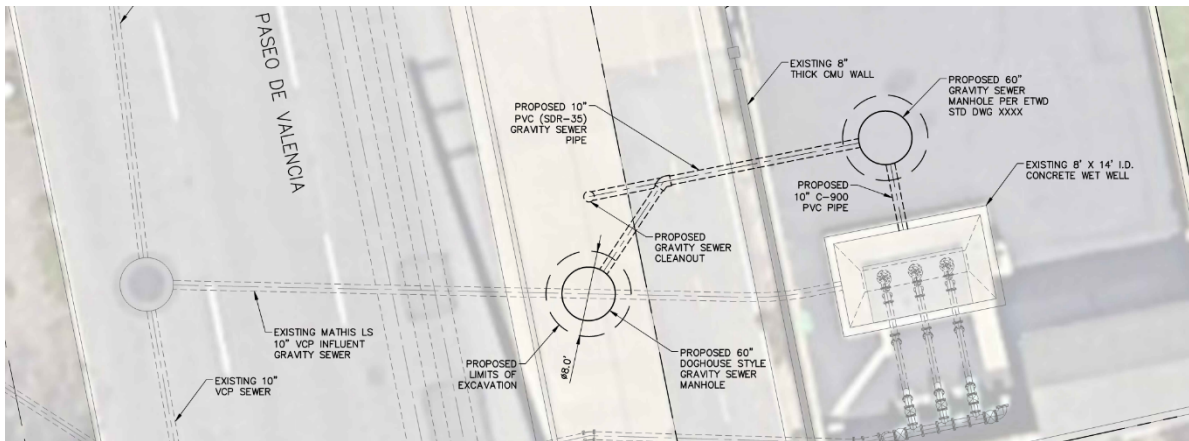


Figure 5 – Proposed Modifications to the Mathis Lift Station

Dudek is currently preparing the 100% design submittal package for District review prior to final design. The current schedule will complete final design by early August for bidding and potential award at the September Board meeting. In the meantime, District Operations staff continue to monitor the Lift Station and its influent blockage to mitigate elevated concern.

III. Aliso Creek Lift Station Improvements Project

The Aliso Creek Lift Station (ACLS) is one of the oldest lift stations the District operates. It collects sewage from portions of Laguna Hills, Laguna Woods, and Lake Forest including that from 4920 Lift Station and Mathis Lift Station. ACLS pumps sewage through Laguna Woods Village to the WRP. District Operations staff have several challenges maintaining the Aliso Creek Lift Station including lack of adequate vector truck access to clean the wet well and continued degraded efficiency despite yearly pump impeller and volute replacements.

Sewer modeling efforts as part of the Master Plan project indicate that the ACLS lift station needs a firm rated capacity of 4,000 gpm. District Operations staff performed pump tests and determined that the ACLS is underperforming relative to the firm rated capacity. Pump 1 is performing to approximately 80% of its rated capacity while Pump 2 is performing at approximately 50% of its rated capacity, equating to approximately 3,100 gpm. In addition, the Village at Laguna Hills development expects to produce approximately 200 gpm of flow that will route to ACLS and require pumping to the WRP.

In order to resolve the maintenance and performance issues at ACLS, District staff issued a Request for Proposals (RFP) to seven engineering firms for an alternatives analysis. The objective of the RFP is to determine the most cost-effective approach to achieving the required capacity at ACLS while also improving operations and maintenance, maintaining service, and protecting neighboring environmentally sensitive areas. Staff held a pre-proposal meeting in mid-July and expects to recommend award at the September Board meeting.

IV. System-Wide Arc Flash and Coordination Study

District staff issued a RFP for consultants to provide engineering services in order to:

- Confirm that each of the District's facilities complies with the National Electric Code (NEC), National Fire Protection Association (NFPA) 70E, and Occupational Safety and Health Administration (OSHA) requirements;
- Make recommendations to bring each facility into compliance if not;
- Provide budgetary cost estimates for implementing recommendations;
- Implement all recommendations related to electrical protective device settings and arc flash labels; and
- Provide staff with training.

Five consultants attended the preproposal meeting. Proposals are due for potential award in August.

V. Grit Chamber Rehabilitation Project

Carollo Engineers, Inc. (Carollo) conducted a design development workshop with District staff last month and plans to submit the draft design submittal by the end of July 2023. District staff will review the draft design submittal with Carollo and the contractor, SS Mechanical, prior to its finalization and issuance to SS Mechanical for pricing and potential change order award in October 2023. Because the Variable Frequency Drive (VFD) for the grit blower has a six-month lead time, District staff propose pre-purchasing the equipment in advance of change order award to accelerate schedule. Staff anticipates recommending approval at the August Engineering Committee Meeting.

VI. 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. District staff are discussing results of that survey and determining next steps on how to best restore the impressed current cathodic protection system.

VII. New Warehouse

District staff and the Engineer, Richard Brady and Associates (Brady), are working with the contractor Dumarc Corporation (Dumarc) on the submittal phase of the project. A preconstruction meeting was held in late June. Dumarc is scheduled to mobilize construction crews starting the week of September 5th, after the Labor Day holiday.

VIII. Effluent Transmission Main (ETM) Backflow Prevention Project

District staff are working with the contractor, Don Peterson Contracting (DPC), to finalize the submittal phase and prepare for the upcoming construction activities. Currently DPC is scheduled to mobilize in late July and take delivery of the piping. The critical shutdown is scheduled for early August.

The District has received all pre-purchased components (Surgebuster check valve and butterfly valves). Staff also maintains communication with IRWD Operations to verify they

can still accommodate a 3-day shutdown of the ETM in early August 2023. Additional coordination will take place with SOCWA for upcoming outages of the Aliso Creek Ocean Outfall. Table 2 summarizes the total budget, timeframe, and percent complete for this project.

Table 2 –ETM Backflow Prevention Project Schedule and Budget Status

Construction Contract	Total	Earned to Date	Percent Complete
Budget	\$208,920	\$31,223	15%
Schedule	April 24, 2023 – August 1, 2023		92%

IX. Effluent Pump Station Rehabilitation Project

The contractor, Filanc, is still demobilized from the site and plans to return prior to the pump installation. In early July, the pumps were delivered to the WRP. However, because the EPS construction schedule encroaches into the critical shutdown window of the ETM Backflow Prevention Project, the District has elected to delay the EPS Pump Station Rehabilitation Project until after the ETM is complete.

X. Water and Sewer Master Plan Update

Carollo incorporated the District’s comments on the draft Master Plan, and District staff are meeting with Carollo this month to finalize the report. An outstanding item is the testing required to confirm distribution system chlorine decay; however, due to lab staff constraints, District staff plans to conduct this work on a parallel path in order to wrap up the report by the third quarter of 2023.

XI. 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 October 2023.

XII. 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. Next, 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 November 2023.

XIII. Energy Efficiency Analysis

District staff continues to work on developing the recommended energy efficiency projects for the WRP and pump stations. Table 4 summarizes the projects staff are developing. SoCalREN has not yet been able to obtain any rebates for the projects proposed to date, so District staff are working to move the projects forward despite the lack of credits in order to realize energy savings as soon as possible. In parallel, District staff continue to work with SoCalREN on the WAC Rehabilitation and Grit Blower Optimization projects, which may result in SCE rebates.

Table 4 – Energy Efficiency Progress Summary

Facility	Recommended Project	Projected Savings (kWh/yr)	Budgetary Cost	Projected Payback (years) ⁽¹⁾	Status
WRP					
ABAC based Aeration Control	Introduce ammonia-based aeration control (ABAC) in aeration basins.	334,000	\$84,000	1.7	Although no rebate from SCE is possible, the District will install for energy savings.
WAC Rehabilitation	Eliminate waste activated clarifier (WAC) sludge blower. Replace with polymer addition.	147,000	\$112,000	4.9	Will remove WAC blower as part of Secondary Clarifier No. 1 Rehabilitation Project. Working with SoCalREN to obtain rebate.
Odor Control System Optimization	Install H ₂ S analyzers for trimming and VFDs on blowers.	29,000	\$31,000	5.0	Will evaluate as part of the WRP asset management work.
Aerated Grit Chamber Optimization	Optimize blower for aerated grit chamber.	54,000	\$65,000	5.6	In progress as part of Grit Chamber rehabilitation. Working with SoCalREN to obtain rebate.
RAS Pump Optimization	Flow pace and trim based on sludge blanket monitoring.	113,000	\$156,000	6.4	Will evaluate as part of the WRP asset management work.
Aeration Distribution Optimization	Automate valves on droplegs to zones of aeration basins.	94,000	\$254,000	12.5	
Large Bubble Mixing in Equalization Basin	Replace mixing pumps with large bubble diffusers.	235,000	\$880,000	17.3	
Water Pump Stations					
P-1	Rehabilitate due to degraded efficiency.	98,000	\$107,000	6.4	Included in FY 24/25 CIP budget.
P-4 – Pumps 2 and 3	Following recent testing, rehabilitate due to degraded efficiency.	62,299	\$40,092	4.3	Included in FY 22/23 CIP budget. No rebate possible due to pump type.
Spartan	Rehabilitate due to degraded efficiency.	59,164	\$28,996	3.5	Included in FY 22/23 CIP budget. Determining rebate prior to purchase.
Sewer Lift Stations					
Aliso Creek	Needs repair to improve both efficiency and operability.	107,255	\$72,215	3.9	District staff are pursuing a project to resolve issues within the lift station.

⁽¹⁾Does not include potential rebate from SCE.

**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
<i>2023/24 Capital Projects</i>															
	P-3 Pump Station Rehabilitation							RFP	A	E	E	E	E	\$200,000	
	Moulton/EI 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	
	Secondary Clarifier and WAC Rehabilitation					RFP	A	E	E	E	E	E	E	\$649,000	
	Grit Chamber Rehabilitation	E	A	E	A	C	C	C	C	C	C	C	C	\$861,861	\$479,878
	Coarse Screen Rehabilitation			RFP	A	E	E	E	E	E	E	B	A	\$2,277,000	
	DAF Unit No. 2 Rehabilitation Project	A	C	C	C	C								\$221,641	\$168,108
	Aliso Creek Pump Station Rehabilitation Project	RFP	RFP	A	E	E	E	E	E	RFP	A	E	E	\$826,000	
	Asset Management	A	E	E	E	E	E	E						\$120,000	
	System-Wide Arc Flash and Coordination Study	RFP	A	E	E	E	E	E						\$180,000	
<i>2023/24 Capital Equipment</i>															
	R-6 Security Cameras and Fence Alarm Replacement	A	C	C										\$84,000	
	Freeway Electrical Equipment Replacement		A											\$110,000	
	Core Switch Replacement			A	C	C								\$63,000	
<i>Revenue Bond Projects</i>															
	R-6 Reservoir Floating Cover	C	C	A	C									\$12,442,344	\$11,347,202
	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	
<i>Previous Fiscal Year Carryover</i>															
	P-4 Pump Replacement	ET	A				R	C						\$59,000	
	ETM Backflow Prevention Project	C	C											-	\$304,463
	Tertiary Disinfection Optimization Project	A	E	E	E	P	E	E	E	B	A	C	C	-	
	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	A	C	C	C							-	
	Caltrans I-5 Widening Utility Relocations		C	C										\$0	\$627,365
Total														\$25,633,267	\$17,472,549

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

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

June 19, 2023

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

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

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

Also participating were DENNIS P. CAFFERTY, General Manager, HANNAH FORD, Engineering Manager, GILBERT J. GRANITO, General Counsel, VISHAV SHARMA, CFO, CAROL MOORE, Laguna Woods Council member (zoom), POLLY WELSCH, Recording Secretary, JOONE LOPEZ, MNWD, BILL MOOREHEAD, MNWD, DUANE CAVE, MNWD, MATT COLLINGS, MNWD, ROD WOODS, MNWD, and DAN FERONS, SMWD.

Determination of a Quorum

Roll Call:

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

All five Board members are present for the meeting, therefore a quorum was determined.

Oral Communications/Public Comments

There were no comments.

Items Received Too Late to be Agendized

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

MNWD Presentation Regarding the Operation of the Regional Treatment Plant

Representatives from MNWD presented their proposal to Operate the Regional Treatment Plant as well as an update on the MNWD OASIS Project.

At approximately 8:50 a.m. Ms. Lopez, Mr. Ferons, Mr. Collings, Mr. Cave, Mr. Moorhead, and Mr. Woods left the meeting.

Finance & Insurance Committee Meeting

At approximately 8:50 a.m. Director Gaskins called the Finance & 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
Vice President Vergara	aye
President Havens	aye

Financial Information Items

Update on the Implementation of the Springbrook Software System

Mr. Sharma stated that the General Ledger, Accounting System, and Payroll are working, and the next step is the Billing System module implementation. He further stated that the District staff had a Zoom meeting on June 9th with the Springbrook staff

and setup the week of August 28th to restart the Billing system conversion process. The implementation process will take between three and five months to fully test and implement the Billing Module.

Financial Action Items

Financial Package - Authorization to Approve Bills for Consideration Dated June 19, 2023 and Receive and File Financial Statements as of May 31, 2023

Director Gaskins asked for a Motion.

Motion: Director Monin made a Motion, seconded by Vice President Vergara to approve, ratify, and confirm payment of the bills set forth in the schedule of bills for consideration dated June 19, 2023, and receive and file the financial statements for the period ending May 31, 2023.

Roll Call Vote:

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

Comments Regarding Non-Agenda FIC Items

Mr. Cafferty provided a quick update on the budget process. He further stated that the Prop 218 Notices were mailed out and a small number of protest emails have been received.

Close Finance and Insurance Committee Meeting

There being no further business the Finance Committee meeting was closed at approximately 9:10 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

RESOLUTION NO. 23-7-1

**RESOLUTION OF THE BOARD OF DIRECTORS OF THE
EL TORO WATER DISTRICT MODIFYING THE
AUTHORIZED SIGNATORIES ON THE
LOCAL AGENCY INVESTMENT FUND (LAIF) ACCOUNT
(ACCOUNT NO. 90-30-001)**

WHEREAS, the Board of Directors of the El Toro Water District deems it to be in the best interest of the District to modify change the authorized signatories on the Local Agency Investment Fund Account (Account No. 90-30-001).

NOW, THEREFORE BE IT RESOLVED, that the Board of Directors of the El Toro Water District hereby consents to, adopts and incorporates by reference the authorized signatories, which is attached hereto marked Exhibit "A" and made a part of this Resolution.

ADOPTED, SIGNED AND APPROVED, this 24th day of July 2023.

Kay Havens, President
of the El Toro Water District and
of the Board of Directors thereof

ATTEST:

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

EL TORO WATER DISTRICT
AUTHORIZED SIGNATORIES

Dennis P. Cafferty
General Manager

Vishav R. Sharma
CFO

EL TORO WATER DISTRICT INSURANCE UPDATE

July 2023

Liability Program

There is nothing new to report this quarter.

Property Insurance

There is nothing new to report this quarter.

Excess Public Employee Fidelity Program

There is nothing new to report this quarter.

Underground Storage Tank Pollution Liability

There is nothing new to report this quarter.

Dam Failure Liability

There is nothing new to report this quarter.

Fiduciary Liability Policy

There is nothing new to report this quarter.

Liability & Property Claims

There is nothing new to report this quarter.

Workers' Compensation Policy

The Workers' Compensation Policy renewed on July 1, 2022, and runs through June 30, 2023.

Workers' Compensation Claims

There was one workers' compensation claim this quarter with restricted duties. There was no loss time.

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 fourth quarter is \$1469.96.

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 fourth 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 fourth quarter is \$80.24.

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 2/3 of an employee's weekly or monthly salary if the claim is approved.

Average cost per month per employee for the fourth quarter is \$60.57.

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 fourth quarter is \$10.46.

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 fourth quarter is \$56.97.

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 fourth quarter is \$1.70.

An insurance report of Budget vs. Actual Costs for the fiscal year 2022/2023 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 - Q4 2022/2023
7/1/2023**

	Annual Budget	Actual Paid to Date	Budet Remaining	
Insurance Coverage				
Liability	\$182,000	\$179,027	\$2,973	
Property	\$107,000	\$102,570	\$4,430	
Fiduciary Liability	\$15,000	\$11,645	\$3,355	
Cyber Liability	\$13,000	\$8,944	\$4,056	
Dam Insurance (includes Excess)	\$50,000	\$46,360	\$3,640	
Less: SMWD - 50% R-6 Cost Share	(\$25,000)	(\$23,180)	(\$1,820)	
MNWD - 5% R-6 Cost Share	(\$2,500)	(\$2,318)	(\$182)	
Underground Storage Tank	\$2,000	\$1,788	\$212	
Excess Crime	\$2,500	\$2,200	\$300	
Total Insurance	\$344,000	\$327,036	\$16,965	
Benefits - Directors				
	Annual Budget	Q4 Budget	Accumulative Q4 Actual	Budget Remaining
Long Term Care	\$3,000	\$3,000	\$2,867	\$133
Medical Employer Paid	\$19,181	\$19,181	\$19,994	(\$813)
Health Savings Account	\$3,000	\$3,000	\$3,000	\$0
Dental	\$2,401	\$2,401	\$2,401	\$0
Vision	\$1,033	\$1,033	\$1,033	\$0
Life	\$134	\$134	\$124	\$10
Total Benefits Directors	\$28,749	\$28,749	\$29,419	(\$670)
Retiree Benefits				
Medical Employer Paid	\$302,967	\$302,967	\$261,155	\$41,812
Total retiree benefits	\$302,967	\$302,967	\$261,155	\$41,812
Employee Benefits				
Emp.Assistance Program	\$1,230	\$1,230	\$1,236	(\$6)
Medical Employer Paid	\$1,131,500	\$1,131,500	\$1,036,161	\$95,339
Health Savings Account	\$5,600	\$5,600	\$2,600	\$3,000
Life/AD&D	\$36,600	\$36,600	\$37,327	(\$727)
Dental	\$61,000	\$61,000	\$56,649	\$4,351
Vision	\$13,300	\$13,300	\$12,236	\$1,064
LTD/STD	\$39,800	\$39,800	\$44,996	(\$5,196)
LTC Employer Paid	\$11,600	\$11,600	\$2,590	\$9,010
Workers comp.	\$128,900	\$128,900	\$151,435	(\$22,535)
Total Employee Benefits	\$1,429,530	\$1,429,530	\$1,345,231	\$84,299

SUMMARY OF COVERAGE

Page 5

Type of Coverage	<u>GENERAL LIABILITY</u>	Coverage Term: 10/22-23
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: 10/22-23
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: 10/21-22
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: 7/22 - 23
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 - \$102,570
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: 7/22 - 23
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 - \$2,200
Coverage Limits	Insurance Carrier	Policy Number
	Pooled Self-insured	MOLC - 100110
Type of Coverage	<u>UNDERGROUND STORAGE TANK POLLUTION LIABILITY</u>	Coverage Term: 7/22 - 07/23
Coverage Includes	1. Claims-Made 2. Environmental Incident	Premium - \$3,355
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 Rossmoor Dam	\$5,000,000.00	
Coverage Limits	Insurance Carrier	Policy Number
		MOLC - 100110
Type of Coverage	<u>FIDUCIARY LIABILITY</u>	Coverage Term: 9/22-23
Coverage Includes	1. Executive Protection Policy	Premium - \$11,645
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: 7/22-23
First Year		Premium - \$8,944

Type of Coverage	<u>WORKERS' COMPENSATION</u>	Coverage Term: 7/22 - 6/23
Coverage Includes	1. Coverage A - Workers' Compensation 2. Coverage B - Employer's Liability	4th Quarter Premium \$39,072
Coverage Limits Coverage A \$0 - \$2 Million \$2 Million to Statutory	Insurance Carrier Pooled Self-insured	Policy Number MOLC - 100110
Coverage Limits Coverage B \$0 - \$2 Million \$2 Million excess of \$2 Million SIR	Insurance Carrier Pooled Self-insured	Policy Number MOLC - 100110

Type of Coverage	<u>LIFE & ACCIDENT</u>	4th Quarter Premium \$10,255
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>	4th Quarter Premium \$11,802
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>	4th Quarter Premium \$1,883
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>	4th Quarter Premium \$334,597
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>	4th Quarter Premium \$15,044
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>	4th Quarter Premium \$3,339
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>	4th 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>	4th 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: July 24, 2023

From: Vishav Sharma, Chief Financial Officer

Subject: June bills for Approval and Monthly Financial Report

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

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

- The Statement of Net Position increased in June when compared to May primarily due to significant reimbursements received from the District's partners on the R-6 project for capital expenses incurred for the project. Year to date Net Assets have increased \$7.6 million during fiscal year 2023. The increase is almost entirely attributable to the reimbursements received from the R-6 Partners which help fund the construction expenses for the project which will become a fixed asset of the District upon completion.
- The Statement of Revenues, Expenses, and Changes in Net Position indicates the District currently has a year to date positive Change in Net Position of \$7,558,319 through the end of June. The District has received 94.2% of revenues (excluding contributions) and incurred 99.9% of expenses (with June being the 12th month of the year, revenues and expenses should be close to 100% of budget if the budget is an accurate forecast).
- The Cash and Investments report shows a total of \$14,615,001 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 \$18,803,882. These are the funds available for certain capital projects. The operating cash balance is low compared to the District's typical or average balance primarily because significant capital expenses were paid in June but the District did not receive cash reimbursement from the 2022 Bond proceeds or from the R-6 Project Partners by June 30, 2022.
- The payment summary includes ten checks greater than \$50,000, with the total equal to \$4,568,661.44. These expenses exceed the General Manager's purchase authority and Staff recommends the Board approve these checks. In addition, \$614,023.65 in payroll expenses occurred in May, District employees were reimbursed for \$2,161.43 in travel and certification related expenses, and Directors were reimbursed \$3,432.23 in travel expenses.

Attachment 1

Cash Sheet for the Month ending June 30, 2023

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

CHECK NUMBER	PAYMENT DATE	VENDOR NAME	PAYMENT AMOUNT
1370	06/05/2023	Layfield USA Corp	2,292,160.00
1509	06/27/2023	Sunflower Bank	565,268.35
1413	06/09/2023	Municipal Water District of Orange County	496,367.97
1504	06/26/2023	Irvine Ranch Water District	328,713.01
1437	06/19/2023	Alt Sales Corp	292,170.00
1412	06/09/2023	Moulton Niguel Water District	131,418.30
1385	06/09/2023	ACWA JPIA	129,783.98
1436	06/19/2023	ACWA JPIA	129,638.61
1512	06/19/2023	Southern California Edison Company	129,500.70
1495	06/23/2023	Resource Environmental, Inc.	73,640.52
TOTAL CHECKS OVER \$50,000			\$ 4,568,661.44
TOTAL CHECKS IN REGISTER			\$ 5,171,058.90

DEBIT TRANSFERS

	06/02/2023	PAYROLL DIRECT DEPOSIT	166,126.97
	06/02/2023	FEDERAL DEPOSIT LIABILITY	36,455.14
	06/02/2023	SDI & STATE TAX	12,163.43
	06/02/2023	WAGE GARNISHMENTS	282.50
	06/02/2023	EMPOWER (401K)	62,503.20
	06/02/2023	EMPOWER (457)	19,572.00
	06/02/2023	HEALTH SAVINGS ACCOUNT	25.00
	06/15/2023	PAYROLL BOARD OF DIRECTOR	5,750.05
	06/15/2023	SS, MEDICARE, SDI & STATE TAX	1,967.23
	06/15/2023	EMPOWER (457)	2,773.63
	06/15/2023	HEALTH SAVINGS ACCOUNT	404.00
	06/16/2023	PAYROLL DIRECT DEPOSIT	169,363.67
	06/16/2023	FEDERAL DEPOSIT LIABILITY	36,679.88
	06/16/2023	SDI & STATE TAX	14,559.64
	06/16/2023	WAGE GARNISHMENTS	190.00
	06/16/2023	EMPOWER (401K)	64,955.81
	06/16/2023	EMPOWER (457)	19,614.46
	06/16/2023	HEALTH SAVINGS ACCOUNT	25.00
	06/30/2023	BANK FEES	612.04
TOTAL INTERBANK WIRES / DEBIT TRANSFERS			\$ 614,023.65
TOTAL DISBURSEMENTS			\$ 5,785,082.55

REIMBURSEMENTS TO ETWD EMPLOYEES

CHECK NUMBER	PAYMENT DATE	PAYEE (DESCRIPTION)	PAYMENT AMOUNT
1374	06/05/2023	Sherri Seitz (Travel Expense)	1,455.16
1372	06/05/2023	Robert Hazzard (Certificate & Training)	355.00
1453	06/19/2023	Nicholas Carrera (Safety Glasses)	133.95
1394	06/09/2023	Cesar Cassani (Certificate)	100.00
1366	06/05/2023	Eric Nguyen (Mileage)	87.12
1481	06/23/2023	Dominic Bergin (Mileage)	30.20
TOTAL CHECKS TO EMPLOYEES			\$ 2,161.43

REINBURSEMENTS TO ETWD DIRECTORS

CHECK NUMBER	PAYMENT DATE	PAYEE (DESCRIPTION)	PAYMENT AMOUNT
1448	06/19/2023	Kathryn Freshley (Travel Expense)	1,382.74
1450	06/19/2023	Mark Monin (Travel Expense)	1,106.47
1452	06/19/2023	Michael Gaskins (Travel Expense)	943.02
TOTAL CHECKS TO DIRECTORS			\$ 3,432.23

Attachment 2
Statement of Net Position for the June, 2023

El Toro Water District
Interim Statement of Net Position for the Month of June, 2023

	6/30/2022 Ending	5/31/2023 Interim	6/30/2023 Interim	Change
Assets				
Current Assets				
Cash & Cash Equivalents	8,571,792	5,365,301	4,250,844	(1,114,457)
Investments	9,310,156	24,229,151	26,743,954	2,514,803
Accounts Receivable	4,039,853	6,174,896	9,802,783	3,627,887
Materials & Supply Inventory	782,349	782,349	785,881	3,532
Prepaid Expenses	256,087	235,600	235,600	-
Restricted - Cash & Cash Equivalents	26,797,887	7,649,494	2,420,887	(5,228,607)
Current Assets - Sub-total	49,758,124	44,436,792	44,239,950	(196,841)
Non-Current Assets				
Lease Receivable	432,962	432,962	432,962	-
Land & Easements	7,451,585	7,451,585	7,451,585	-
Capacity Rights	342,382	342,382	342,382	-
Capital Assets				
Water System	36,908,024	36,794,034	36,794,034	-
Wastewater System	56,969,901	56,713,516	56,713,516	-
Recycled System	55,454,389	55,454,389	55,454,389	-
Combined Assets	14,541,459	14,911,834	14,911,834	-
Construction in Progress	4,714,756	19,425,028	23,816,791	4,391,762
Accumulated Depreciation	(88,231,945)	(92,067,315)	(92,415,985)	(348,670)
Non-Current Assets - Sub-total	88,583,513	99,458,415	103,501,508	4,043,092
Total Assets	138,341,637	143,895,207	147,741,458	3,846,251
Deferred Outflows of Resources				
OPEB Deferred Outflow of Resources	4,564,293	4,564,293	4,564,293	-
Liabilities				
Current Liabilities				
Accounts Payable & Accrued Expenses	3,092,683	3,800,207	6,298,588	2,498,381
Accrued Salaries & Related Payables	111,062	206,535	298,769	92,234
Customer Deposits	54,147	21,050	21,050	-
Accrued Interest Payable	614,910	1,131,560	1,166,671	35,111
Long Term Liabilities - Due in One Year				-
Compensated Absences	197,729	197,729	197,729	-
Loans Payable	1,557,454	1,557,454	1,557,454	-
Current Liabilities - Sub-total	5,627,985	6,914,535	9,540,261	2,625,727
Non-Current Liabilities				
Compensated Absences	1,314,487	1,314,487	1,314,487	-
Other Post-Employment Benefits Liability	20,031,266	20,031,265	20,031,265	-
Loans Payable	55,678,799	55,678,799	53,608,025	(2,070,774)
Non-Current Liabilities - Sub-total	77,024,552	77,024,551	74,953,777	(2,070,774)
Total Liabilities	82,652,537	83,939,086	84,494,038	554,953
Deferred Inflows of Resources				
Deferred Amounts from Leases	636,695	636,695	636,695	-
Deferred Amounts from OPEB	953,259	953,259	953,259	-
Total Deferred Inflows of Resources	1,589,954	1,589,954	1,589,954	-
Net Position				
Net Investment in Capital Assets	30,402,906	42,222,162	48,336,029	6,113,866
Restricted - Capital Projects	2,895	2,895	2,895	-
Restricted - Debt Service	26,794,992	18,745,841	18,806,777	60,936
Unrestricted	1,462,646	1,959,562	(923,942)	(2,883,504)
Total Net Position	58,663,439	62,930,460	66,221,758	3,291,299

Attachment 3

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

Attachment 4

Summary of Revenues and Expenses for the June, 2023

El Toro Water District
Summary of Revenues and Expenses for the Month of June, 2023

Account - Description	Month Actual	YTD Actual	2022-2023 Budgeted	Budget Remaining	% of Budget Remaining
Summary of Total District Revenues					
District Totals					
Commodity Supply Charges	831,396	9,403,261	11,306,200	1,902,939	16.8%
Service Charges	1,118,016	13,168,939	13,346,700	177,761	1.3%
Capital Facility Charges	276,584	3,227,216	3,262,600	35,384	1.1%
Charges for Services	-	3,975	246,000	242,025	98.4%
Miscellaneous Revenue	23,504	271,486	307,800	36,314	11.8%
Grants, Rebates, Reimbursements	3,979,287	12,218,226	357,100	(11,861,126)	-3321.5%
Property Taxes	93,337	1,120,004	1,120,000	(4)	0.0%
Investment Income	44,803	816,696	100,000	(716,696)	-716.7%
Donations & Capital Contributions	-	-	-	-	N/A
Total Revenue	6,366,929	40,229,803	30,046,400	(10,183,403)	-33.9%
Summary of Total District Expenses					
Salary Expenses					
Directors Fees	21,243	138,408	131,400	(7,008)	-5.3%
Exempt Salaries	170,015	1,393,220	1,260,270	(132,950)	-10.5%
Non-exempt Salaries	674,073	5,397,050	5,343,800	(53,250)	-1.0%
Other Salary Payments	1,908	1,908	189,400	187,492	99.0%
Overtime	24,193	178,470	230,000	51,530	22.4%
Overtime - On-call	11,850	59,666	72,800	13,134	18.0%
Stipends/Allowances	5,280	35,950	74,900	38,950	52.0%
Employee Service Awards	600	3,650	5,000	1,350	27.0%
Salary Expenses Sub-total	909,162	7,208,321	7,307,570	99,249	1.4%
Benefit Expenses					
Medical Insurance	100,475	1,040,555	1,131,500	90,945	8.0%
HSA Contributions	3,294	3,294	4,500	1,206	26.8%
Dental Insurance	5,467	55,692	61,000	5,308	8.7%
Vision Insurance	1,378	12,227	13,300	1,073	8.1%
Life Insurance	5,870	33,430	36,600	3,170	8.7%
Disability Insurance	208	55,073	39,590	(15,483)	-39.1%
Long-term Care Insurance	110	4,019	11,600	7,581	65.4%
Workers Compensation Insurance	17,316	138,849	128,900	(9,949)	-7.7%
State Unemployment Insurance	-	-	3,000	3,000	100.0%
401k Retirement Contributions	78,046	631,026	594,300	(36,726)	-6.2%
401k Matching Contributions	48,767	381,281	-	(381,281)	N/A
457b Matching Contributions	16,253	115,887	456,200	340,313	74.6%
Medicare Insurance	12,340	98,417	100,600	2,183	2.2%
FICA	287	3,548	-	(3,548)	N/A
Retiree Medical Insurance Payments	-	-	-	-	N/A
Benefit Expenses Sub-total	289,812	2,573,297	2,581,090	7,793	0.3%
Commodity Purchased for Resale					
Water Purchases - MWDOC	594,103	2,790,873	4,024,200	1,233,327	30.6%
Water Purchases - MWDOC Fixed	114,646	728,437	667,000	(61,437)	-9.2%
Water Purchases - AMP/SAC	5,214	29,037	9,000	(20,037)	-222.6%
Regional Water Supply Expenses	-	6,570	-	(6,570)	N/A
Water Purchases - Baker WTP	333,108	2,783,101	2,881,760	98,659	3.4%
Water Purchases - Baker O&M	251,531	649,360	778,900	129,540	16.6%
Water Purch - Other Agencies	215,035	444,174	-	(444,174)	N/A
MWDOC Service Connect Charge	-	116,224	125,000	8,776	7.0%
Commodity Purchased for Resale Sub-total	1,513,637	7,547,776	8,485,860	938,084	11.1%

El Toro Water District
Summary of Revenues and Expenses for the Month of June, 2023

Account - Description	Month Actual	YTD Actual	2022-2023 Budgeted	Budget Remaining	% of Budget Remaining
Contracted/Purchased Services					
Consultants	7,112	44,599	75,000	30,401	40.5%
Engineering Services	2,820	28,085	52,000	23,915	46.0%
Audit & Accounting Services	460	29,486	28,600	(886)	-3.1%
Technology Consultants	4,700	73,753	60,000	(13,753)	-22.9%
Contractors	71,740	1,152,223	1,189,200	36,977	3.1%
Contracted Employees	10,786	81,970	-	(81,970)	N/A
Legal Svcs - General Counsel	15,148	88,807	110,000	21,193	19.3%
Legal Svcs - Specialty Counsel	1,742	7,469	5,000	(2,469)	-49.4%
Other Legal Services	7,584	11,185	-	(11,185)	N/A
Employee Recruitmnt/Compliance	307	33,617	5,000	(28,617)	-572.3%
Employee Health & Wellness	3,125	26,904	17,000	(9,904)	-58.3%
Employee Relations Expenses	939	22,119	2,000	(20,119)	-1006.0%
Professional Services	3,074	22,103	-	(22,103)	N/A
Landscaping Services	15,456	150,414	166,900	16,486	9.9%
Janitorial Contracts	9,594	41,890	45,000	3,110	6.9%
Equipment Rental	1,683	11,619	17,000	5,381	31.7%
Uniform Rental	3,922	16,620	20,000	3,380	16.9%
Laboratory Services	4,561	31,654	42,000	10,346	24.6%
Disposal Services	14,038	102,842	34,000	(68,842)	-202.5%
Security Services	1,962	24,608	24,800	192	0.8%
Insurance	24	348,746	344,000	(4,746)	-1.4%
Financial Service Fees	4,559	38,150	55,000	16,850	30.6%
Printing & Reproduction	1,803	27,144	23,000	(4,144)	-18.0%
Advertising & Publicity Svcs	2,705	5,381	11,000	5,619	51.1%
Postage	1,282	9,051	20,000	10,949	54.7%
Community Relations/Education	6,377	129,931	190,600	60,669	31.8%
Licenses & Permits	29,309	196,592	189,200	(7,392)	-3.9%
Software Maintenance/Licenses	36,284	247,382	217,900	(29,482)	-13.5%
Electrical Power	118,106	1,488,040	1,508,500	20,460	1.4%
Natural Gas	1,763	9,964	4,500	(5,464)	-121.4%
Cable Service	463	3,900	11,500	7,600	66.1%
Telecommunications	4,460	23,964	20,000	(3,964)	-19.8%
Mobile Telecommunications	6,672	38,791	35,000	(3,791)	-10.8%
Data Access	6,304	58,237	65,000	6,763	10.4%
Equipment Maintenance & Repair	14,839	169,722	100,800	(68,922)	-68.4%
Pump Maintenance & Repair	17,450	122,936	103,500	(19,436)	-18.8%
Motor Maintenance & Repair	39,984	67,496	81,500	14,004	17.2%
Electrical Maintenance/Repair	56,468	97,270	136,400	39,130	28.7%
Meter Maintenance & Repair	14,383	113,052	14,800	(98,252)	-663.9%
Structure Maintenance & Repair	2,720	113,732	23,000	(90,732)	-394.5%
Asphalt Maintenance & Repair	24,408	132,872	58,600	(74,272)	-126.7%
Contracted/Purchased Services Sub-total	571,116	5,444,317	5,107,300	(337,017)	-6.6%
Commodities					
Repair Parts & Materials	40,577	311,221	389,500	78,279	20.1%
Tools & Small Equipment	7,452	71,582	66,700	(4,882)	-7.3%
Safety Equipment	6,559	23,084	38,000	14,916	39.3%
Employee Tools/Safety Equip	1,067	16,208	23,960	7,752	32.4%
Laboratory Tools & Small Equip	-	7,113	-	(7,113)	N/A
Technology Tools/Small Equip	24	35,142	35,000	(142)	-0.4%
Chemicals	28,555	209,476	259,200	49,724	19.2%
Gasoline & Oil	38,961	138,626	160,000	21,374	13.4%
Operating Supplies/Accessories	10,643	63,619	49,500	(14,119)	-28.5%
Office Supplies & Accessories	2,357	16,013	22,940	6,927	30.2%
Technology Supplies/Components	413	43,194	30,000	(13,194)	-44.0%
Meeting/Event Supplies & Food	3,610	38,950	28,000	(10,950)	-39.1%
Water Use Efficiency Supplies	178	1,642	15,000	13,358	89.1%
Commodities Sub-total	140,395	975,870	1,117,800	141,930	12.7%

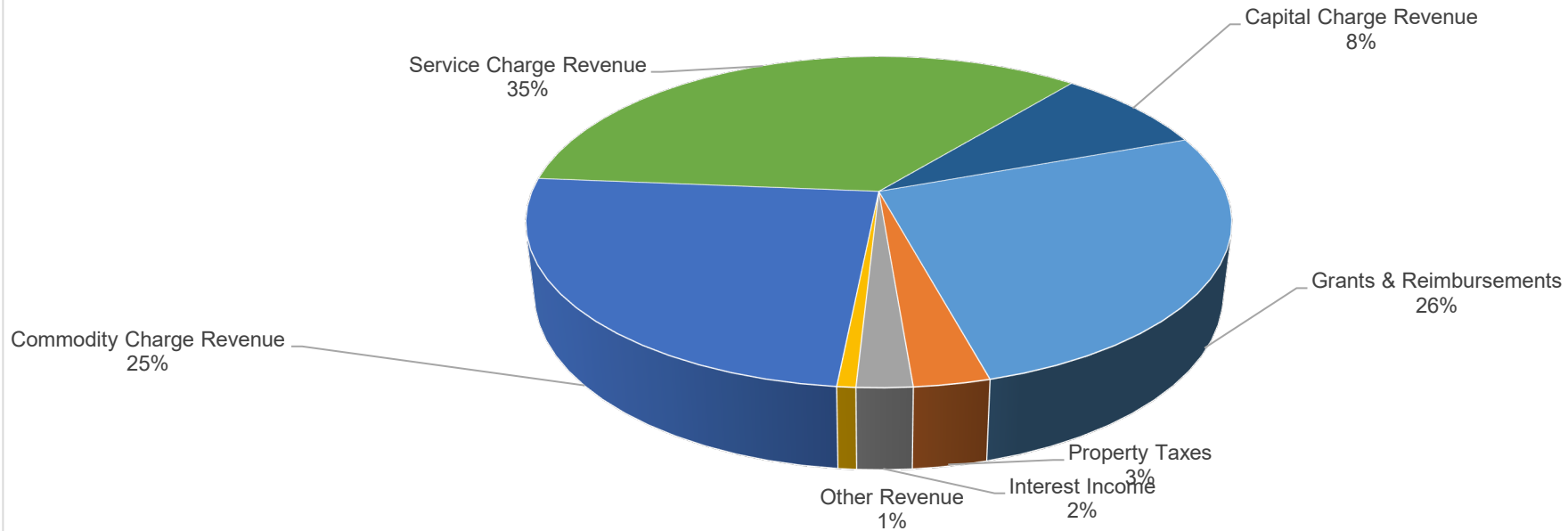
El Toro Water District
Summary of Revenues and Expenses for the Month of June, 2023

Account - Description	Month Actual	YTD Actual	2022-2023 Budgeted	Budget Remaining	% of Budget Remaining
Professional Development					
Education & Training	12,146	47,445	46,940	(505)	-1.1%
Education/Training - Directors	-	-	-	-	N/A
Dues & Memberships	1,525	50,019	42,080	(7,939)	-18.9%
Dues & Memberships - Directors	1,896	50,910	63,120	12,210	19.3%
Meetings & Conferences	1,123	6,731	15,880	9,149	57.6%
Meetings/Conferences-Directors	2,855	13,585	27,420	13,835	50.5%
Travel Reimbursement	2,055	14,023	17,800	3,777	21.2%
Travel Reimbursement-Directors	5,447	21,349	32,600	11,251	34.5%
Publications & Subscriptions	3,806	11,845	22,200	10,355	46.6%
Professional Development Sub-total	30,853	215,907	268,040	52,133	19.4%
Miscellaneous Expenses					
Employee Appreciation Expenses	4,447	-	25,880	25,880	100.0%
Internal/External Event Expenses	-	263	5,760	5,497	95.4%
Election Expense	150	-	16,800	16,800	100.0%
Reimbursable Repair Expense	1,643	39	54,710	54,671	99.9%
Property Taxes	-	2,617	4,800	2,183	45.5%
Uncollectible Accounts	2,004	8,608	30,240	21,632	71.5%
NSFs & Miscellaneous Fees	109	2,283	4,680	2,397	51.2%
Refund Overcharges	3,337	12,626	16,120	3,494	21.7%
Damage/Repair Reimbursements	3,298	1,400	19,160	17,760	92.7%
Miscellaneous Sub-total	14,988	27,837	178,150	150,313	84.4%
Capital Improvement Expenses					
Water System Projects					
Supply/Storage Projects	4,021,522	16,888,164	9,533,900	(7,354,264)	-77.1%
Pumping Projects	16,972	61,772	1,944,231	1,882,459	96.8%
Main/Service Line Projects	-	-	-	-	N/A
Wastewater System Projects					
Pumping Projects	32,962	477,255	935,000	457,745	49.0%
Wastewater Treatment Projects	442	445,006	1,709,800	1,264,794	74.0%
Main/Service Line Projects	-	-	-	-	N/A
Recycled System Projects					
Pumping Projects	-	9,546	-	(9,546)	N/A
Tertiary Treatment Projects	-	59,033	-	(59,033)	N/A
Main/Service Line Projects	-	-	-	-	N/A
General Projects					
Operating Equipment Purchases	18,773	43,641	53,000	9,359	17.7%
Vehicle & Related Equipment Purchases	363,818	399,818	364,000	(35,818)	-9.8%
Technology Projects & Purchases	-	81,461	120,000	38,539	32.1%
Building & Structure Improvements	27,763	937,063	-	(937,063)	N/A
General Capital Projects	150,406	1,364,662	107,900	(1,256,762)	-1164.7%
Construction in Progress	(4,192,102)	(18,473,102)	(14,290,300)	4,182,802	-29.3%
Capital Improvement Expenses Sub-total	440,555	2,294,319	477,531	(1,816,788)	-380.5%
Other Expenses					
Retiree Health Insurance	-	218,569	320,000	101,431	31.7%
Depreciation	348,670	3,522,166	4,195,500	673,334	16.0%
Debt Interest Expense	110,620	2,625,095	2,240,000	(385,095)	-17.2%
Other Expenses Sub-total	459,290	6,365,830	6,755,500	389,670	5.8%
Total Expenses	4,369,808	32,653,474	32,278,841	(374,633)	-1.2%
Change in Net Position	1,997,121	7,558,319	(2,232,441)		

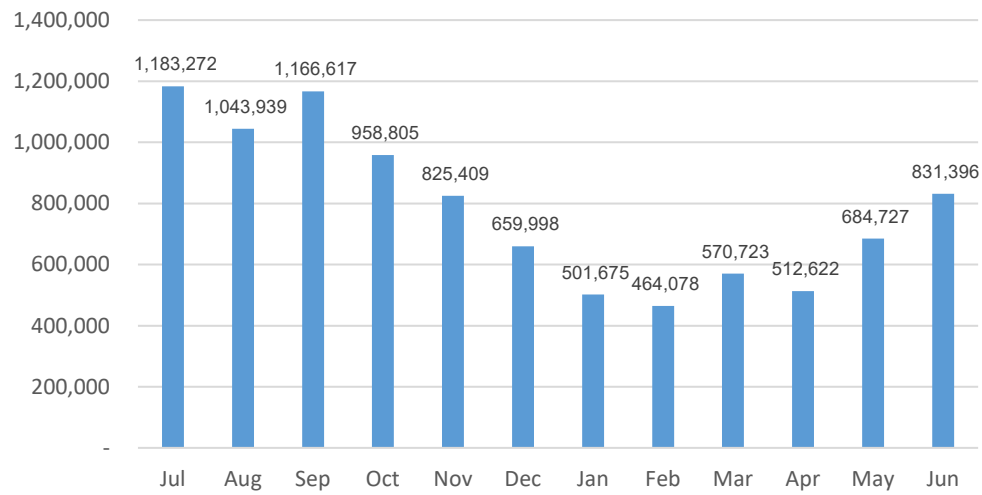
Attachment 5
Revenue and Expense Charts for June, 2023

Revenue Charts - May Financial Report

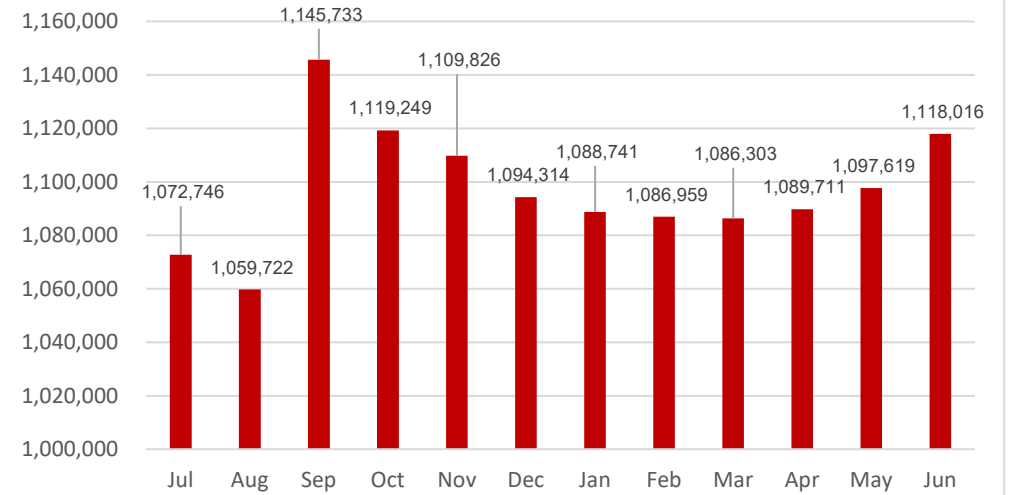
Year to Date Distribution of Revenues



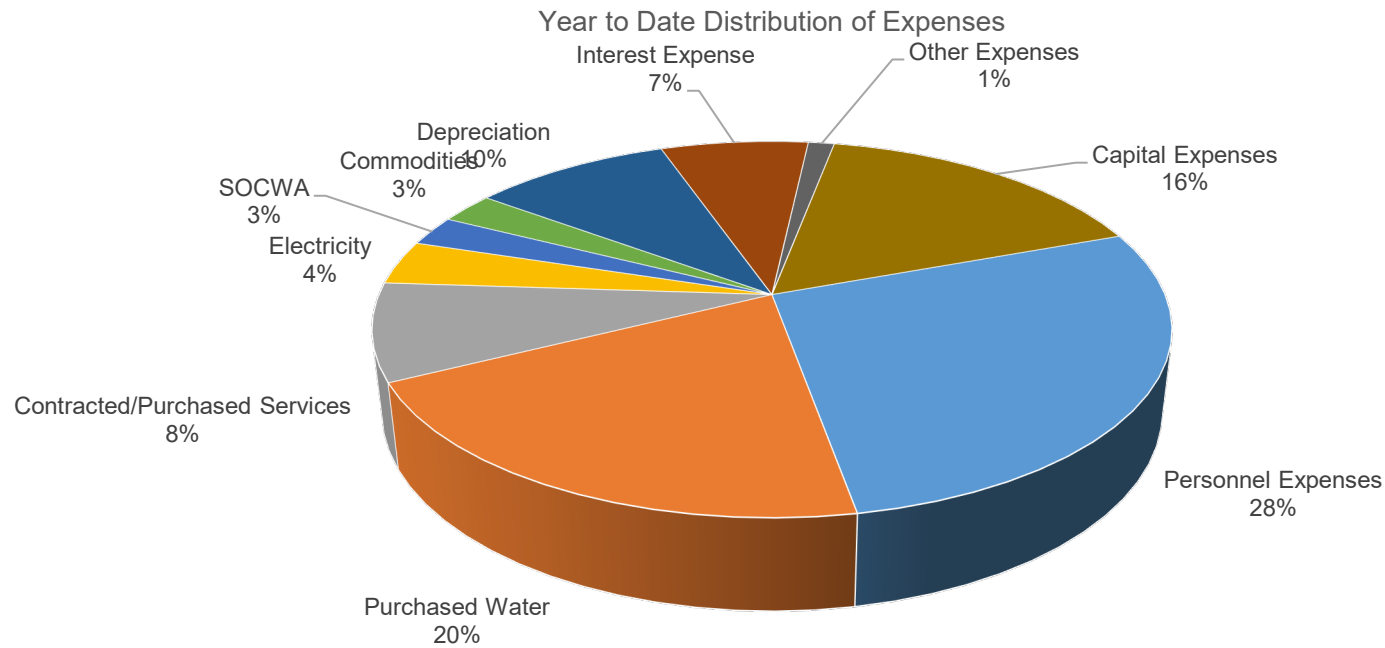
Commodity Charge Revenue by Month



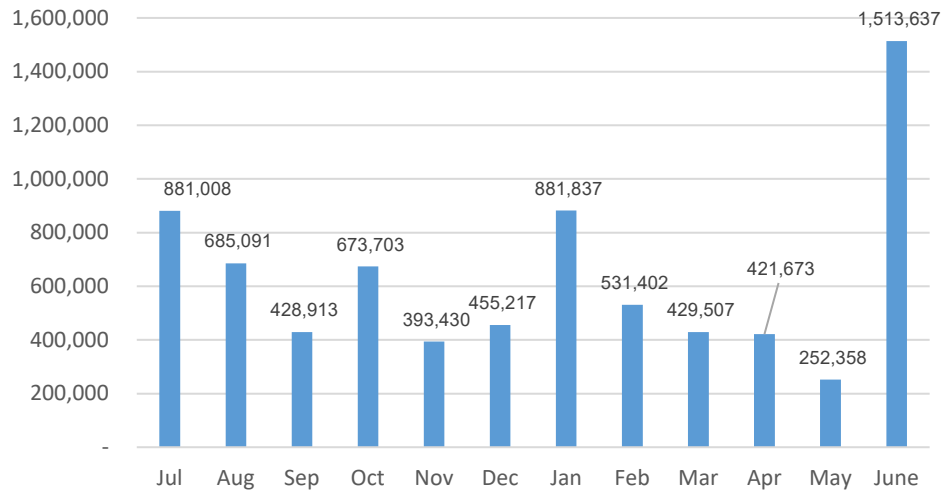
Service Charge Revenue by Month



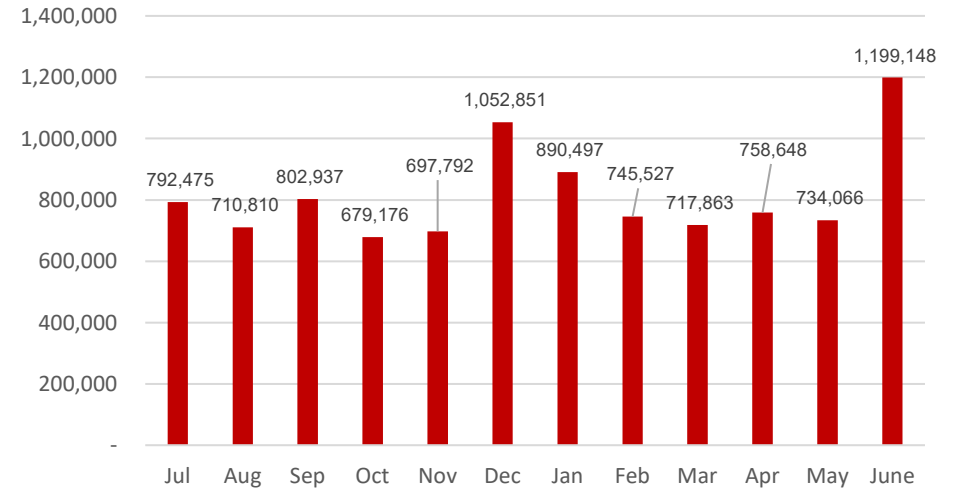
Expense Chart - May Financial Report



Purchased Water Expenses by Month



Personnel Costs by Month

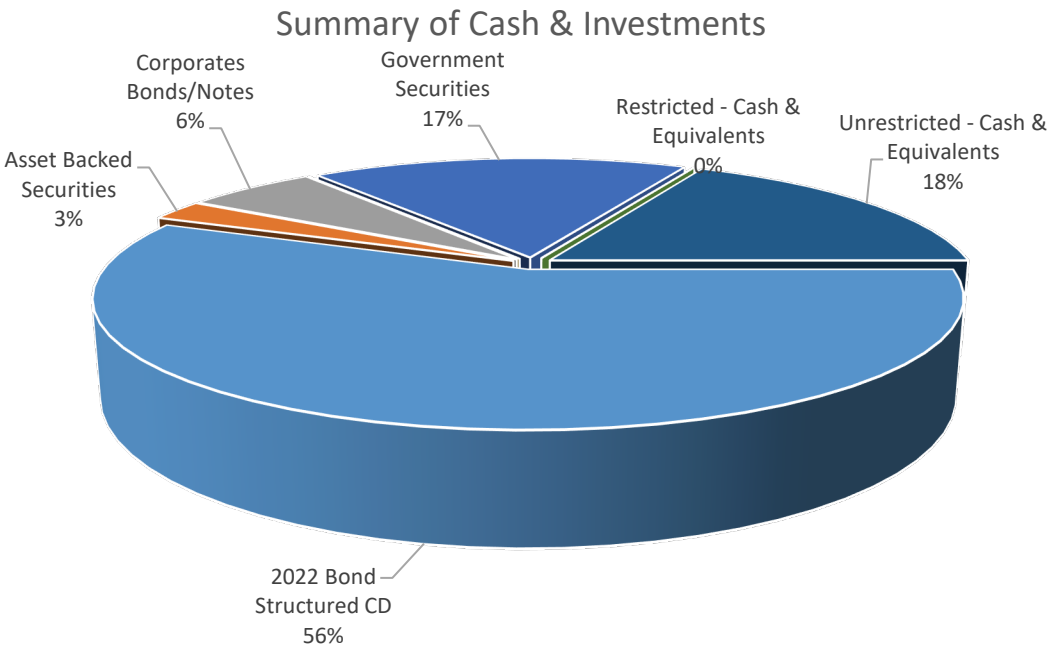


Attachment 6

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

Summary of Cash & Investments
as of June 30, 2023

Summary of Cash & Investments		
Cash & Equivalents		
Unrestricted - Cash & Equivalents	5,921,691	
Restricted - Cash & Equivalents	2,895	
Investments		
Government Securities	5,845,690	
Certificates of Deposit	-	
Corporates Bonds/Notes	2,007,004	
Asset Backed Securities	837,718	
2022 Bond Structured CD	18,803,882	
Total Cash & Investments	33,418,879	
Operating Cash & Investments	14,615,001	
2022 Bond Proceeds Cash & Investments	18,803,882	



Cash & Equivalents

	Account Balance	Current Yield
Cash & Equivalents		
Demand Deposit Accounts		
Union Bank - Checking Account	2,231,954	
Union Bank - 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	784,077	
LAIF Money Market	2,904,960	
Total Cash & Equivalents	5,924,586	

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	4,353,327	4,353,327	-	4,353,327	-	2.140%	2.14%	8/1/2022	Various
US Bank Structured Maturity CD	4,353,327	4,353,327	-	4,353,327	-	2.140%	2.14%	8/1/2022	Various
US Bank Structured Maturity CD	10,097,227	10,097,227	-	10,097,227	-	2.140%	2.14%	8/1/2022	Various
Certificates of Deposit - Total Balances	18,803,882	18,803,882	-	18,803,882	-				

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+	199,688	200,000	(313)	199,594	(94)	0.125%	0.19%	3/1/2021	7/15/2023
US Treasury N/B - AA+	399,828	400,000	(172)	399,188	(641)	0.125%	0.14%	2/1/2021	7/15/2023
US Treasury N/B - AA+	498,809	500,000	(1,191)	496,953	(1,855)	0.125%	0.23%	4/1/2021	8/15/2023
US Treasury N/B - AA+	89,982	90,000	(18)	88,327	(1,656)	0.250%	0.26%	4/26/2021	11/15/2023
US Treasury N/B - AA+	298,734	300,000	(1,266)	290,344	(8,391)	0.250%	0.27%	3/1/2021	2/15/2024
US Treasury N/B - AA+	164,807	165,000	(193)	156,105	(8,701)	0.375%	0.42%	9/3/2021	8/15/2024
US Treasury N/B - AA+	34,854	35,000	(146)	32,988	(1,866)	0.375%	0.52%	10/7/2021	9/15/2024
US Treasury N/B - AA+	347,047	350,000	(2,953)	329,109	(17,938)	1.125%	1.42%	2/4/2022	1/15/2025
US Treasury N/B - AA+	149,566	150,000	(434)	144,070	(5,496)	2.750%	2.85%	6/1/2022	5/15/2025
US Treasury N/B - AA+	466,543	500,000	(33,457)	467,656	1,113	2.125%	4.20%	11/30/2022	5/31/2026
US Treasury N/B - AA+	464,531	500,000	(35,469)	464,922	391	2.250%	4.10%	11/30/2022	2/15/2027
US Treasury N/B - AA+	480,273	500,000	(19,727)	480,859	586	3.250%	4.25%	2/22/2023	6/30/2027
US Treasury N/B - AA+	502,500	500,000	2,500	497,188	(5,313)	4.125%	4.01%	11/30/2022	9/30/2027
US Treasury N/B - AA+	497,930	500,000	(2,070)	497,188	(743)	4.125%	4.22%	2/22/2023	9/30/2027
US Treasury N/B - AA+	485,332	500,000	(14,668)	485,625	293	3.500%	4.16%	2/22/2023	1/3/2028
United States Treasury Bond - Totals	5,080,424	5,190,000	(109,576)	5,030,115	(50,309)				
Supra-National Agency Bond / Note									
Inter-American Devel BK Note - AAA	184,863	185,000	(137)	174,345	(10,518)	0.500%	0.52%	9/15/2021	9/23/2024
Supra-National Agency Bond / Note Totals	184,863	185,000	(137)	174,345	(10,518)				
Municipal Bond / Note									
NJ TPK Authority TXBL Revenue Bonds - AA-	20,000	20,000	-	18,754	(1,246)	0.897%	0.90%	1/22/2021	1/1/2025
Municipal Bond / Note Totals	20,000	20,000	-	18,754	(1,246)				
Federal Agency Commercial Mortgage-Backed Security									
FHMS K724 - AA+	52,799	49,459	3,340	49,030	(3,769)	3.062%	0.58%	1/28/2021	11/1/2023
FHLMC Multifamily Structured Pool - AA+	91,899	91,777	122	89,297	(2,602)	3.064%	3.00%	5/25/2022	8/1/2024
FHMS K047 - AA+	90,577	90,000	577	86,888	(3,688)	3.329%	3.10%	5/19/2022	5/1/2025
Federal Mortgage-Backed Security Totals	235,274	231,236	4,039	225,215	(10,059)				
Federal Agency Bond / Note									
Freddie Mac Notes - AA+	155,087	155,000	87	152,318	(2,769)	0.250%	0.23%	1/6/2021	11/6/2023
Fannie Mae Notes - AA+	250,107	250,000	107	244,943	(5,165)	0.250%	0.24%	1/6/2021	11/27/2023
Federal Agency Bond / Note Totals	405,194	405,000	194	397,261	(7,933)				
Governmental Securities - Total Balances	5,925,756	6,031,236	(105,480)	5,845,690	(80,066)				

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)	68,149	(1,847)	0.450%	0.45%	1/6/2021	1/11/2024
John Deere Corp Notes - A	54,961	55,000	(39)	53,489	(1,472)	0.450%	0.48%	3/4/2021	1/17/2024
Morgan Stanley Corp Notes - A-	55,000	55,000	-	54,948	(52)	0.529%	0.53%	1/20/2021	1/25/2024
PACCAR Financial Corp Corporate Note - A+	64,925	65,000	(75)	63,000	(1,925)	0.350%	0.39%	1/28/2021	2/2/2024
Microsoft Corp (Callable) Note - AAA	46,864	45,000	1,864	44,327	(2,538)	2.875%	0.95%	12/1/2021	2/6/2024
National Rural Util Coop Corporate Note - A-	24,983	25,000	(17)	24,196	(786)	0.350%	0.37%	2/8/2021	2/8/2024
Apple Inc (Callable) Note - AA+	52,381	50,000	2,381	49,257	(3,124)	3.000%	0.870%	11/1/2021	2/9/2024
Goldman Sachs Corp Notes - BBB+	44,062	40,000	4,062	39,543	(4,519)	4.000%	0.690%	1/21/2021	3/3/2024
Merck & Co Inc Corp Notes	31,377	30,000	1,377	29,420	(1,957)	2.900%	0.880%	11/16/2021	3/7/2024
Charles Schwab Corp Note	29,985	30,000	(15)	28,933	(1,052)	0.750%	0.770%	3/16/2021	3/18/2024
Suntrust Bank (Callable) Corp Note	63,197	60,000	3,197	58,765	(4,432)	3.200%	0.960%	11/1/2021	4/1/2024
Comcast Corp (Callable) Corp Note	53,305	50,000	3,305	49,235	(4,070)	3.700%	0.960%	11/1/2021	4/15/2024
Bank of NY Mellon Corp Note	54,941	55,000	(59)	52,796	(2,145)	0.500%	0.540%	4/19/2021	4/26/2024
Novartis Capital Corp Note	53,112	50,000	3,112	49,151	(3,961)	3.400%	0.890%	11/1/2021	5/6/2024
Amazon.com Inc Corp Note	79,883	80,000	(117)	76,594	(3,289)	0.450%	0.500%	5/10/2021	5/12/2024
Unitedhealth Group Inc Corp Note	29,969	30,000	(31)	28,784	(1,185)	0.550%	0.590%	5/17/2021	5/15/2024
Unitedhealth Group Inc Corp Note	29,476	30,000	(524)	28,784	(692)	0.550%	1.320%	1/21/2022	5/15/2024
Caterpillar Finl Service Corp Note	44,940	45,000	(60)	43,036	(1,904)	0.450%	0.500%	5/10/2021	5/17/2024
Astrazeneca Finance LLC (Callable) Corp	49,996	50,000	(5)	47,900	(2,096)	0.700%	0.700%	5/25/2021	5/28/2024
John Deere Capital Corp Notes	9,988	10,000	(13)	9,544	(444)	0.450%	0.490%	6/7/2021	6/7/2024
Target Corp Notes	31,879	30,000	1,879	29,456	(2,424)	3.500%	1.040%	11/23/2021	7/1/2024
American Express Co Corp Notes	36,253	35,000	1,253	33,861	(2,392)	2.500%	1.140%	11/19/2021	7/30/2024
American Honda Finance Corp Notes	29,980	30,000	(20)	28,488	(1,492)	0.750%	0.770%	9/7/2021	8/9/2024
American Honda Finance Corp Notes	35,025	35,000	25	33,236	(1,789)	0.750%	0.720%	9/13/2021	8/9/2024
Caterpillar Finl Service Corp Notes	19,973	20,000	(27)	18,889	(1,084)	0.600%	0.650%	9/7/2021	9/13/2024
Bank of NY Mellon Corp Note	24,984	25,000	(16)	23,490	(1,493)	0.850%	0.870%	10/20/2021	10/25/2024
Apple Inc Corp Note - AA+	42,786	40,000	2,786	38,529	(4,258)	2.750%	0.890%	3/11/2021	1/13/2025
Goldman Sachs Corp Notes	10,000	10,000	-	9,739	(261)	1.757%	1.760%	1/19/2022	1/24/2025
Bank of America Corp Notes	20,000	20,000	-	19,481	(519)	1.843%	1.840%	2/1/2022	2/4/2025
Merck & Co Inc Corp Notes	21,389	20,000	1,389	19,285	(2,104)	2.750%	0.940%	3/9/2021	2/10/2025
3M Company Corp Note	69,744	70,000	(256)	66,064	(3,679)	2.000%	2.130%	3/3/2022	2/14/2025
JPMorgan Chase & Co Corp Note Call	30,000	30,000	-	28,942	(1,058)	0.563%	0.560%	2/9/2021	2/16/2025
Exon Mobil Corp Note	29,874	30,000	(126)	28,810	(1,064)	2.709%	2.860%	4/1/2022	3/6/2025
Bank of America Corp Notes	42,714	40,000	2,714	39,224	(3,490)	3.458%	1.530%	7/22/2021	3/15/2025
Intel Corp Notes	30,873	30,000	873	29,043	(1,829)	3.400%	2.400%	3/8/2022	3/25/2025
Burlington North Santa Fe Corp Note Call	21,533	20,000	1,533	19,254	(2,279)	3.000%	1.070%	3/5/2021	4/1/2025
Amazon.com Inc Corp Notes	74,881	75,000	(119)	72,296	(2,585)	3.000%	3.060%	4/11/2022	4/13/2025
Home Depot Inc Corp Note	4,991	5,000	(9)	4,786	(205)	2.700%	2.760%	3/24/2022	4/15/2025
Target Corp Note	30,015	30,000	15	28,586	(1,429)	2.250%	2.230%	3/8/2022	4/15/2025
Bank of America Corp Notes (Callable)	70,000	70,000	-	67,030	(2,970)	0.976%	0.980%	4/16/2021	4/22/2025
Bank of NY Mellon Corp Note	46,148	45,000	1,148	42,188	(3,960)	1.600%	0.970%	3/10/2021	4/24/2025
Bank of NY Mellon Corp Note	19,997	20,000	(3)	19,197	(800)	3.350%	3.360%	4/19/2022	4/25/2025
Pepsico Inc Corp Note Call	21,400	20,000	1,400	19,102	(2,298)	2.750%	1.020%	3/5/2021	4/30/2025
Citigroup Inc Corp Notes	35,000	35,000	-	33,496	(1,504)	0.981%	0.980%	4/27/2021	5/1/2025
Suntrust Banks Inc Corp Notes	36,373	35,000	1,373	33,829	(2,544)	4.000%	2.690%	3/8/2022	5/1/2025
Charles Schwab Corp Note	40,616	40,000	616	38,507	(2,109)	3.850%	3.300%	6/1/2022	5/21/2025
Morgan Stanley Corp Notes (Callable)	10,000	10,000	-	9,497	(503)	0.790%	0.790%	5/26/2021	5/30/2025
Honeywell Intl Corp Note	20,360	20,000	360	18,637	(1,724)	1.350%	0.910%	3/5/2021	6/1/2025
JPMorgan Chase & Co Corp Note	25,000	25,000	-	23,756	(1,244)	0.824%	0.82%	5/24/2021	6/1/2025
National Rural Util Coop Corp Note	9,997	10,000	(3)	9,621	(376)	3.450%	3.46%	5/4/2022	6/15/2025
Intel Corp Notes	35,821	35,000	821	34,058	(1,764)	3.700%	2.95%	4/4/2022	7/29/2025
Citigroup Inc Corp Notes	20,000	20,000	-	18,724	(1,276)	1.281%	1.28%	10/27/2021	11/3/2025
State Street Corp Note	20,000	20,000	-	18,635	(1,365)	1.746%	1.75%	2/2/2022	2/6/2026
Citigroup Inc Corp Notes	15,000	15,000	-	14,327	(673)	3.290%	3.29%	3/10/2022	3/17/2022
State Street Corp Note	61,208	60,000	1,208	57,289	(3,918)	2.901%	2.38%	2/17/2022	3/30/2026
JPMorgan Chase & Co (Callable)	80,000	80,000	-	77,800	(2,200)	4.080%	4.08%	4/19/2022	4/26/2026
Corporate Bonds - Total Balances	2,117,152	2,080,000	37,152	2,007,004	(110,148)				

Investments (continued)

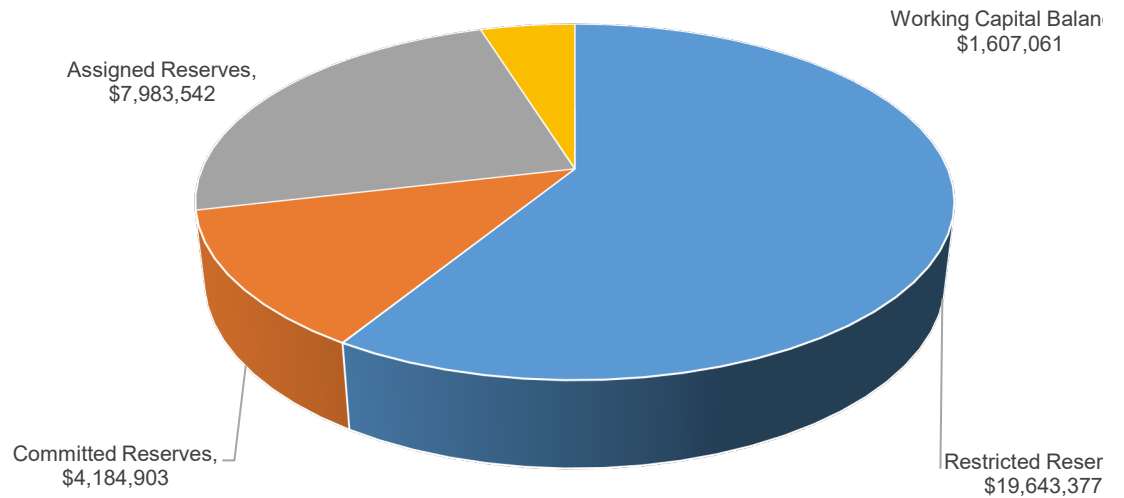
	Purchase Cost	Par Amount	Premium/ (Discount)	Market Value	Unrealized Gain/(Loss)	Coupon Rate	Yield to Maturity	Purchase Date	Maturity Date
Asset Backed Securities									
FordL 2021 - AAA	28,422	28,427	(5)	28,277	(145)	0.370%	0.380%	9/21/2021	10/15/2024
Harot 2021 - Aaa	10,108	10,108	(0)	9,867	(240)	0.270%	0.270%	2/17/2021	4/21/2025
FordO 2021 - AAA	14,447	14,448	(1)	14,050	(397)	0.300%	0.300%	2/17/2021	8/15/2025
Harot 2021 - Aaa	24,711	24,712	(1)	24,040	(671)	0.330%	0.330%	5/18/2021	8/15/2025
GMCar 2021 - AAA	6,472	6,473	(1)	6,316	(155)	0.350%	0.350%	1/12/2021	10/16/2025
Harot 2021 - AAA	33,395	33,396	(0)	32,137	(1,258)	0.410%	0.410%	8/17/2021	11/18/2025
Carmx 2021 - AAA	7,379	7,380	(1)	7,167	(212)	0.340%	0.340%	1/20/2021	12/15/2025
Harot 2021 - Aaa	24,995	25,000	(5)	24,035	(960)	0.880%	0.890%	11/16/2021	1/21/2026
TAOT 2021 - AAA	29,999	30,000	(1)	28,767	(1,232)	0.710%	0.710%	11/9/2021	4/15/2026
Hart 2021 - AAA	19,996	20,000	(4)	19,223	(772)	0.740%	0.750%	11/9/2021	5/15/2026
Harot 2022 - AAA	44,993	45,000	(7)	43,013	(1,980)	1.880%	1.880%	2/15/2022	5/15/2026
FordO 2022 - Aaa	24,997	25,000	(3)	24,002	(995)	1.290%	1.290%	1/19/2022	6/15/2026
BMWOT 2021 - AAA	24,999	25,000	(1)	24,309	(690)	3.210%	3.210%	5/10/2022	8/25/2026
COPAR 2021 - AAA	25,000	25,000	(0)	23,878	(1,121)	0.770%	0.770%	10/19/2021	9/15/2026
FordO 2022 - Aaa	24,999	25,000	(1)	24,429	(570)	3.740%	3.740%	6/22/2022	9/15/2026
TAOT 2022 - AAA	29,999	30,000	(1)	29,008	(991)	2.930%	2.930%	4/7/2022	9/15/2026
DCENT 2021 - AAA	54,988	55,000	(12)	51,755	(3,233)	0.580%	0.580%	9/20/2021	9/15/2026
GMCar 2021 - AAA	24,999	25,000	(1)	23,925	(1,074)	0.680%	0.680%	10/13/2021	9/16/2026
Hart 2022 - AAA	54,998	55,000	(2)	52,806	(2,192)	2.220%	2.220%	3/9/2022	10/15/2026
Comet 2021 - AAA	49,993	50,000	(7)	47,067	(2,926)	1.040%	1.040%	11/18/2021	11/15/2026
Ally 2022 - AAA	59,988	60,000	(12)	58,430	(1,558)	3.310%	3.310%	5/10/2022	11/15/2026
GMCar 2022 - AAA	19,998	20,000	(2)	19,095	(903)	1.260%	1.260%	1/11/2022	11/16/2026
HDMOT 2022 - AAA	34,994	35,000	(6)	34,009	(985)	3.060%	3.060%	4/12/2022	2/15/2027
GMCar 2022 - AAA	24,995	25,000	(5)	24,161	(834)	3.100%	3.100%	4/5/2022	2/16/2027
Carmx 2022 - AAA	34,995	35,000	(5)	34,080	(915)	3.490%	3.490%	4/21/2028	2/16/2027
Comet 2022 - AAA	69,995	70,000	(5)	67,032	(2,963)	2.800%	2.800%	3/23/2022	3/15/2027
Comet 2022 - AAA	64,990	65,000	(10)	62,838	(2,152)	3.490%	3.490%	6/6/2022	5/15/2027
Corporate Bonds - Total Balances	869,841	869,943	(101)	837,718	(32,124)				

Attachment 7
Cash Reserve Balances for June, 2023

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

	Cash Reserve Balances	Reserve Targets
Reconciled Cash Balance	\$ 33,418,879	
Restricted Reserve		
Bond Project Reserve	18,803,882	-
Capital Facilities	2,895	-
Tiered Conservation	836,600	-
Restricted Reserve Total	19,643,377	-
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	(689,020)	-
Committed Reserves Total	4,184,903	7,200,000
Assigned Reserves		
Capital Improvement		
Carryover Capital	2,573,802	-
Accumulated Capital	1,835,281	-
SOCWA Capital Projects	3,366,017	-
Bond Project Reserve	-	-
Debt Service		
Baker Funding	208,442	-
O&M Working Capital	1,607,061	2,100,000
Assigned Reserves Total	9,590,603	2,100,000
Total Cash Reserves	33,418,883	
Adjusted Cash Reserves⁽¹⁾	14,615,001	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 June, 2023

El Toro Water District - Capital Projects Report, Fiscal Year 2022-2023																		
	2022 - 2023									2022 - 2023 Expenses								2022 - 2023
	Capital Project	Carryover Project	2022 - 2023 Budget	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total	Budget Remaining	
Source of Supply / Water Storage Projects (40-710)																		
R-6 Reservoir Cover/Liner Project (RES-0047)	9,465,300	-	9,465,300	-	2,057	-	34,961	-	592,230	1,646,439	1,798,442	4,517,590	2,636,935	68,317	3,886,842	15,183,813	(5,718,513)	
JRWSS Capital Contribution (RCE-0001)	12,400	-	12,400	-	-	-	-	816	-	2,057	389	-	559	-	-	3,821	8,579	
Baker WTP Capital Contribution (RCE-0002)	56,200	-	56,200	-	-	-	-	-	-	28,080	-	-	-	-	14,040	42,120	14,080	
JTM Pump Station (WPS-0093)	775,608	-	775,608	-	350	-	3,369	6,523	42,560	98,033	188,340	16,899	206,779	130,459	-	693,313	82,295	
Reservoir Mixer Improvements (RES-0014)	77,000	-	77,000	-	-	-	-	-	-	19,469	48,237	-	-	-	-	67,706	9,294	
R-2 Interior Recoating Project (GEN-0115)**	-	219,080	219,080	-	221,426	-	25,576	56,074	-	6,140	17,017	-	-	-	-	326,233	(107,153)	
Water Pumping Projects (40-720)																		
P-4 Pump Replacement (CAP-0024)	59,000	-	59,000	-	-	-	-	-	-	-	-	-	-	-	-	-	59,000	
Reservoir Mixer Improvements (RES-0014)	77,000	-	77,000	-	-	-	-	-	-	-	-	-	-	-	-	-	77,000	
Water Stations PLC Upgrade (CAP-0001)	-	76,734	76,734	-	-	-	-	-	-	-	-	-	-	-	-	-	76,734	
Spartan Pump Rehabilitation	32,000	-	32,000	-	-	-	-	-	-	-	-	-	-	-	-	-	32,000	
Wastewater Pumping Projects (40-740)																		
Aliso Creek Lift Station (CAP-0019)	310,510	275,000	585,510	-	2,948	-	-	-	-	5,645	351	-	-	-	3,812	12,756	572,754	
Aliso Creek Disconnect Switch (SLS-0116)	24,000	-	24,000	-	-	-	-	-	-	-	-	-	22,398	-	-	22,398	1,602	
4920 Siphon Project (CAP-0003)	-	170,000	170,000	-	2,417	-	-	-	-	-	-	-	-	-	-	2,417	167,583	
Sewer Stations PLC Upgrade (CAP-0002)	-	118,295	118,295	-	-	-	-	-	-	-	-	-	-	-	-	-	118,295	
Oso Lift Station Improvement (SLS-0112)	-	-	-	-	-	544	-	-	-	-	-	-	-	-	-	544	(544)	
Northline Hatch Replacement (SLS-0002)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11,181	11,181	(11,181)	
Wastewater Treatment Projects (40-750)																		
Secondary Clarifier & WAC Rehabilitation (CAP-0020)	200,000	-	200,000	-	-	-	-	-	-	-	-	-	-	-	-	-	200,000	
DAF Unit #2 Rehabilitation (CAP-0018)	128,000	75,000	203,000	-	-	-	-	-	-	15,219	-	-	-	-	-	15,219	187,781	
Ocean Outfall LS Rehabilitation (SLS-0114)	75,000	33,962	108,962	-	217,061	-	-	-	-	-	-	-	20,726	-	-	237,787	(128,825)	
SOCWA Capital Contributions (RCE-0003)	501,800	-	501,800	20,279	-	-	26,178	-	-	-	101,063	-	31,244	-	-	178,764	323,036	
WRP Effluent PS Rehabilitation (SLS-0133)	-	142,000	142,000	-	12,350	15,200	-	41,088	-	-	-	-	-	-	-	68,638	73,362	
Headworks Barscreen Retrofit (CAP-0021)	515,000	-	515,000	-	-	-	-	-	-	-	-	-	-	-	-	-	515,000	
Fine Screen Facility Rehabilitation (CAP-0022)	230,000	-	230,000	-	-	-	-	-	-	-	-	-	-	-	6,577	6,577	223,424	
Headworks Barscreen PLC Panel Replacement	60,000	-	60,000	-	-	-	-	-	-	-	-	-	-	-	-	-	60,000	
WRP Main Electrical Breaker Upgrade (WRP-0132)	-	124,547	124,547	-	-	-	97,284	-	-	-	-	-	-	-	-	97,284	27,263	
Wash Press System at Headworks (WRP-0133)	-	200,000	200,000	-	-	-	-	70,221	-	51,232	-	-	-	-	-	121,453	78,547	
Grit Chamber Rehabilitation/Recoating (WRP-0131)	-	65,661	65,661	-	-	-	-	-	-	-	59	-	-	-	442	502	65,159	
Ammonia Analyzer (WRP-0138) (Contingency)	-	-	-	-	-	-	-	24,868	-	-	-	-	-	-	-	24,868	(24,868)	
Recycled Treatment Projects (40-780)																		
Tertiary Disinfection Optimizer (WRP-0137)	-	-	-	-	8,606	-	1,963	-	-	10,619	-	-	19,345	-	-	40,533	(40,533)	
Operating Equipment Purchases (40-800)																		
Laboratory Equipment Purchases (OEP-0001)	33,000	-	33,000	-	-	-	-	-	-	-	-	-	-	-	-	-	33,000	
Collections Equipment Purchases (OEP-0002)	9,000	-	9,000	-	-	-	-	-	-	-	-	-	-	-	-	-	9,000	
Petroleum Equipment (OEP-0010)	11,000	-	11,000	-	-	-	-	-	-	-	-	-	-	-	-	-	11,000	
Vehicle & Equipment Purchases (40-810)																		
Boom Truck (VEH-0002)	315,000	-	315,000	-	-	-	-	3,553	-	-	-	36,000	-	-	292,170	331,723	(16,723)	
Trailer (VEH-0001)	49,000	-	49,000	-	-	-	-	5,128	-	-	-	-	49	-	-	5,177	43,823	
Technology Purchases (40-820)																		
22/23 ATS Replacements (TCP-0005)	30,000	-	30,000	-	-	-	-	-	-	-	-	-	-	-	-	-	30,000	
Technology Master Plan (TCP-0003)	90,000	-	90,000	-	-	-	-	-	-	-	-	-	-	-	-	-	90,000	
Security System Improvements (TCP-0006)	-	-	-	-	-	9,546	-	-	-	-	-	-	-	-	-	9,546	(9,546)	
SCADA Server Upgrades (TCP-0001)	-	-	-	-	-	-	-	-	-	-	-	-	16,347	-	-	16,347	(16,347)	
Boardroom AV System Upgrade (CAP-0025)	-	-	-	-	-	-	26,929	-	-	-	-	-	-	65,114	-	92,043	(92,043)	

El Toro Water District - Capital Projects Report, Fiscal Year 2022-2023																	
	2022 - 2023									2022 - 2023 Expenses							2022 - 2023
	Capital Project	Carryover Project	2022 - 2023 Budget	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total	Budget Remaining
Building & Structure Improvements (40-830)																	
Filter Plant Demolition/Re-use Project (GEN-0112)	-	221,548	221,548	-	2,057	-	16,879	68,063	305,969	277,630	46,286	-	20,000	273,296	98,507	1,108,686	(887,138)
Administration Bldg HVAC Project (GEN-0114)	-	201,384	201,384	-	-	-	-	930	1,146	237,420	37,849	27,384	68,178	-	16,556	389,463	(188,079)
General Capital Projects (40-840)																	
Asset Management Study (CAP-0023)	100,000	-	100,000	-	-	-	-	-	-	70,170	-	21,287	4,215	881	13,170	109,724	(9,724)
Water & Sewer Master Plan (SPS-0049)**	-	227,936	227,936	-	24,195	-	3,742	6,585	-	170,035	20,093	77,168	-	4,362	-	306,180	(78,244)
CalTrans I-5 Widening Project (GEN-0514)	-	-	-	-	-	-	-	100,133	10,440	-	-	-	-	-	-	110,573	(110,573)
Contingency (RCE-0004)	7,901	-	7,900	-	-	-	13,823	-	-	26,662	69,282	6,863	5,391	-	62,624	184,644	(176,744)
Capital Expenses by Project Area																	
Source of Supply/Water Storage Projects	10,386,508	219,080	10,605,588	-	223,833	-	63,906	63,413	634,790	1,800,218	2,052,425	4,534,490	2,844,273	198,776	3,900,882	16,317,006	(5,711,418)
Water Pumping Projects	168,000	76,734	244,734	-	-	-	-	-	-	-	-	-	-	-	-	-	244,734
Water Main/Service Line Projects	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wastewater Pumping Projects	334,510	563,295	897,805	-	5,365	544	-	-	-	5,645	351	-	22,398	-	14,993	49,296	848,509
Wastewater Treatment Projects	1,709,800	641,170	2,350,970	20,279	229,411	15,200	123,462	136,177	-	66,451	101,122	-	51,970	-	7,019	751,091	1,599,879
Wastewater Main/Service Line Projects	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Recycled Pumping Projects	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Recycled Treatment Projects	-	-	-	-	8,606	-	1,963	-	-	10,619	-	-	19,345	-	-	40,533	(40,533)
Recycled Main/Service Line Projects	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operating Equipment Purchases	53,000	-	53,000	-	-	-	-	-	-	-	-	-	-	-	-	-	53,000
Vehicle & Equipment Purchases	364,000	-	364,000	-	-	-	-	8,681	-	-	-	36,000	49	-	292,170	336,900	27,100
Technology Purchases	120,000	-	120,000	-	-	9,546	26,929	-	-	-	-	-	16,347	65,114	-	117,936	2,064
Building/Structure Improvement Projects	-	422,932	422,932	-	2,057	-	16,879	68,993	307,115	515,050	84,135	27,384	88,178	273,296	115,063	1,498,149	(1,075,217)
General Capital Projects	107,901	227,936	335,836	-	24,195	-	17,565	106,718	10,440	266,867	89,375	105,318	9,606	5,244	75,794	711,121	(375,285)
Total Capital Expenses	13,243,719	2,151,147	15,394,865	20,279	493,466	25,290	250,704	383,982	952,345	2,664,850	2,327,408	4,703,192	3,052,166	542,430	4,405,921	19,822,031	(4,427,166)

Project Management Designations

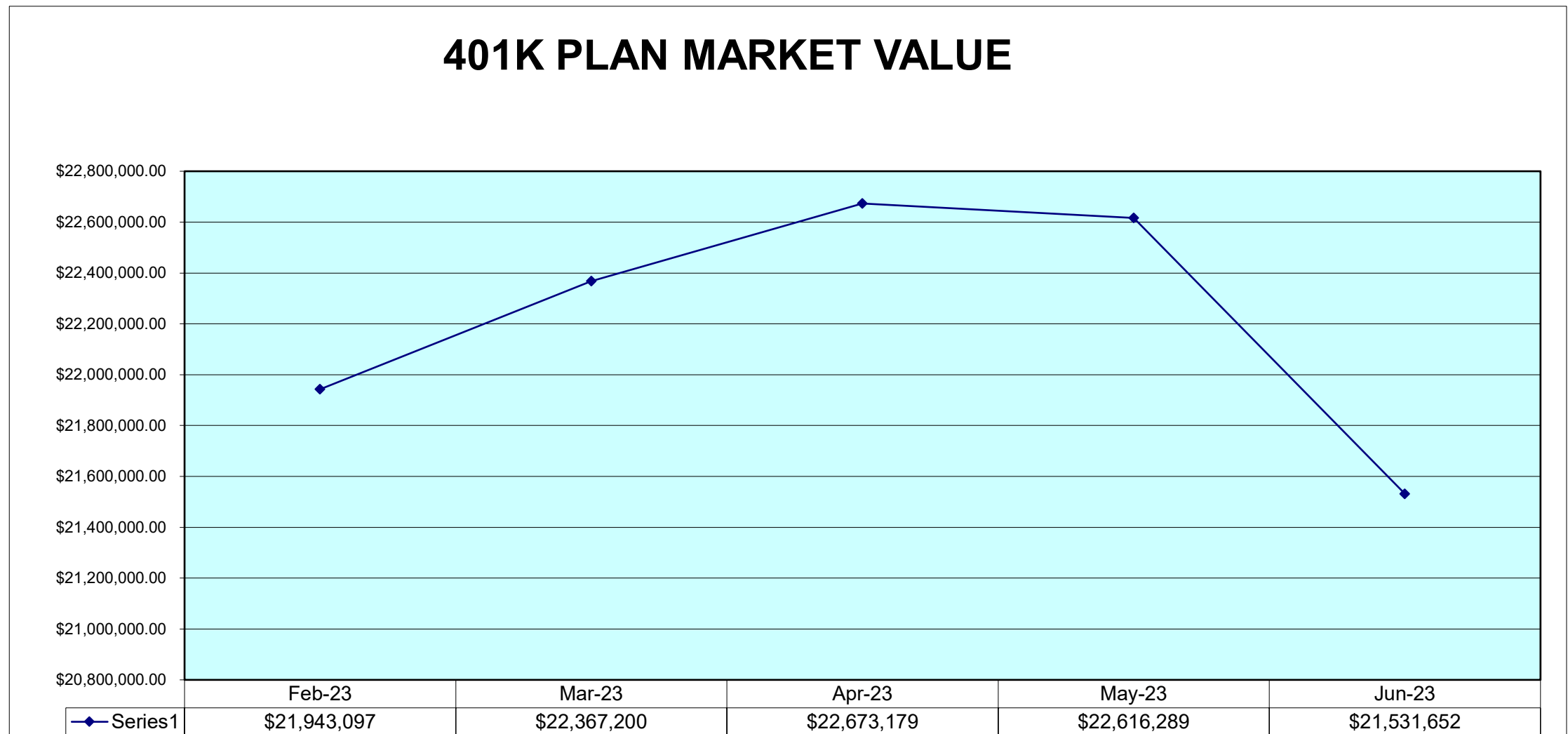
- CAP - Capital Projects (No Work Order)
- EFF - Effluent System*
- GEN - General Facility Improvements*
- OEP - Operating Equipment Purchases
- RCE - Recurring Capital Expenses
- RES - Water Reservoir Improvements*
- SCS - Wastewater Collection System*
- SLS - Sewer Lift Stations*
- SPS - Special Studies*
- TCP - Technology Capital Purchases*
- WPS - Water Pump Stations*
- WRP - Water Recycling Plant*
- VEH - Vehicle Capital Expense

* These projects will generally have an Engineering work order associated with them

Attachment 9
Interim Report on 401k Plan Holdings

EL TORO WATER DISTRICT

401K PLAN SUMMARY



	MARKET VALUE SUMMARY						
	26+ years to retirement	25-21 years to retirement	20-16 years to retirement	15-11 years to retirement	10-6 years to retirement	5-0 years to retirement	0+ years in retirement
Balance at June 30, 2022	\$1,733,972.40	\$1,464,595.40	\$953,052.03	\$3,481,975.23	\$7,738,613.81	\$6,406,094.97	\$1,462,806.94
Balance at June 30, 2023	\$1,453,829.32	\$2,096,047.13	\$1,103,884.85	\$2,889,586.52	\$7,738,763.70	\$3,738,570.57	\$2,510,969.57

1. Average return is calculated by dividing the interest, dividends and appreciation, net of fees by beginning fiscal year fund balance. The average return currently only includes the changes in balances through December 19, 2022 when the change from US Bank to Empower occurred.
2. 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.

Row Labels	Beginning Account Balance	Contributions	Withdrawals	Interfund Transfers	Interest, Dividends and Appreciation Net of Fees & Chrges	Ending Account Balance (Including Loans)
American Beacon Ahi Managed Futures Strategy Fund A Class	657,917	3,267	(59,647)	8,836	10,390	620,762
Blackrock Tactical Opportunities Fund Class K Shares	226,459	1,275	(20,119)	2,643	4,245	214,503
Blackrock Total Factor Fund Institutional Shares	62,075	357	-	(2,852)	3,630	63,208
Columbia Contrarian Core Fund Institutional 3 Class	1,913,766	11,182	(167,515)	(132,515)	118,973	1,743,891
Delaware Small Cap Core Fund Class R6	660,260	3,835	(59,405)	(9,134)	53,965	649,521
Dfa Large Cap International Portfolio Institutional Class	1,167,668	7,313	(101,422)	(37,488)	54,683	1,090,754
Dodge & Cox Income Fund Class I	2,211,775	11,390	(197,551)	109,721	7,456	2,142,790
Dodge & Cox International Stock Fund Class I	277,256	1,716	(20,391)	(13,967)	18,898	263,512
Dodge & Cox Stock Fund Class I	969,622	6,096	(80,493)	(22,592)	63,491	936,125
Doubleline Core Fixed Income Fund Class R6	2,287,642	11,681	(216,290)	136,811	(2,513)	2,217,331
Emerald Growth Fund Institutional Class	422,866	2,683	(41,031)	(18,609)	32,376	398,285
Guaranteed Income Fund	1,677,720	8,551	(158,217)	82,298	4,504	1,614,856
Harbor Capital Appreciation Fund Retirement Class	838,308	5,080	(64,917)	(99,900)	54,380	732,951
Mfs International Growth Fund Class R6	277,599	1,716	(20,283)	(9,396)	10,306	259,942
Nuveen Real Estate Securities Fund Class R6	718,252	3,948	(58,876)	380	32,966	696,671
Pgim Total Return Bond Fund -class R6	2,167,831	11,001	(197,438)	119,095	3,493	2,103,982
Pimco Income Fund Institutional Class	222,090	1,275	(19,910)	9,496	2,237	215,188
Pimco Rae Us Fund Institutional Class	945,907	6,096	(79,074)	(749)	59,024	931,204
The Merger Fund Class I	218,188	1,275	(19,643)	13,848	1,482	215,150
Undiscovered Managers Behavioral Value Fund Class R6	397,060	2,683	(39,001)	(822)	27,676	387,596
Vanguard Emerging Markets Stock Index Fund Admiral Shares	495,178	3,315	(39,671)	(1,504)	20,717	478,035
Vanguard Growth And Income Fund Admiral Shares	1,931,952	11,343	(184,998)	(92,568)	129,830	1,795,558
Vanguard Growth Index Fund Admiral Shares	867,843	5,178	(63,807)	(81,571)	57,527	785,170
Vanguard Long-term Investment-grade Fund Admiral Shares	777,796	3,929	(78,718)	45,103	8,814	756,923
Vanguard Mid-cap Index Fund Admiral Shares	223,260	1,275	(19,919)	(4,564)	17,690	217,741
Grand Total	22,616,289	127,459	(2,008,336)	0	796,240	21,531,652

**Nieves Landscape Inc.
Contract Summary**

Location	Service Frequency	Cost
Water Recycling Plant		
Weekly Maintenance	Weekly	\$9,189
Clean-up Services	3 Times / Year	\$13,684
Effluent Holding Pond		
Weekly Maintenance	Weekly	\$5,571
Clean-up Services	2 Times / Year	\$38,655
Main Office Campus		
Weekly Maintenance	Weekly	\$15,793
Demonstration Gardens		
Weekly Maintenance	Weekly	\$7,868
Shenandoah Pump Station		
Weekly Maintenance	Weekly	\$7,122
Filter Plant Site & Cell Sites		
Weekly Maintenance	Weekly	\$6,295
Clean-up Services	2 Times / Year	\$7,731
Cherry Booster Station		
Weekly Maintenance	Weekly	\$7,122
R-5 Reservoir		
Clean-up Services	2 Times / Year	\$1,303
R-6 Reservoir		
Clean-up Services	2 Times / Year	\$14,081
P-3 Pump Station		
Clean-up Services	4 Times / Year	\$2,606
P-4 Pump Station		
Clean-up Services	4 Times / Year	\$1,590
P-1 Pump Station		
Clean-up Services	4 Times / Year	\$3,159
Bonds/Insurance		\$4,797
Total		\$146,566



STAFF REPORT

To: BOARD OF DIRECTORS

Meeting Date: July 24, 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. Staff will require further report writing and data extraction training to better use Springbrook.
- The modules that still need to be implemented include Utility Billing, online credit card processing, and Fixed Assets.
- Springbrook utility billing module implementation is scheduled to begin on August 28. The District finance staff met with Springbrook System's implementation team on June 9th via zoom to discuss the utility billing implementation and the availability of Springbrook consultants. The implementation team (The District and Springbrook) concluded after discussions that it is best to start the process from the beginning as the data previously tested is no longer valid due to various delays. Tentatively the utility billing module implementation will start on August 28th and it will take between three and five months to fully implement the module.

The revised implementation schedule is as follow:

Springbrook Utility Billing Project Schedule as of 6/30/2023:

Week/Day	System	Description	Complete
6/09	Utility Billing	Utility billing discovery session begins	Scheduled
8/18	Utility Billing	Utility billing data transmitted to Springbrook	Scheduled
8/25 to 10/1	Utility Billing	Springbrook works on Data Mapping from CUSI	Scheduled
8/25 to 10/1	Utility Billing	Initial data conversion and load	Scheduled
October	Utility Billing	Initial Data Review	Scheduled
October	Utility Billing	Setup and Configuration Sessions	Scheduled
October	Utility Billing	Continued Configuration Session	Scheduled
November	Utility Billing	Parallel Billing Session	Scheduled
December	Utility Billing	Parallel Billing Session	Scheduled

December	Utility Billing	Additional Implementation and Setups	
December	Utility Billing	2 nd Parallel Billing Session	
December	Utility Billing	Final testing for Go Live	
December	Utility Billing	Go Live with Utility Billing	

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.