



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

**UNION SANITARY DISTRICT BOARD MEETING/
UNION SANITARY DISTRICT FINANCING AUTHORITY
AGENDA**

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

**Monday, May 22, 2023
Regular Meeting - 4:00 P.M.**

Karen W. Murphy
Attorney

**Union Sanitary District
Administration Building
5072 Benson Road
Union City, CA 94587**

- | | | |
|-------------|-----|--|
| | 1. | Call to Order. |
| | 2. | Salute to the Flag. |
| | 3. | Roll Call. |
| Motion | 4. | Approve Minutes of the Union Sanitary District Board Meeting of May 8, 2023. |
| Motion | 5. | Approve Minutes of the Union Sanitary District Special Board Meeting of May 9, 2023. |
| Information | 6. | April 2023 Monthly Operations Report <i>(to be reviewed by the Budget & Finance and Legal/Community Affairs Committees)</i> . |
| | 7. | Written Communications. |
| | 8. | Public Comment.
Public Comment is limited to three minutes per individual, with a maximum of 30 minutes per subject. If the comment relates to an agenda item, the speaker should address the Board at the time the item is considered. Speaker cards will be available in the Boardroom and are requested to be completed prior to the start of the meeting. |
| Motion | 9. | Select Boardmembers to Represent Union Sanitary District on External Committees for Fiscal Year 2024. |
| Motion | 10. | Review and Consider Approval of Lab Director Position Description and Revision to Salary Range <i>(to be reviewed by the Personnel Committee)</i> . |
| Motion | 11. | Consent to the Subcontractor Substitution of National Glass Systems with Alumawall, Inc. and AAC Glass Inc. as Requested by Zovich Construction for the Enhanced Treatment and Site Upgrade Program Phase 1A Campus Building Project <i>(to be reviewed by the Engineering and Information Technology Committee)</i> . |
| Direction | 12. | Proposed Operating and CIP Budget for Fiscal Year 2024 <i>(to be reviewed by the Budget & Finance Committee)</i> . |

- Information 13. Board of Directors Internal Committee Assignments 2023-2024.
-
- Information 14. Status of Priority 1 Capital Improvement Program Projects *(to be reviewed by the Engineering and Information Technology Committee)*.
-
- Information 15. Third Quarterly Report on the Capital Improvement Program for Fiscal Year 2023 *(to be reviewed by the Engineering and Information Technology Committee)*.
-
- Information 16. Third Quarterly Report on the Enhanced Treatment and Site Upgrade Program for Fiscal Year 2023 *(to be reviewed by the Engineering and Information Technology Committee)*.
-
- Information 17. Report on the East Bay Dischargers Authority Meeting of April 20, 2023.
-
- Information 18. Check Register.
-
- Information 19. Committee Meeting Reports. *(No Board action is taken at Committee meetings)*:
- a. Budget & Finance Committee – Thursday, May 18, 2023, at 10:30 a.m.
 - Director Kite and Director Toy
 - b. Engineering and Information Technology Committee – Thursday, May 18, 2023, at 11:30 a.m.
 - Director Handley and Director Lathi
 - c. Personnel Committee – Friday, May 19, 2023, at 10:00 a.m.
 - Director Fernandez and Director Toy
 - d. Legal/Community Affairs Committee – Friday, May 19, 2023, at 10:30 a.m.
 - Director Kite and Director Lathi
 - e. Investment & Portfolio Ad Hoc – will not meet.
 - f. Legislative Committee – will not meet.
-
- Information 20. General Manager’s Report. *(Information on recent issues of interest to the Board)*.
-
21. Other Business:
- a. Comments and questions. *Directors can share information relating to District business and are welcome to request information from staff.*
 - b. Scheduling matters for future consideration.
-
22. Adjournment – The Board will adjourn to the FOG (Fats, Oils, and Grease) Advertisement Board Workshop to be held in the Boardroom on May 23, 2023, at 4:00 p.m.
-
23. Adjournment – The Board will then adjourn to the next Regular Board Meeting to be held in the Boardroom on Monday, June 12, 2023, at 4:00 p.m.
-

The facilities at the District Offices are wheelchair accessible. Any attendee requiring special accommodations at the meeting should contact the General Manager’s office at (510) 477-7503 at least 24 hours in advance of the meeting.



USD TREAT
PROTECT
PRESERVE
est.1918
TRI-CITY WASTEWATER

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

BUDGET & FINANCE COMMITTEE MEETING
Committee Members: Director Kite and Director Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

AGENDA
Thursday, May 18, 2023
10:30 A.M.

Karen W. Murphy
Attorney

Alvarado Conference Room
5072 Benson Road
Union City, CA 94587

**THIS MEETING WILL BE TELECONFERENCED WITH DIRECTOR KITE FROM THE EXTERIOR
OF 35040 NEWARK BOULEVARD, NEWARK, CALIFORNIA.
THE TELECONFERENCE LOCATION SHALL BE ACCESSIBLE TO THE PUBLIC.**

1. Call to Order

2. Roll Call

3. Public Comment
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 - Alvarado Conference Room
 - Teleconference Location

4. Items to be reviewed for the Regular Board meeting of May 22, 2023:
 - April 2023 Monthly Operations Report – Financial Reports
 - Proposed Operating and CIP Budget for Fiscal Year 2024

5. Adjournment

Items reviewed at committee meetings will be included in the agenda packet for the upcoming Board meeting. No action will be taken at committee meetings.

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Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

**ENGINEERING AND INFORMATION TECHNOLOGY
COMMITTEE MEETING**
Committee Members: Director Handley and Director Lathi

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

AGENDA
Thursday, May 18, 2023
11:30 A.M.

Karen W. Murphy
Attorney

Alvarado Conference Room
5072 Benson Road
Union City, CA 94587

**THIS MEETING WILL BE TELECONFERENCED WITH DIRECTOR LATHI FROM THE GUEST PARKING
AREA LOCATED ON OCASO CAMINO, WEST OF AND CLOSEST TO THE INTERSECTION OF
PASEO PADRE PARKWAY IN FREMONT, CALIFORNIA.
THE TELECONFERENCE LOCATION SHALL BE ACCESSIBLE TO THE PUBLIC.**

1. Call to Order

2. Roll Call

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 - Consent to the Subcontractor Substitution of National Glass Systems with Alumawall, Inc. and AAC Glass Inc. as Requested by Zovich Construction for the Enhanced Treatment and Site Upgrade Program Phase 1A Campus Building Project
 - Status of Priority 1 Capital Improvement Program Projects
 - Third Quarterly Report on the Capital Improvement Program for Fiscal Year 2023
 - Third Quarterly Report on the Enhanced Treatment and Site Upgrade Program for Fiscal Year 2023

5. Adjournment

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Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

PERSONNEL COMMITTEE MEETING
Committee Members: Director Fernandez and Director Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

AGENDA
Friday, May 19, 2023
10:00 A.M.

Karen W. Murphy
Attorney

Alvarado Conference Room
5072 Benson Road
Union City, CA 94587

1. Call to Order

2. Roll Call

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4. Items to be reviewed for the Regular Board meeting of May 22, 2023:
 - Review and Consider Approval of Lab Director Position Description and Revision to Salary Range

5. Adjournment

Items reviewed at committee meetings will be included in the agenda packet for the upcoming Board meeting. No action will be taken at committee meetings.

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Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

LEGAL/COMMUNITY AFFAIRS COMMITTEE MEETING

Committee Members: Director Kite and Director Lathi

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

AGENDA
Friday, May 19, 2023
10:30 A.M.

Karen W. Murphy
Attorney

Alvarado Conference Room
5072 Benson Road
Union City, CA 94587

THIS MEETING WILL BE TELECONFERENCED WITH DIRECTOR KITE FROM THE EXTERIOR OF 35040 NEWARK BOULEVARD, NEWARK, CALIFORNIA. THE TELECONFERENCE LOCATION SHALL BE ACCESSIBLE TO THE PUBLIC.

1. Call to Order

2. Roll Call

3. Public Comment

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- Alvarado Conference Room
 - Teleconference Location
-

4. Items to be reviewed for the Regular Board meeting of May 22, 2023:

- April 2023 Monthly Operations Report – Odor and Work Group Reports
-

5. Adjournment

Items reviewed at committee meetings will be included in the agenda packet for the upcoming Board meeting. No action will be taken at committee meetings.

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**MINUTES OF THE MEETING OF THE
BOARD OF DIRECTORS OF
UNION SANITARY DISTRICT/UNION SANITARY DISTRICT FINANCING
AUTHORITY
May 8, 2023**

CALL TO ORDER

President Lathi called the meeting to order at 4:00 p.m.

SALUTE TO THE FLAG

President Lathi led the salute to the flag.

ROLL CALL

PRESENT: Anjali Lathi, President
Manny Fernandez, Vice President
Jennifer Toy, Secretary
Tom Handley, Director
Pat Kite, Director

STAFF: Paul Eldredge, General Manager/District Engineer
Karen Murphy, District Counsel
Mark Carlson, Business Services Manager/CFO
Armando Lopez, Treatment and Disposal Services Manager
Jose Rodrigues, Collection Services Manager
Raymond Chau, Technical Services Manager
Ric Pipkin, Enhanced Treatment and Site Upgrade Program Manager
Chris Pachmayer, Fabrication, Maintenance, and Construction Coach
Alisa Gordon, Human Resources Manager
Michael Dunning, Environmental Compliance Coach
Tim Grillo, Research and Support Team Coach
Sharon Anderson, Administrative Specialist
Regina McEvoy, Executive Assistant to the General Manager/Board Clerk

VISITORS: Alice Johnson, League of Women Voters
Jack Alcom, Tri-City Voice

**APPROVE MINUTES OF THE UNION SANITARY DISTRICT BOARD MEETING OF
APRIL 24, 2023**

It was moved by Director Lathi, seconded by Director Kite, to Approve the Minutes of the Board Meeting of April 24, 2023. Motion carried unanimously.

APPROVE MINUTES OF THE UNION SANITARY DISTRICT SPECIAL BOARD MEETING OF APRIL 27, 2023

It was moved by Secretary Toy, seconded by Director Kite, to Approve the Minutes of the Special Board Meeting of April 27, 2023. Motion carried unanimously.

WRITTEN COMMUNICATIONS

There were no written communications.

PUBLIC COMMENT

There was no public comment.

SCHEDULING PUBLIC HEARING TO CONSIDER COLLECTION OF SEWER SERVICE CHARGES ON THE TAX ROLL FOR FISCAL YEAR 2024

This item was reviewed by the Legal/Community Affairs Committee. Business Services Manager/CFO Carlson stated staff prepared this item for the Board to consider placing sewer service charges for Fiscal Year 2024 on the tax rolls and set the date for the public hearing to consider authorizing collection. After the Board sets the hearing date, staff will prepare the report to be considered at the public hearing and will publish the required Notice included in the Board meeting packet in the Tri-City Voice and The Argus newspapers. Staff recommended the Board set the time for holding the public hearing to consider collection of sewer service charges on the tax roll for Fiscal Year 2024, at 4:00 p.m. or as soon thereafter as the matter may be heard, on June 26, 2023, to be held in the Boardroom at 5072 Benson Road, Union City California.

It was moved by Vice President Fernandez, seconded by Director Handley, to Set the Time for Holding the Public Hearing to Consider Collection of Sewer Service Charges on the Tax Roll for Fiscal Year 2024, at 4:00 p.m. or as Soon Thereafter as the Matter May be Heard, on June 26, 2023, to be Held in the Boardroom at 5072 Benson Road, Union City, California. Motion carried unanimously.

AWARD THICKENER & DEWATERING POLYMERS CONTRACT TO POLYDYNE INC.

This item was reviewed by the Budget & Finance Committee. Treatment and Disposal Services Manager Lopez stated the District's existing polymer contract with Polydyne is set to expire on June 30, 2023. An Invitation for Bid (IFB) was issued for a new 24-month term from July 1, 2023 through June 30, 2025, with two optional one-year extensions. The bid was for two different types of polymers, emulsion and Mannich. The polymers are used to help smaller sludge particles combine into larger clumps in the centrifuge and gravity belt thickener treatment processes. While staff solicited several vendors, only one bid was received from Polydyne Incorporated and the bid submission met minimum requirements. The Polydyne Inc. bid included a 13.9% increase for emulsion polymer and a 45.7% increase for Mannich polymer. Staff recommended the Board authorize the General Manager to execute a contract for thickener and dewatering polymers with Polydyne Inc., for an initial period of two years with two optional one-year extensions for a possible total of four years.

The Board directed staff to include price percentage increases in future Board items.

It was moved by Secretary Toy, seconded by Director Kite, to Authorize the General Manager to Execute a Contract for Thickener and Dewatering Polymers with Polydyne Inc., for an Initial Period of Two Years with Two Optional One-Year Extensions for a Possible Total of Four Years. Motion carried unanimously.

AWARD THE CONTRACT FOR THE PURCHASE OF PROGRAMMABLE LOGIC CONTROLLERS TO BUCKLES-SMITH FOR THE PLC REPLACEMENT PROJECT

This item was reviewed by the Engineering and Information Technology Committee. Technical Services Manager Chau stated the purpose of the Project will be to replace various aging programmable logic controller (PLC) processor modules located at the District's treatment plant and remote pump/lift stations. Existing processors will be replaced with newer Allen-Bradley 1756-L82E ControlLogix controllers to improve their reliability and network security. The Project will also include purchase of one spare 1756-L82E processor module. Staff will perform PLC processor module replacements in-house with the first processors scheduled to be delivered in August 2023; replacement of all 22 PLC processor modules is scheduled to be completed by Spring 2024. Staff recommended the Board award the contract for the purchase of 23 Allen-Bradley ControlLogix Programmable Logic Controllers in the amount of \$221,779.63 to Buckles-Smith for the PLC Replacement Project.

It was moved by Vice President Fernandez, seconded by Director Handley, to Award the Contract for the Purchase of 23 Allen-Bradley ControlLogix Programmable Logic Controllers in the Amount of \$221,779.63 to Buckles-Smith for the PLC Replacement Project. Motion carried unanimously.

ELECTION OF OFFICERS FOR THE BOARD OF DIRECTORS

General Manager Eldredge stated Policy No. 3070, Boardmember Officers and Committee Membership, states the Board shall annually elect by majority vote the President, Vice President, and Secretary. Staff recommended the Board appoint and elect by motion the officers to serve as President, Vice President, and Secretary, in accordance with District Policy No. 3070.

It was moved by Director Kite, seconded by Director Handley, to Elect Director Fernandez to Serve as President, Director Toy to Serve as Vice President, and Director Handley to Serve as Secretary for Approximately One-Year Terms. Motion carried unanimously.

INFORMATION ITEMS:

Certificates of Merit to Union Sanitary District's Class I Permitted Industries

This item was reviewed by the Legal/Community Affairs Committee. Environmental Compliance Coach Dunning stated the District's Environmental Compliance team will recognize industries that have exceeded the requirements of their wastewater discharge permits during the prior calendar year and have demonstrated continued commitment to protecting the environment at the Certificate of Merit event to be held at 3:00 p.m. on May 25, 2023. The District has invited representatives from 24 Significant Industrial Users with Class I Wastewater Discharge Permits to receive Certificates of Merit. A

congratulatory notice listing the awardees will be published in the Tri-City Voice and The Argus newspapers the week of May 15, 2023.

Check Register

There were no questions regarding the check register.

COMMITTEE MEETING REPORTS:

The Budget & Finance, Engineering and Information Technology, and Legal/Community Affairs Committees met.

GENERAL MANAGER'S REPORT:

- General Manager Eldredge noted COVID updates will be included in the General Manager's Report going forward.
- General Manager Eldredge stated information provided to the Board via email pertaining to topics discussed at a Board meeting will be included in future Board packets.
- General Manager Eldredge will be out of the office the week of June 5, 2023.
- General Manager Eldredge noted the topic of discussion for the Board workshop to be held May 9, 2023, had changed from Fats, Oils, and Grease (FOG) Advertisement to Enhanced Treatment and Site Upgrade Campus Interior Materials and Finishes.

OTHER BUSINESS:

There was no other business.

ADJOURNMENT:

The meeting was adjourned at 4:17 p.m. to a Board Workshop to be held in the Boardroom on Tuesday, May 9, 2023, at 4:00 p.m.

SUBMITTED:

ATTEST:

REGINA McEVOY
BOARD CLERK

TOM HANDLEY
SECRETARY

APPROVED:

MANNY FERNANDEZ
PRESIDENT

Adopted this 22nd day of May 2023

**MINUTES OF THE SPECIAL MEETING OF THE
BOARD OF DIRECTORS OF
UNION SANITARY DISTRICT
May 9, 2023**

CALL TO ORDER

President Lathi called the special meeting to order at 4:00 p.m.

ROLL CALL

PRESENT: Manny Fernandez, President
Jennifer Toy, Vice President
Tom Handley, Secretary
Pat Kite, Director
Anjali Lathi, Director

STAFF: Paul Eldredge, General Manager/District Engineer
Raymond Chau, Technical Services Manager
Ric Pipkin, Enhanced Treatment and Site Upgrade Program Manager
Gus Carrillo, Enhanced Treatment and Site Upgrade Program Coordinator
Regina McEvoy, Executive Assistant to the General Manager/Board Clerk

VISITORS: Karen Burks, Burks Toma Architects
Nancy L. Malone, Siegel & Strain Architects
Marc Solomon, Hazen and Sawyer
Alice Johnson, League of Women Voters

PUBLIC COMMENT

There was no public comment.

BOARD WORKSHOP

General Manager Eldredge and Enhanced Treatment and Site Upgrade (ETSU) Program Manager Pipkin introduced Karen Burks, Burks Toma Architects, and Nancy L. Malone, Siegel & Strain Architects, who presented ETSU Campus Interior Materials and Finishes.

ADJOURNMENT:

The special meeting was adjourned at approximately 4:50 p.m. to the next Regular Board Meeting to be held in the Boardroom on Monday, May 22, 2023, at 4:00 p.m.

SUBMITTED:

ATTEST:

REGINA McEVOY
BOARD CLERK

TOM HANDLEY
SECRETARY

APPROVED:

MANNY FERNANDEZ
PRESIDENT

17 of 188

Adopted this 22nd day of May, 2023



Union Sanitary District

Monthly Operations Report

April 2023



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2023 MONTHLY OPERATIONS REPORT

The October 2023 Monthly Operations Reports highlights the District's performance in the following areas:

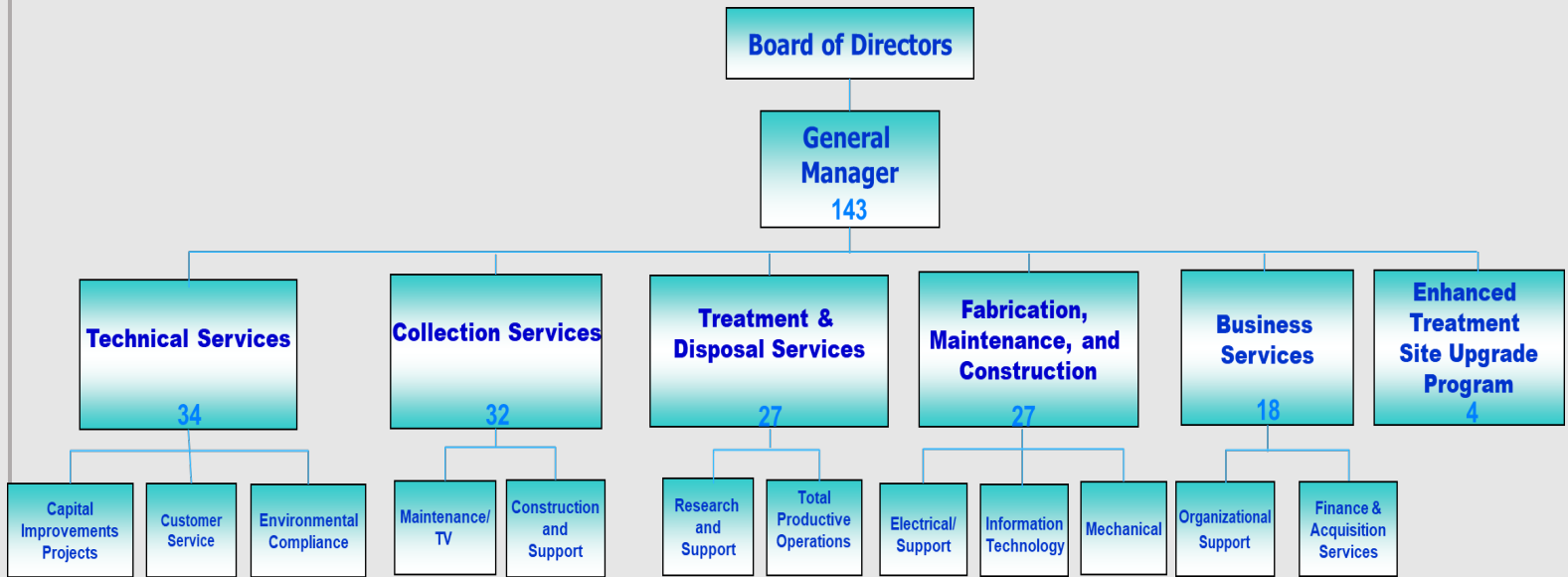
- **Organizational Overview**
- **Financial Reports**
 - Budget and Finance Report
 - Investment Portfolio
 - Portfolio Holdings by Asset Class and by Maturity Range
- **Customer Relations**
 - Odor Investigations and Response
 - Service Request and Response
 - Communication and Outreach
- **Plant Operations**
- **Maintenance Report**
 - Collection System
 - Plant and Pump Stations
 - Information Technology
- **Capital Improvement Projects (CIP) Report**
 - Current Construction Projects
 - Studies and Designs
- **Permitting and Inspections**
- **Staffing and Personnel**



Organizational Overview

2023 MONTHLY OPERATIONS REPORT

Union Sanitary District operates a 33-acre wastewater treatment facility in Union City and provides collection, treatment, and disposal services to a total population of over 356,000 in Fremont, Newark and Union City, California. The District maintains over 839 miles of underground pipeline in its service area.



Executive Team

Paul Eldredge	General Manager/District Engineer	Oversees District operations and liaison to the Board of Directors
Mark Carlson	Business Services/CFO	Includes Finance, Purchasing, Human Resources, and Safety
Jose Rodrigues	Collection Services	Maintains, and repairs the sewer lines and manholes throughout the service area
Raymond Chau	Technical Services	Permits and inspections, pretreatment program, and capital improvements
Armando Lopez	Treatment and Disposal Services	Operates the treatment plant, process and analyze wastewater samples
Robert Simonich	Fabrication, Maintenance, and Construction	Information technology, equipment installation, service, repair for the plant and pump stations



Financial Report

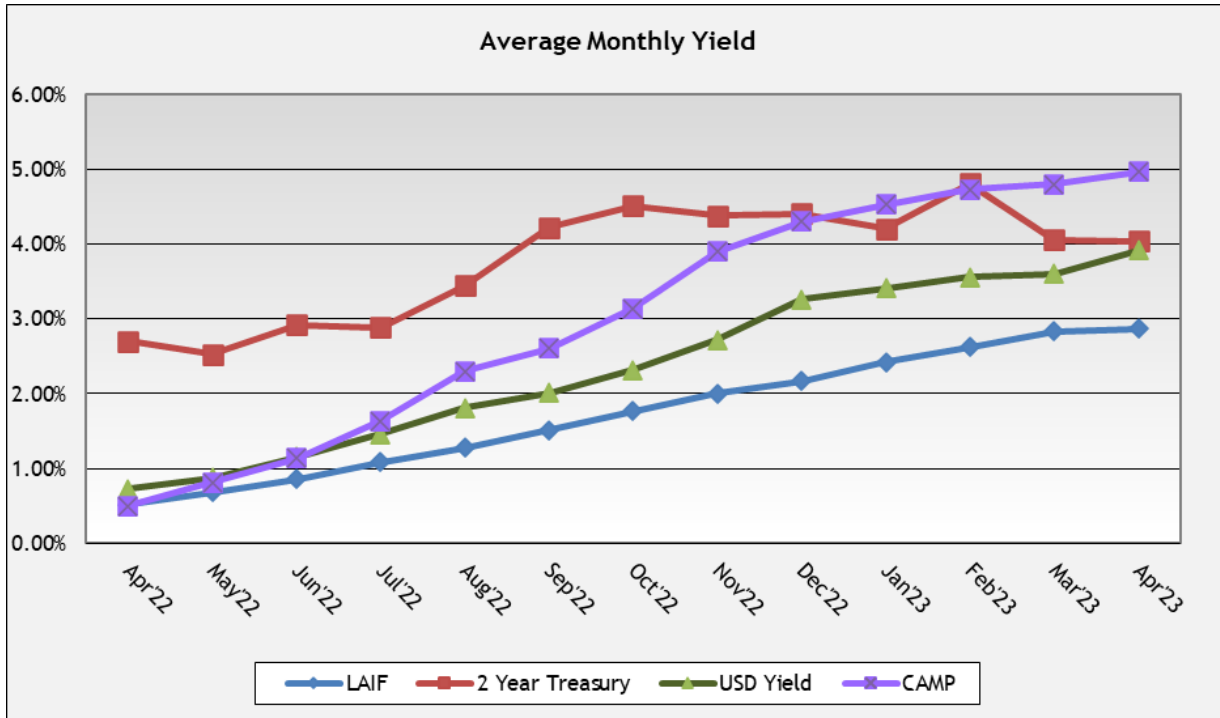
2023 MONTHLY OPERATIONS REPORT

Total Revenues and Expenditures

FY 2023	Year-to-date as of 4/30/23		83% of year elapsed	Audited Last Year Actuals 6/30/22
Revenues				
	Budget	Actual	% of Budget Rec'd	
Capacity Fees	\$ 7,467,000	\$ 5,039,851	67%	\$ 11,145,152
Sewer Service Charges	76,965,000	74,166,386	96%	73,822,317
Operating (Includes work groups and fund 85)	1,234,500	1,043,729	85%	1,307,546
Interest	1,385,000	4,291,140	310%	1,122,856
Misc. (Annex fees, forfeited deposits)	-	642,603	0%	1,607,370
Subtotal Revenues	\$ 87,051,500	\$ 85,183,709	98%	\$ 89,005,242
Bond Proceeds	-	-	0.0%	110,317,768
Total Revenues + Bond Proceeds	\$ 87,051,500	\$ 85,183,709	98%	\$ 199,323,010
Expenses				
	Budget	Actual	% of Budget Used	Audited Last Year Actuals 6/30/22
Capital Improvement Program:				
Capacity Proj.	\$ 15,624,000	\$ 5,365,331	34%	\$ 11,721,479
Renewal & Repl. Proj.	53,206,200	31,732,658	60%	14,840,229
Operating (includes fund 85)	50,509,850	38,719,557	77%	41,198,447
Special Projects	3,238,000	695,343	21%	1,002,174
Retiree Medical (ADC)	1,400,000	1,315,335	94%	- 27,870
115 Pension Trust	3,000,000	-	0%	3,000,000
Vehicle & Equipment	171,000	176,662	103%	-
Information Systems	1,207,500	381,724	32%	356,115
Plant & Pump Stat. R&R	400,000	206,494	52%	327,272
Emerg. Fund	-	-	0%	-
Cty Fee for SSC Admin.	113,000	112,512	100%	111,726
Debt Servicing:				
SRF Loans	-	-	0%	7,982
Bonds	9,017,480	9,693,038	107%	7,478,302
WIFIA	-	17,000	0%	363,040
Total Expenses	\$ 137,887,030	\$ 88,415,652	64%	\$ 80,378,897
Total Revenue & Proceeds less Expenses	\$ (50,835,530)	\$ (3,231,943)		118,944,113

Investment Portfolio

Performance Measures for the USD Investment Portfolio



	Dec'22	Jan'23	Feb'23	Mar'23	Apr'23
LAIF	2.17%	2.43%	2.62%	2.83%	2.87%
2 Year Treasury	4.41%	4.21%	4.81%	4.06%	4.04%
USD Yield	3.26%	3.42%	3.56%	3.60%	3.91%
CAMP	4.30%	4.53%	4.73%	4.80%	4.97%

LAIF: Local Agency Investment Fund Yield

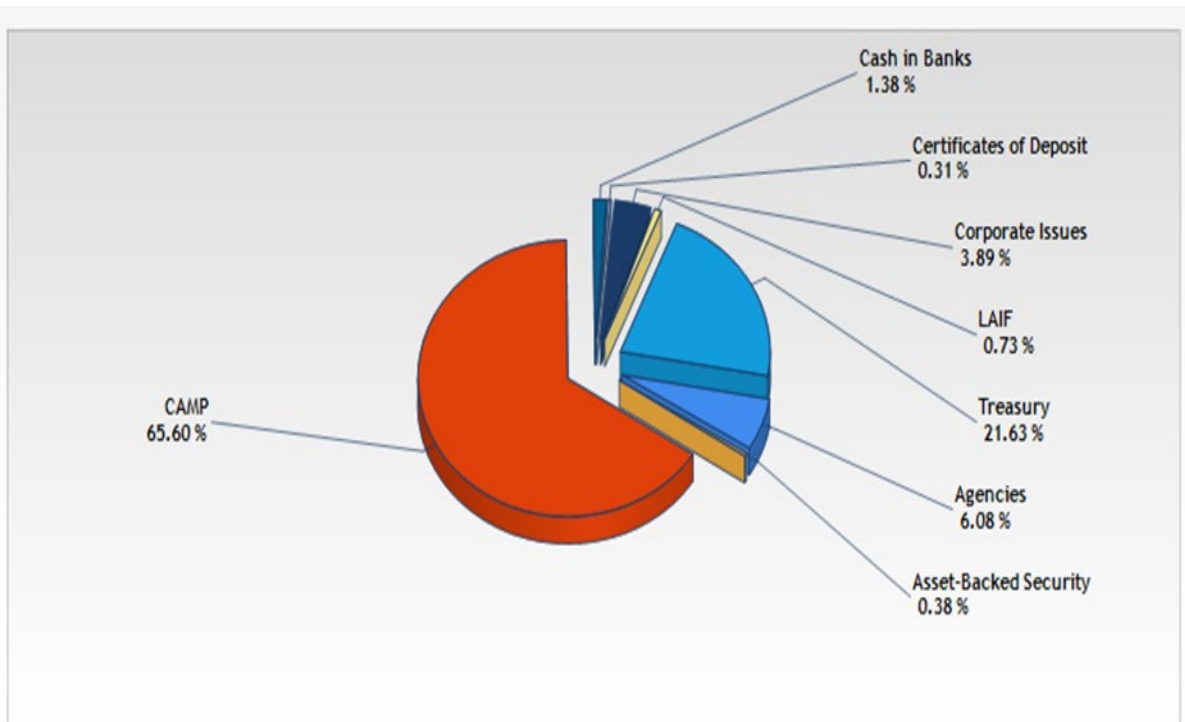
2 Year Treasury: Yield for investing in 2-Year U.S. Treasury security

USD Yield: Summarizes USD portfolio's yield

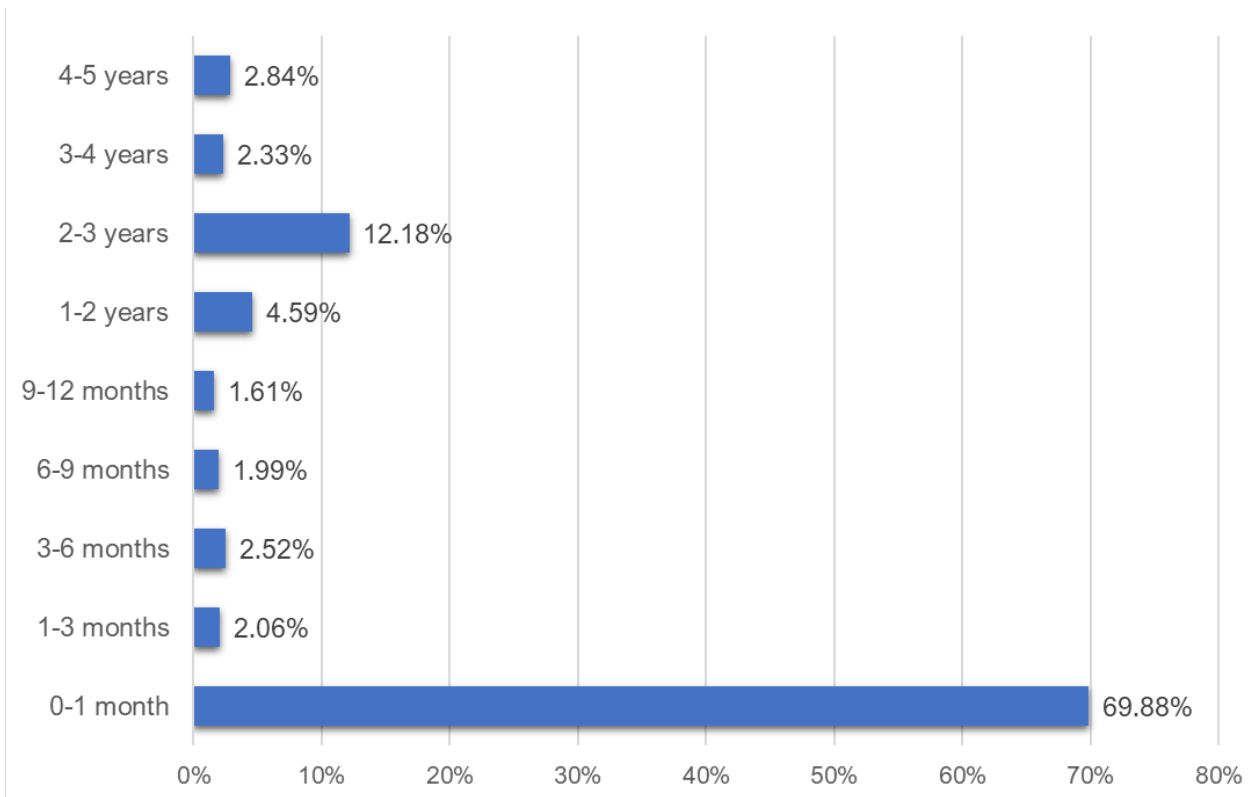
CAMP: California Asset Management Program Yield

Portfolio Holdings by Asset Class and by Maturity Range

Portfolio Holdings Distribution by Asset Class



Portfolio Holdings Distribution by Maturity Range



Union Sanitary District Odor Map and Report

During the recording period between April 1, 2023 through April 30, 2023, there were 5 odor related service request(s) received by the District.

City	Fremont		
District Related:	No	Date/Time:	4/3/2023 10:14AM
Location:	SUNSTAR CM	Reported by:	Ting
Weather/Temp:	Windy / 46°F	Wind:	North West / 8 mph

Response and Follow-up:

Caller reported a foul odor that they believed was coming from either the sewer system or a dead animal underneath their house. USD staff responded to the location. No odor was detected upon arrival. Staff checked the upstream and downstream manholes, storm drains, and surrounding area. No odor causing or unsanitary conditions were observed.

Findings were reported back to the homeowner. Homeowner shared that they believe a skunk may have died under the lateral outside their home. They were not having any issues of backups or smells inside the home.

City	Fremont		
District Related:	No	Date/Time:	4/10/2023 9:00AM
Location:	SUNSTAR CM	Reported by:	Ting
Weather/Temp:	Sunny/ 58°F	Wind:	North/ 4 mph

Response and Follow-up:

Caller reported a strong odor inside and outside their home. A Trouble Call Inspector was dispatched to the location a week prior. No odor was found at the initial visit and the inspector was unable to determine the source of the odor during that visit, as no issues were found with the sewer system.

At the second visit, the inspector checked the USD sewer main, manholes AA10050 AA10052; flow was normal. No signs of backups or stoppages that could cause an odor. The inspector did detect a strong skunk smell on the right side of home, coming from the neighbor's yard. An attempt was made to contact the neighbor with no response. The odor was determined not to be related to the sewer system. Findings were shared with the initial caller and a USD Sewer Lateral Brochure was provided.

Union Sanitary District Odor Map and Report

City	Fremont		
District Related:	No	Date/Time:	4/10/2023 12:04PM
Location:	LIBERTY ST	Reported by:	Reanna Pineda
Weather/Temp:	Sunny/ 66°F	Wind:	North / 9 mph

Response and Follow-up:

Caller reported an odor from inside one of the treatment rooms at a commercial location. A USD Trouble Call Inspector responded to the location and noted there was no visual evidence of unsanitary or odor causing conditions outside the facility. The inspector checked the upstream and downstream manholes and there was no backup or odors found with the USD sewer system. Reported findings to caller and shared information on lateral responsibility.

City	Union City		
District Related:	No	Date/Time:	4/12/2023 10:21AM
Location:	ALVARADO-NILES RD	Reported by:	Adrian
Weather/Temp:	Sunny / 55°F	Wind:	North West / 11 mph

Response and Follow-up:

An odor complaint call came in from a staff member at the Pacifica Senior Living Facility. USD staff responded to the location and noted that there was no odor present nor visual evidence outside the facility of any odor causing conditions. The surrounding manholes and storm drain inlets were checked and flow was normal with no signs of backup. Inside the facility, there was an odor in one room on the second floor. It was determined that the source of the odor was not related to the sewer system but could be an issue with the lateral or internal plumbing system. The inspector made note that there were several trees in front of the property near the location of the clean out. Discussed the findings with staff (Adrian) and provided USD's Sewer Lateral Brochure.

City	Fremont		
District Related:	No	Date/Time:	4/25/2023 3:43PM
Location:	MARIE CT	Reported by:	Vinaj Naik
Weather/Temp:	Clear / 66°F	Wind:	North / 7 mph

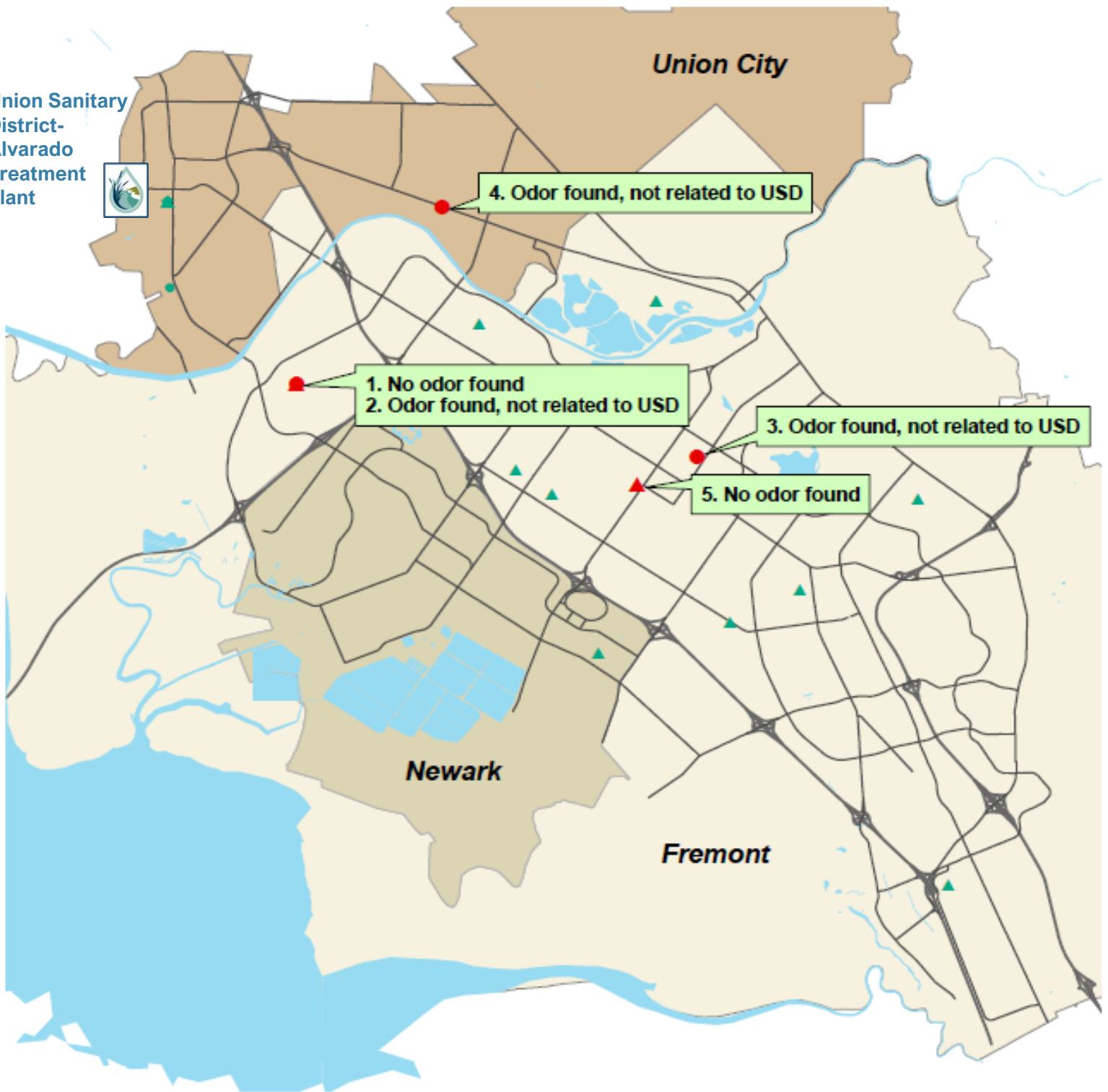
Response and Follow-up:

Caller reported having issues with an odor coming from his bathroom since their was lateral repaired a couple weeks ago. A Trouble Call inspector reported to the location. Upon arrival, no odor was detected on the exterior of the home, nor was there any visual evidence of odor causing conditions on the exterior. The nearby sewer main and storm drain inlets were checked. Flow was observed as normal and no blockages were reported.

Findings were shared with the homeowner who shared that the odor is only present immediately after taking a shower. Provided them with the USD Traps & Vents Brochure.

Union Sanitary District Odor Map and Report

Union Sanitary District-
Alvarado
Treatment
Plant



Legend

Odor Complaints: April 2023

- ★ Odor found, USD resolved (0)
- Odor found, not related to USD (3)
- ▲ No odor found (2)

Odor Complaints: May, 2022 to Mar. 2023

- ★ Odor found, USD resolved (1)
- Odor found, not related to USD (7)
- ▲ No odor found (20)

Location of Odor Reports May 2022 to April 2023





Customer Relations

2023 MONTHLY OPERATIONS REPORT

Customer Service Response

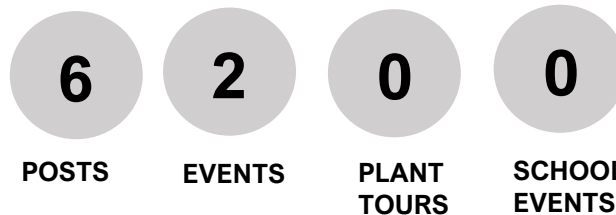
Front Desk Trouble Calls

Service calls that require immediate attention to support customer needs. Dispatched from the Front Desk during business hours.

Total Calls	Fremont	Newark	Union City	Total
Apr-23	13	0	2	15
Mar-23	14	5	1	20
Feb-23	9	2	2	13
Jan-23	15	3	2	20
Dec-22	10	1	0	11
Nov-22	12	5	3	20
6 Month Total				99
Apr-22	11	0	0	11

Communication and Outreach

Includes participation in local events, social media communication, plant tours, and school outreach events.



Social Media Posts:

- Wipes Clog Pipes
- CASA Scholarship info
- Earth Day event Fremont
- Accounting & Engineer recruitments
- Quality Assurance Chemist recruitment
- Take cars to a commercial car wash

Events:

- Earth Day (Give away estimates: 500 tote bags, 400 grease scrapers, 470 rulers, 200 erasers. We exchanged 13 mercury thermometers for digital ones)
- Attended Newark "State of the City" Event 4/27

Other Activities:



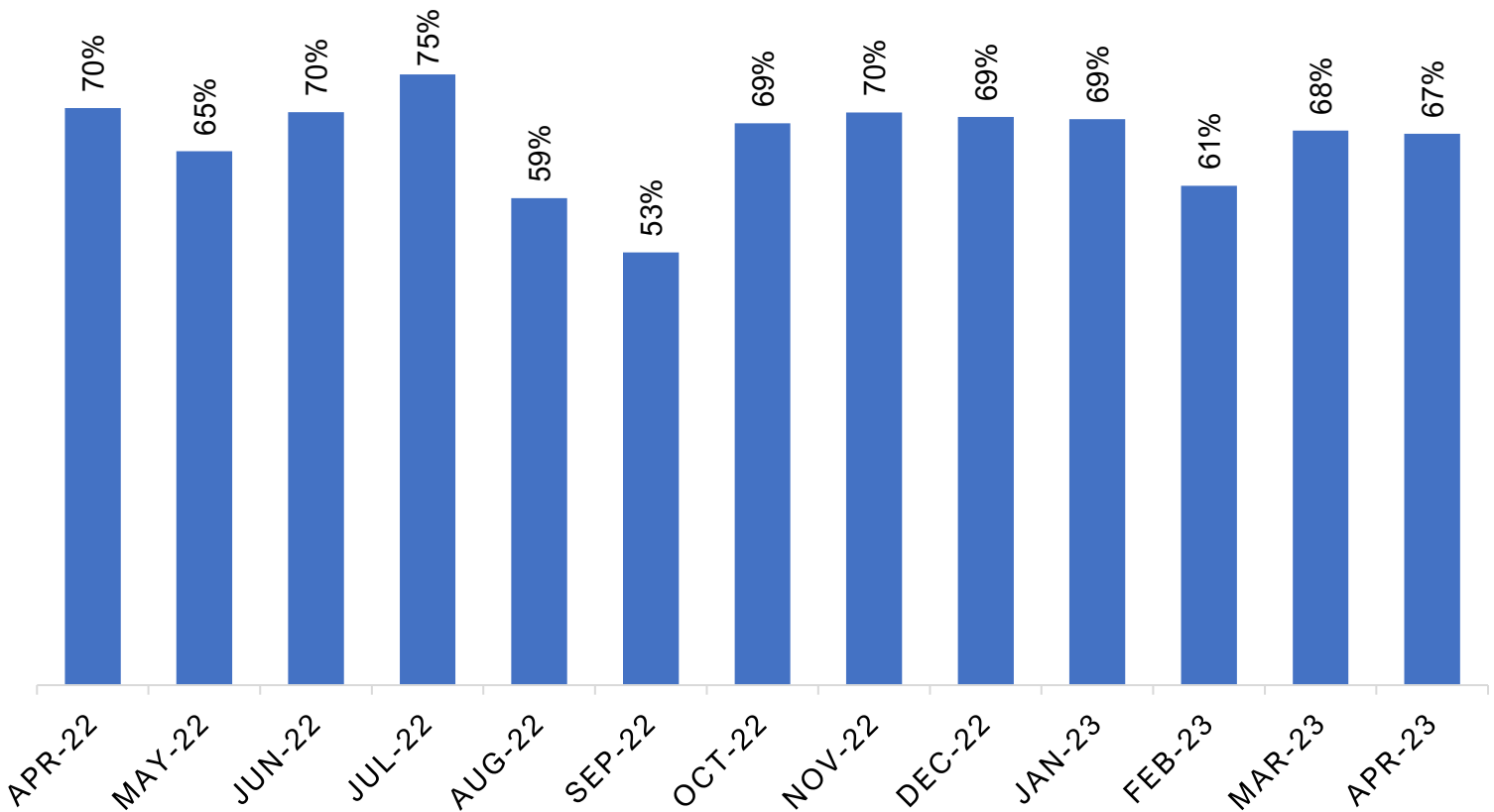
Plant Operations

2023 MONTHLY OPERATIONS REPORT

Cogeneration Engines at USD's Wastewater Treatment Plant

The chart below shows the percentage of Plant power usage generated by the District's cogeneration (cogen) engines monthly. The engines use biogas produced by the wastewater treatment process as the primary fuel to generate the majority of the plant's power needs, reducing operating costs.

Cogen Power Produced (% of total Plant load)



Mechanics working on the cogeneration engine



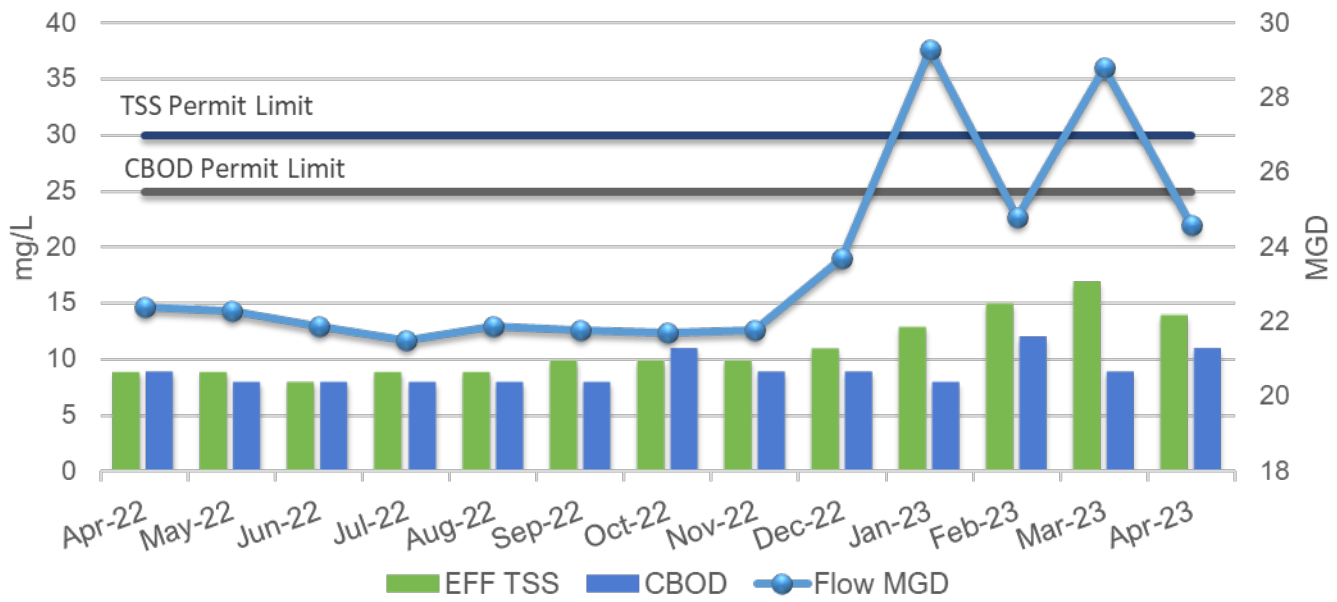
Plant Operations

2023 MONTHLY OPERATIONS REPORT

Lab Monitoring Results

USD's laboratory staff process over 6,200 samples and perform about 17,000 analyses every year to ensure discharges from the plant meet necessary standards.

Lab Results and Effluent Flow



EFF SS: Effluent Suspended Solids

CBOD: Carbonaceous Biochemical Oxygen Demand

MGD: Million Gallons per Day

USD's Final Effluent Monthly Monitoring Results

Parameter	Permit Limit	Feb-23	Mar-23	Apr-23
Copper, µg/l	53	6.4	5.6	5.6
Mercury, µg/l	0.066	0.0043	NA	NA
Cyanide, µg/l	20	1.1	ND 0.9	ND 0.9
Ammonia- N, mg/L (Range)	86	42 - 45	31 - 45	33 - 44
Fecal Coliform, MPN/100ml (Range)				
• 5-Day Geometric Mean	500	51 - 59	47 - 70	47 - 72
• 11-Sample 90th Percentile	1100	79 - 89	78 - 86	89 - 93
Enterococci				
• 6-Week Geometric Mean	280	79.4	52	70

E = Estimated Value, concentration outside Calibration Range. ND = Not Detected, result is below Detection Limit.

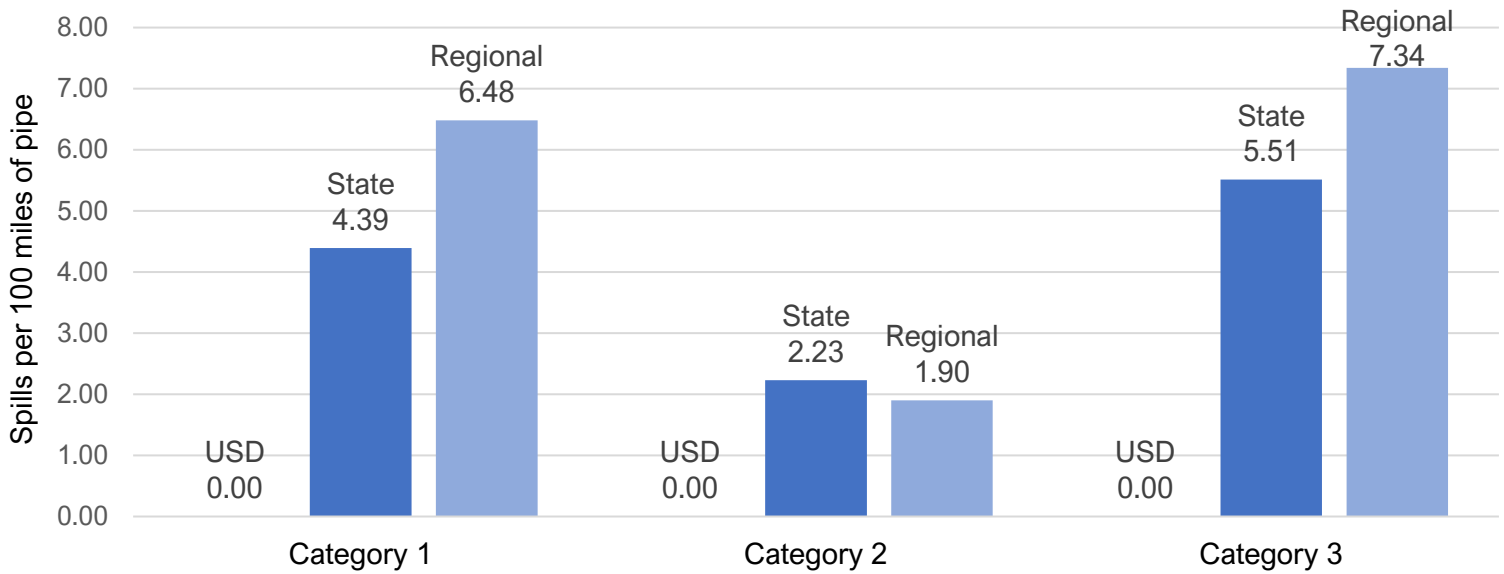


Maintenance Report

2023 MONTHLY OPERATIONS REPORT

Collection System Performance Report

Average Spills per 100 Miles of Sewer Over the Last 12 Months
USD vs. Regional vs. State



Definition of Spill Categories

- Category 1: 1,000 gallons or more. Discharges to surface water, not fully captured.
- Category 2: 1,000 gallons or more. Does not reach surface water, not fully captured.
- Category 3: 1,000 gallons or less. Does not reach surface water, fully captured.

Collection System Maintenance Work Completed

The Collection Services Workgroup maintains over 839 miles of gravity sewer through cleaning and televised inspection. They also service 63 District vehicles and maintain 3 buildings. Maintenance of equipment is completed by staff through sewer line repairs and work orders.

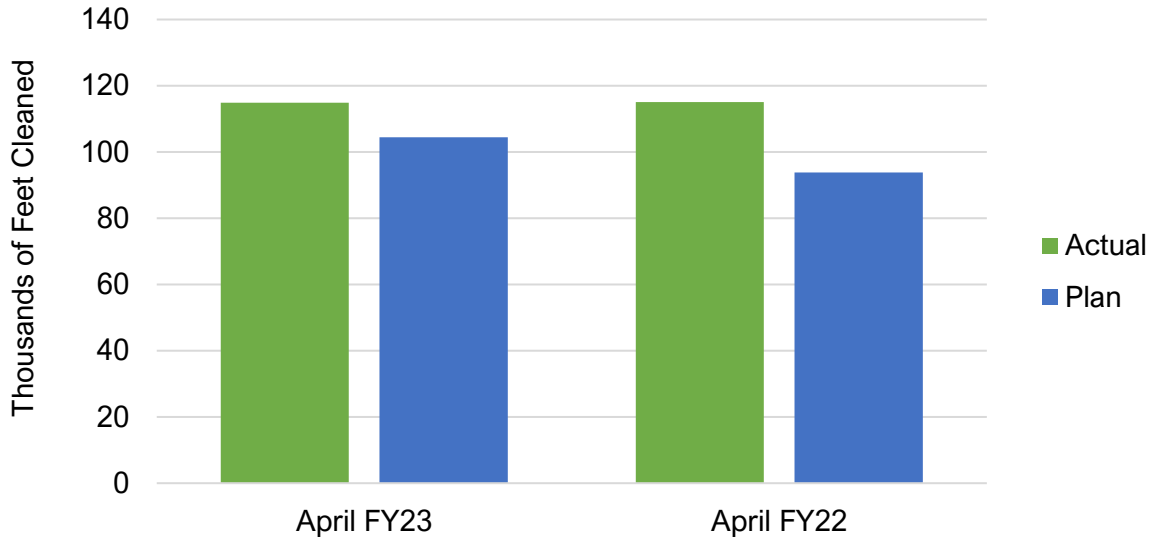
	This Month	Fiscal Year to Date	Historical Monthly Average
Sewer Line Repairs - # of Open Trench	0	0	2
Sewer Line Repairs - # of Trenchless	22	179	14
Work Orders Completed on Vehicles and Buildings	204	2065	171



Maintenance Report

2023 MONTHLY OPERATIONS REPORT

Sewer Line Cleaning



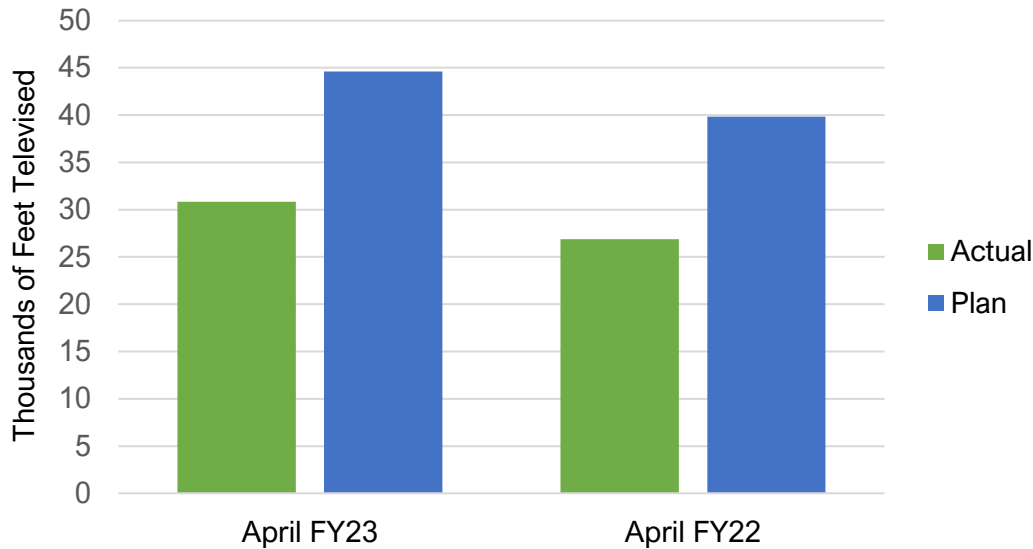
Cleaning Cost per Foot=\$0.81									
Description	FY23 Q1 Footage	FY23 Q2 Footage	Mar-23 Footage	FY23 Q3 Footage	Apr-23 Footage	FY23 YTD Footage	Historical FY22 Footage	FY23 YE Goal	Completed to Plan
84 Month Hydro-Jet Clean	164,544	122,926	55,638	164,865	54,431	506,766	654,851	579,314	87.5%
Selective Line Cleaning	31,441	122,926	14,184	70,097	15,355	168,671	196,114	221,641	76.1%
Special Condition Clean (not in total)	1,390	4,184	2,578	8,140	490	14,204	32,029	28,940	49.1%
Root Control/Chemical Clean	42,723	161,568	59,566	126,767	45,052	320,841	320,841	410,502	78.2%
Cast Iron Cleaning	1,270	5,508	-	720	-	7,498	-	6,293	
Totals	239,978	341,780	129,388	362,449	114,838	1,059,045	1,171,806	1,217,750	87.0%



Maintenance Report

2023 MONTHLY OPERATIONS REPORT

Sewer Line Inspection and Televising



Televising Cost per Footage=\$0.90									
Description	FY23 Q1 Footage	FY23 Q2 Footage	Mar-23 Footage	FY23 Q3 Footage	Apr-23 Footage	FY23 YTD Footage/Count	Historical FY22 Footage/Count	FY23 Goal	% Completed to Plan
84 Month TV Inspection	108,880	120,029	51,454	122,345	30,824	382,078	481,639	477,964	79.9%
84 Month Manhole Inspection Count	525	297	194	539	306	1,667	1,163	2,468	67.5%
Visual/Condition, Pre/Post Cnst TV (not in total)	-	-	10,483	10,483	-	10,483	1,793	11,704	89.6%
Visual Manhole Inspection Count (not in total)	79	26	1	30	3	138	329	-	-
New Development, CIP, Misc (not in total)	1,507	6,394	5,232	12,087	2,360	22,348	33,140	34,056	65.6%
QA/QC Line Condition	-	-	-	-	-	-	19,201	16,074	0.0%
QA/QC Root Control	20,286	2,064	-	-	-	41,050	22,270	41,108	99.9%
Totals	129,166	140,793	51,454	392,304	30,824	423,128	523,110	535,146	79.1%

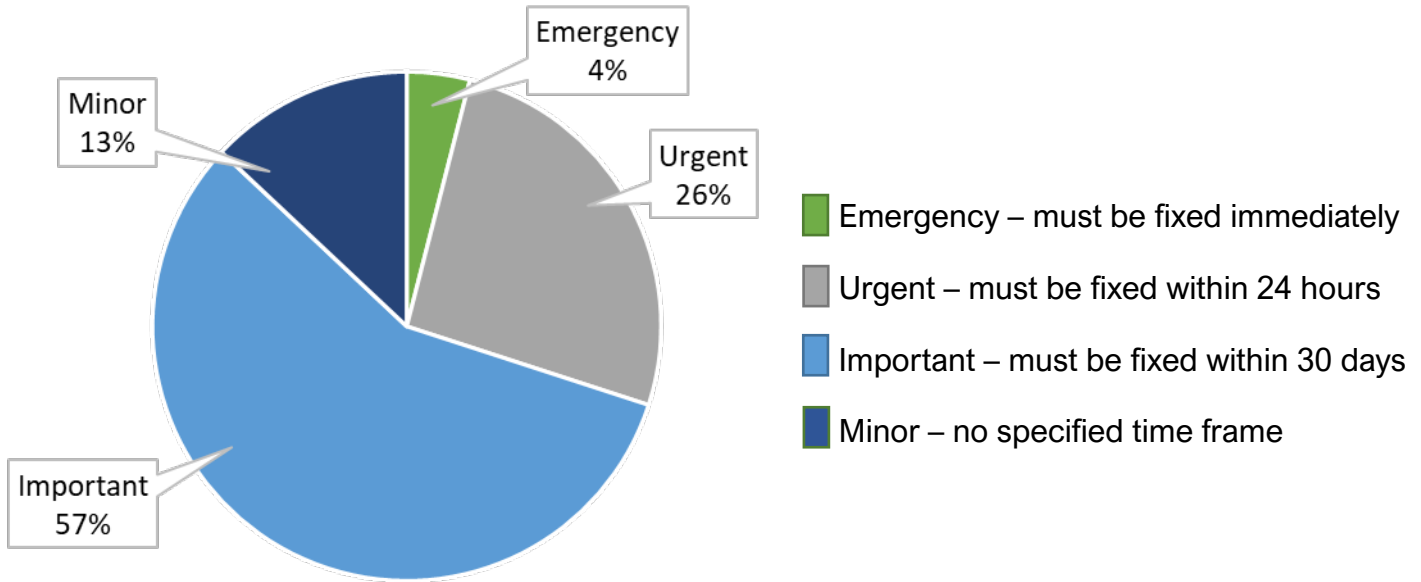


Maintenance Report

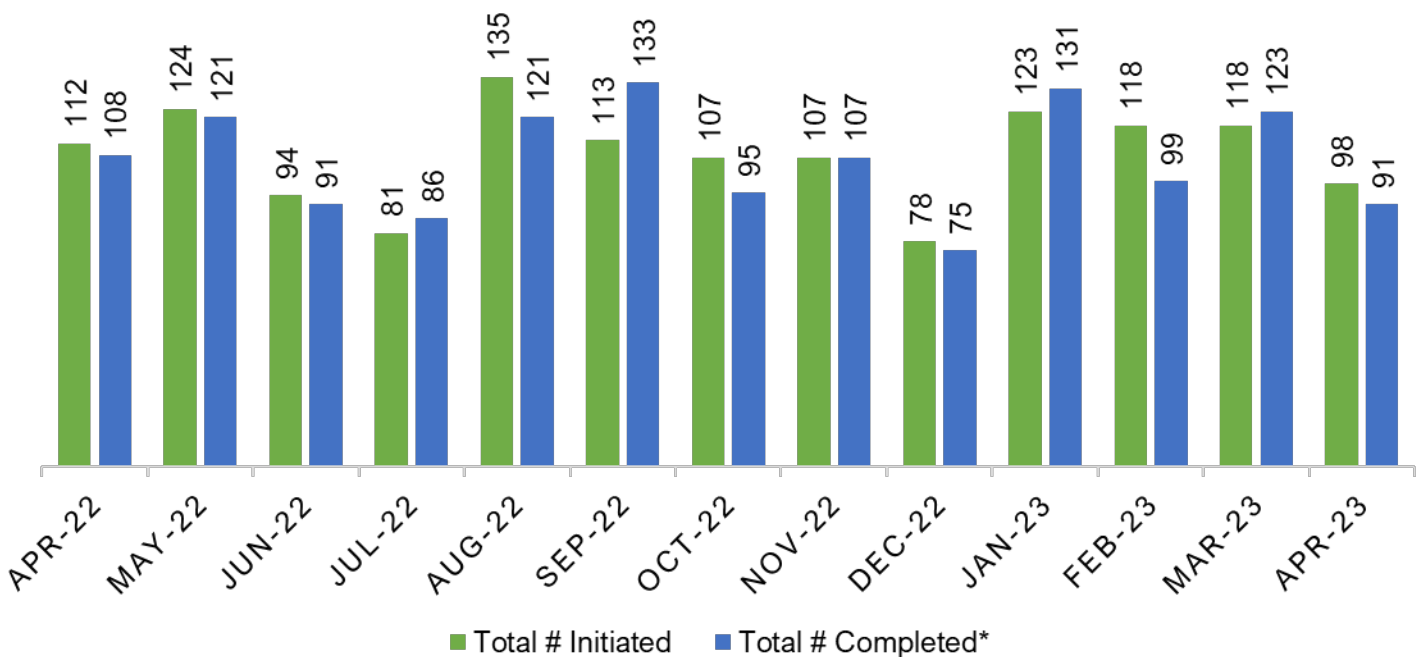
2023 MONTHLY OPERATIONS REPORT

Plant and Pump Stations Maintenance Work Completed

Equipment at our Plant and Pump/Lift stations is maintained by mechanics and other staff through completion of work orders. Staff completed 95.56% of preventative maintenance activities for the month in addition to the following shown below.



Work Orders Initiated and Completed



*The number of work orders completed in a month is dependent upon several factors including the availability of necessary parts and the amount of time required by staff to accomplish a given task.



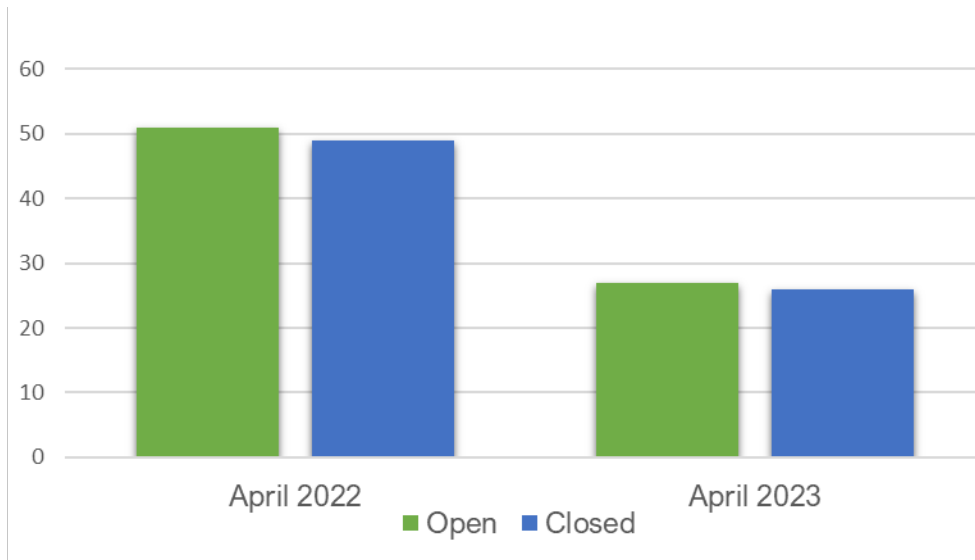
Maintenance Report

2023 MONTHLY OPERATIONS REPORT

Information Technology

USD’s Information Technology (IT) staff install, upgrade, and maintain District computers and software systems. IT staff responsibilities include ongoing maintenance of systems critical to operation of our wastewater treatment plant and pump stations.

IT Help Desk Tickets



Managed and Hosted IT Asset Uptime

Asset Name	USD Managed or Hosted by Third Party	% Up time
USD Website	Hosted	99.93%
Email Server	Hosted	100%
Newark Pump Station	USD Managed	99.99%
Boyce Pump Station	USD Managed	99.99%
Irvington Pump Station	USD Managed	100%
SCADA	USD Managed	100%
Total Average of All USD Servers	USD Managed	99.98%

The majority of our IT network assets are maintained onsite by IT staff with an uptime target of 99.90%. Additional assets, such as the USD website, are hosted externally by a third party.



Capital Improvement Projects

2023 MONTHLY OPERATIONS REPORT

Capital Improvement Project (CIP) Activities

Our engineers manage and coordinate project activities including completion of studies, designing of future projects, and project management of construction work at our Plant, Pump Stations, gravity sewer network, and Force Mains.

Current CIP Projects – Budget and % complete

Current (FY23) CIP Projects	Budget (\$1,000)	Spent to Date (\$1,000)	Scheduled Completion	Completed Scope
1 – Alvarado Influent Pump Station Improvements Project	\$9,028	\$8,420	11/21	99%
2 – Force Main Corrosion Repairs Project – Phase 3	\$1,064	\$1,058	10/22	99%
3 – Irvington Basin Reinforced Concrete Pipe Rehabilitation Project	\$5,291	\$5,205	12/22	98%
4 – Plant Miscellaneous Improvements Project	\$5,544	\$0	9/24	0%
5 – Primary Digester No. 7 Project	\$23,783	\$22,901	5/22	99%
6 – Standby Power Generation System Upgrade Project	\$21,135	\$4,044	6/24	19%



Standby Power Generation System Upgrade Project



Capital Improvement Projects

2023 MONTHLY OPERATIONS REPORT

Design Phase – Budget and % of Completed Scope

Current (FY23) Design Phase	Budget (\$1,000)	Spent to Date (\$1,000)	Scheduled Completion	Completed Scope
1 – Force Main Corrosion Repairs Project – Phase 4	\$68	\$54	3/23	90%
2 – Pump Stations Chemical System Improvements Project	\$762	\$753	10/21	100%
3 – Switchboard No. 3 and MCC No. 25 Replacement Project	\$95	\$71	7/22	75%
4 – WAS Thickener Replacement Project	\$1,017	\$901	6/23	89%

Study Phase – Budget and % of Completed Scope

Current (FY23) Study Phase	Budget (\$1,000)	Spent to Date (\$1,000)	Scheduled Completion	Completed Scope
1 – Alvarado Basin Capacity and Condition Assessment	\$70	\$0	12/23	0%
2 – Cogeneration Replacement and Ventilation Study	\$142	\$135	7/22	95%
3 – Digester Efficiency Study	\$353	\$24	11/23	5%
4 – Energy Resiliency Study	\$256	\$247	12/22	96%
5 – Force Main Condition Assessment	\$121	\$36	10/22	60%
6 – Headworks Degritting Study	\$200	\$156	10/22	95%
7 – Odor Control Alternatives Study	\$504	\$476	12/20	100%
8 – Primary Digester No. 8 Feasibility Study	\$111	\$130	9/22	90%
9 – Pump Stations Condition Assessment Study	\$250	\$200	8/22	98%
10 – Sea Level Rise Study	\$162	\$158	11/22	97%
11 – Thermal Dryer Feasibility Study	\$128	\$126	7/22	98%



Permitting and Inspections

2023 MONTHLY OPERATIONS REPORT

Sewer Permits Issued

Permits issued upon approved completed plans.

Month	Repairs	Mains	New Laterals*	Secondary Units	Restaurants	Other**	Total
Apr-23	26	0	6	8	1	3	44
Mar-23	20	2	37	5	0	3	67
Feb-23	21	0	16	8	0	2	47

*New Laterals- New residential lateral connections

**Other- Non-residential construction (except restaurants)

Storm Water Inspections (City of Fremont)

Under contract with City of Fremont’s Environmental Services Group, our inspectors conduct routine inspections and document enforcement actions.

Total Inspections		Total Monthly Enforcements						
Current Month	Fiscal Year to Date	Verbal Warning	Warning Letter	Notice of Violation	Admin Fine	Legal Action	Notice of Deficiency	Total
68	871	2	0	1	5	0	0	8

Pollution Prevention Inspections

Environmental Compliance conducts pollution prevention inspections at restaurants, car wash businesses, and other commercial facilities.

Total Inspections		Total Monthly Enforcements						
Current Month	Fiscal Year to Date	Verbal Warning	Warning Letter	Notice of Violation	Admin Fine	Legal Action	Notice of Deficiency	Total
49	573	5	4	0	0	0	0	9

Permitted Industrial Businesses

City	Industrial Permits
Fremont	57
Newark	12
Union City	12

Examples of Permitted Industrial Businesses:

- Tesla
- Washington Hospital
- US Pipe
- Western Digital
- Lam Research



Staffing and Personnel

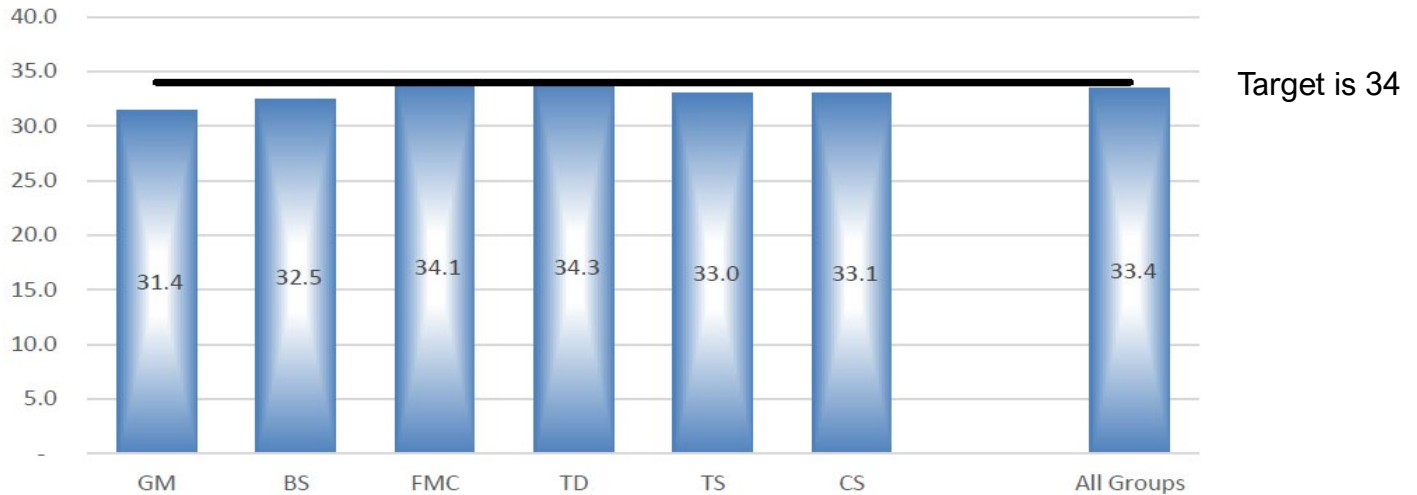
2023 MONTHLY OPERATIONS REPORT

Hours Worked and Leave Time by Work Group

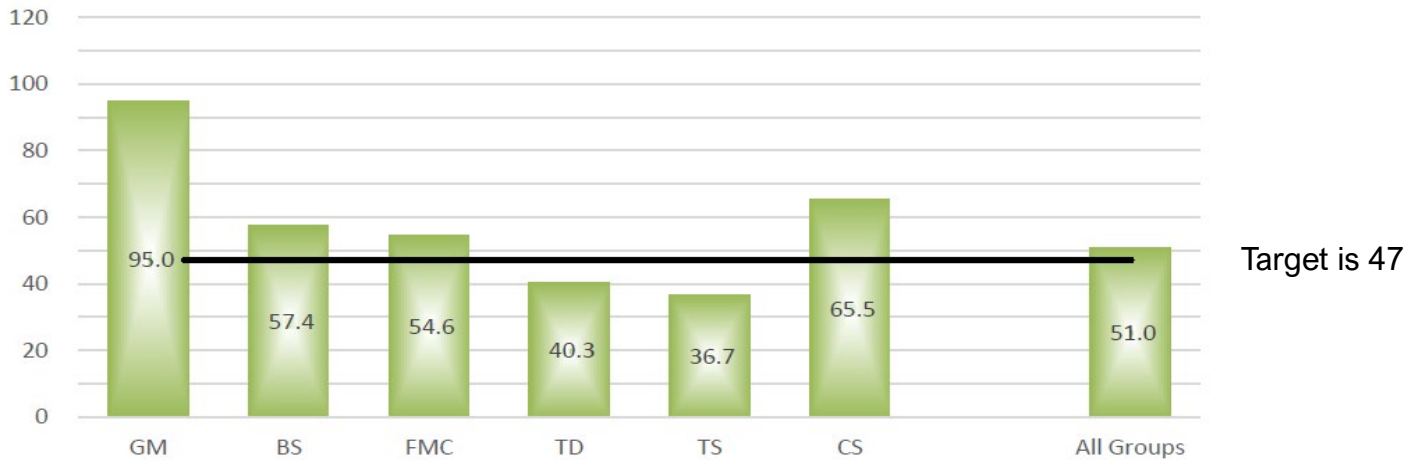
June 23, 2022 through April 26, 2023

Weeks to Date 44 out of 52 (84.61%)

At-Work Hours Per Employee Per Week



Average Annual Sick Leave Used Per Employee Per Date



Recruitments

Position	Position Posted	Status
Plant Operator III Trainee – Limited Duty	3/22/2023	Raman Bains – DOH 5/1/2023
Organizational Support Coordinator I	2/1/2023	Nasiha Rahman – DOH 5/8/2023
Accounting and Financial Analyst I/II	4/17/2023	In progress
Junior/Assistant/Associate Engineer – CIP	4/20/2023	In progress
Quality Assurance Chemist	4/21/2023	In progress



USD TREAT
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Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

**MAY 22, 2023
BOARD OF DIRECTORS MEETING
AGENDA ITEM # 9**

TITLE: Select Boardmembers to Represent Union Sanitary District on External Committees for Fiscal Year 2024 *(This is a Motion Item)*

SUBMITTED: Paul R. Eldredge, General Manager/District Engineer

Recommendation

Select Board Members to serve the FY24 term as USD representatives on the Alameda County Water District Finance Authority (ACWDFA), East Bay Dischargers Authority (EBDA) Commission, Alameda County Chapter of California Special District Association (ACSDA), and the Southern Alameda County Geographic Information System (SACGIS) Joint Powers Authority.

Discussion

Currently, the representatives and alternates for the external committees are:

Organization	Representative	1st Alternate	2nd Alternate
ACWDFA	Jennifer Toy	Manny Fernandez	Tom Handley
EBDA Commission	Anjali Lathi	Tom Handley	Jennifer Toy
ACSDA	Manny Fernandez	Pat Kite	Tom Handley
SACGIS	Tom Handley	Manny Fernandez	Anjali Lathi

Pursuant to the Policy, members completed an external committee interest form and indicated the external committees they wished to serve on in order of preference.

Below is a table showing the preferences indicated by the Board with 1 being the committee in which they are most interested in serving and 4 being the committee in which they are least interested in serving:

Board Member	ACW DFA	EBDA	ACSDA	SACGIS
Manny Fernandez	3	4	2	1
Tom Handley	3	1	4	2
Pat Kite	4	3	2*	4
Anjali Lathi		1		
Jennifer Toy	1	4	2	3

*Director Kite requested to serve as alternate representative to ACSDA

Background

Policy No. 3070 calls for the Board to select representatives and alternates for four External Committees.

Previous Board Action

The Board considers this item annually, the history of the past 10 years of Board action is included in the History of External Committee Assignments 2013 to Present attached.

Attachments: Board Policy 3070, Boardmember Officers and Committee Membership
History of External Committee Assignments 2013 to Present

Union Sanitary District
Policy and Procedure Manual

Effective: 4/26/2021	Boardmember Officers and Committee Membership	Policy Number 3070 Page 1 of 4
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Policy

Selection of Board Officers will be held annually at the first regular meeting following the certification of Board election results in election years or approximately one year after the election of Board Officers in non-election years. Internal Board committee memberships and Board representation for External Committees shall be established following the selection of the Board Officers.

Purpose

To provide a written record of the procedure approved by the Board for electing its Officers and establishing its committee memberships.

Procedure

Board Officers

1. The Officers are President, Vice President, and Secretary and the term of office shall be for approximately one year, allowing for flexibility depending on the date of the election for Boardmembers. In election years, which occur every two years, the term shall run until after certification of election results. In non-election years, the term shall end and begin on such date as determined by the Board to allow for approximate one-year terms, with the understanding that terms may be either longer or shorter than one year depending on the date of the next District election.
2. The Board may, by motion, amend the titles of President and Vice President to Chair and Vice Chair, respectively, provided that the Chair, regardless of title, shall act as the “president” pursuant to California Health & Safety Code Section 6486. Throughout this Policy, the titles President and Vice President shall be used interchangeably with Chair and Vice Chair.
3. The President shall preside over the meetings of the Board of Directors and be responsible for the following:
 - a. maintaining order and following the published agenda
 - b. ensuring Boardmembers are allowed to participate in discussions
 - c. allowing the public to speak on agenda items
 - d. facilitating dialog among the public, staff, and Boardmembers
 - e. appointment of members of the Board of Directors to Internal Committee assignments
 - f. signing resolutions, ordinances, and construction contracts on behalf of the District

- g. representing the Board of Directors on issues or at events as designated by the full Board

The Vice President shall fulfill the duties of the President when the President is absent or otherwise unavailable.

The Secretary shall ensure the recording of the minutes of the Board of Directors meetings and sign the adopted Minutes, shall sign all Resolutions and Ordinances passed by the District, and shall serve as Vice President when the Vice President is absent or otherwise unavailable. If the President and Vice President are both absent, and a quorum is present, the Secretary shall preside over the meetings of the Board of Directors as the Board President.

4. During election years, the newly elected Boardmembers shall be sworn in as the first item of business on the agenda followed immediately by the selection of the Board Officers. During non-election years, the selection of the Board Officers shall be considered after the last motion item on the agenda. The Board shall elect the President, Vice-President, and Secretary for terms as set forth in Section 1 above. The election or removal of the President, Vice-President, or Secretary shall require a majority vote of the Board. The Board may choose to follow a rotation of officers.

The Board officers in office at the beginning of the meeting shall retain their positions until the adjournment of the meeting and the newly selected Board Officers shall assume their duties immediately following this meeting.

Internal Board Committee Memberships

1. Internal committees are: Budget and Finance; Engineering and Information Technology; Legal/Community Affairs; Legislative; Personnel; and Audit Committee. There is no fixed schedule for meetings set by this policy and appointments are made by the President, as set forth below. Notwithstanding the above, meetings are noticed and open to the public.
2. Annually, following the election of Board officers, and at the same meeting as the election of the officers, Directors shall be provided a list of the internal committees along with an internal committee interest form. The internal committee interest form shall be completed in order of preference and provided to the General Manager, or designee, no later than 11 calendar days in advance of the next Board meeting.
3. The President is delegated the authority to appoint Directors to the internal committees. The President shall make every effort to rotate committee assignments and ensure a similar number of committee assignments for each Board member. Notice of internal committee membership appointments will be contained in an information item to the Board at the next regularly scheduled meeting following the selection of the Board Officers. The determination of the Board President on committee assignments shall be

considered final.

- 4. Ad Hoc committees are called as needed by a majority vote of the Board of Directors.

External Commissions / Committee Representatives (CCR)

- 1. External commissions/committees include: the EBDA Commission; the Joint Powers Authority for Geographic Information Systems; the Alameda County Water District Finance Authority (ACWDFA); and the Alameda County Chapter of the California Special Districts Association.
- 2. Membership on the EBDA Commission shall be a maximum of two consecutive years, with a possible three years in exceptional circumstances if approved by the Board.
- 3. The Board of Directors will elect representatives for External Committees annually. At the same meeting as the election of officers, Directors shall be provided a list of external committees along with an external committee interest form. The external committee interest form shall be completed in order of preference and provided to the General Manager, or designee, no later than 11 calendar days in advance of the meeting. The external committee interests shall be compiled in a motion item staff report by the General Manager, or designee, and provided to the Board for consideration. The Board shall elect the external committee representatives for one-year terms to start on July 1 of each year, or as otherwise decided by the Board majority, unless the assignment is vacant, in which case the term shall begin immediately upon election. The Board may choose to follow a rotation for representatives. The election or removal of external committee representatives shall require a majority vote of the Board.

Management Responsibility

The General Manager will be responsible for scheduling on the Board agenda, the election or appointment of Board officers and external commissions, pursuant to the schedule shown above. The General Manager, or designee, will provide the following to the new President, with copies to the Board: (1) a list of the last ten years and current committee memberships; (2) a copy of this policy; and (3) a list of internal committee interests. In consultation with the Board President, the General Manager will also be responsible for scheduling on the Board agenda the announcement of internal committee appointments.

Supersedes Policy Dated: July 2004, September 2005, January 2008, September 2010, October 2013, December 2016, December 2019

Approved by:	Board of Directors, April 2021
Reviewers:	General Manager, Board of Directors, District’s attorney
Notify Person:	General Manager
Review frequency:	Every 3 years
Next Review:	April 2024

**Union Sanitary District
BOARDMEMBER EXTERNAL COMMITTEE ASSIGNMENTS
2013 – Present**

Date	EBDA	CSDA	GIS	ACWDFA
7/22-7/23	Anjali Lathi Alt: Tom Handley	Manny Fernandez Alt: Pat Kite	Tom Handley Alt: Manny Fernandez	Jennifer Toy Alt: Manny Fernandez
7/21-7/22	Jennifer Toy Alt: Anjali Lathi	Jennifer Toy Alt: Pat Kite	Tom Handley Alt: Manny Fernandez	Anjali Lathi Alt: Tom Handley
7/20-7/21	Jennifer Toy Alt: Anjali Lathi	Jennifer Toy Alt: Pat Kite	Tom Handley Alt: Manny Fernandez	Pat Kite Alt: Anjali Lathi
8/19-7/20	Anjali Lathi** Alt: Tom Handley	Jennifer Toy Alt: Tom Handley	Manny Fernandez Alt: Jennifer Toy	Pat Kite Alt: Jennifer Toy
7/18-7/19	Tom Handley Alt: Jennifer Toy	Pat Kite Alt: Manny Fernandez	Manny Fernandez Alt: Jennifer Toy	Anjali Lathi Alt: Jennifer Toy
7/17-7/18	Jennifer Toy Alt: Tom Handley	Pat Kite Alt: Jennifer Toy	Tom Handley Alt: Manny Fernandez	Anjali Lathi Alt: Manny Fernandez
7/16-7/17	Jennifer Toy Alt: Tom Handley	Pat Kite Alt: Manny Fernandez	Manny Fernandez Alt: Anjali Lathi	Anjali Lathi Alt: Pat Kite
6/15-7/16	Tom Handley Alt: Manny Fernandez	Pat Kite Alt: Manny Fernandez	Jennifer Toy Alt: Anjali Lathi	Jennifer Toy Alt: None
6/14-6/15	Tom Handley Alt: Manny Fernandez	Pat Kite Alt: Manny Fernandez	Jennifer Toy Alt: Anjali Lathi	Jennifer Toy Alt: None
6/13-6/14	Tom Handley Alt: Manny Fernandez	Pat Kite Alt: Manny Fernandez	Jennifer Toy Alt: Anjali Lathi	Jennifer Toy Alt: None

** Due to unforeseen conflicts, Director Handley attended the majority of EBDA meetings during FY20



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*General Manager/
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Karen W. Murphy
Attorney

**MAY 22, 2023
BOARD OF DIRECTORS MEETING
AGENDA ITEM # 10**

TITLE: Review and Consider Approval of the Laboratory Director Position Description and Salary Range (*This is a Motion Item*)

SUBMITTED: Paul R. Eldredge, General Manager/District Engineer
Mark Carlson, Business Services Workgroup Manager/CFO
Alisa Gordon, Human Resources Manager

Recommendation

Consider and approve the Laboratory Director position description and subsequent salary range.

Discussion

With the recent addition of the Quality Assurance (QA) Chemist to the Research and Support (R&S) team, the District has taken the opportunity to review the structure and job descriptions of its current laboratory staff to ensure continued compliance with new regulations while maintaining an appropriate balance of workload.

The Laboratory Director position previously held duties that have since transitioned to the QA Chemist. The job description has been updated to remove those duties and to reflect the role of the Laboratory Director as the Technical Manager in the application of the National Environmental Laboratories Accreditation Conference (NELAC) Institute (TNI) standards. In this role, the Laboratory Director oversees operations of the Laboratory Information Management Systems (LIMS), oversees the analytical and standard operating procedures, and works with the QA Chemist to ensure that the lab's quality assurance program meets appropriate accreditation standards.

This role will also support current chemists in routine and non-routine analyses on an emergency basis. This position is not a supervisory position of the laboratory staff and will continue to report directly to the Coach, Research & Support/Principal Engineer.

Previously, this position was represented by SEIU Local 1021. Due to the addition of the QA Chemist to the laboratory staff, an agreement was reached between the Union and District to remove the Laboratory Director from Union representation.

The salary range for this position has been updated to conform with the Unclassified Salary Range guidelines. Consistent with other Unclassified positions, the salary reflects a range of 80% below the Market Survey Average (MSA) and 5% above the MSA. Additionally, the position will be classified under the Fair Labor Standards Act (FLSA) as “Exempt” instead of its current “Non-Exempt” classification, because of the duties it performs. This change in FLSA classification exempts the position from receiving overtime.

Background

This is a current position for the Research and Support (R&S) team. The position previously was represented by SEIU Local 1021 and classified as Non-Exempt.

Previous Board Action

Original position approved by the Board of Directors February 23, 2009. Last revised in March 2010 and August 2017.

Attachments

- Redlined Laboratory Director Position Description
- Revised Laboratory Director Position Description



UNION SANITARY DISTRICT
Established Date: Feb 23, 2009
Revision Date: ~~August 2, 2017~~ May 22, 2023

SALARY RANGE

~~\$69,416.21~~ - ~~\$84,018.21~~ Hourly
~~\$5,529.09~~ - ~~\$5,376.51~~ Biweekly
~~\$11,079.69~~ - ~~\$11,649.11~~ Monthly
~~\$143,756.29~~ - ~~\$139,789.31~~ - ~~\$174,736.64~~ - ~~\$183,473.47~~ Annually

DESCRIPTION:

In accordance with Title 22 of the California Code of Regulations, the Laboratory Director coordinates, under general supervision in a team environment, conducts, and oversees a variety of laboratory programs, including the quality assurance, chemical hygiene, safety, and training programs; participates in the NPDES renewal process and oversees monitoring programs; takes all steps necessary to ensure compliance with the Environmental Laboratory Accreditation Program (ELAP) standards and maintain laboratory certification; participates in audits, develops, writes, reviews, and approves procedures for analytical methods; represents the District to regulatory and other agencies, consultants, inter-agency laboratory committees, and the public; provides technical supervision to Laboratory staff including planning, assigning, directing, guiding and reviewing the work of staff; oversees requisition and maintenance of laboratory supplies and equipment; oversees contract laboratory services and/or works on a variety of special projects; and coordinates laboratory services with other work groups.

This classification works under general supervision and as a team member. Successful performance of the work requires the ability to maintain up-to-date knowledge of regulatory requirements and other technical matters; exercise sound judgment, particularly with respect to laboratory practices and procedures; and demonstrate tact, discretion, and diplomacy in dealing with employees, regulatory and other agencies, consultants, and the public.

EXAMPLES OF DUTIES:

Serves as Technical Manager, as described in the applicable version of the National Environmental Laboratories Accreditation Conference (NELAC) Institute (TNI) standard.

Coordinate with the QA chemist to ensure that the laboratory's quality assurance program ~~to ensure that the program~~ meets the Environmental Laboratory Accreditation Program (ELAP) standards; review quality assurance/quality controls (QA/QC) records and reports; recognize QA problems and take all necessary action to resolve problems and maintain ELAP certification; certify annual ELAP proficiency studies and QA/QC Corrective Action forms as needed; act as liaison for ELAP.

Develop, schedule and manage sample collection and regulatory monitoring required for the plant process control and permit compliance.

Work with staff to plan and schedule the activities and work of Laboratory staff; review and provide feedback to staff. Provide input to Coach on lab staff -performance evaluations.

Evaluate, compile, manage and certify laboratory data and records for completion, regulatory compliance, and quality control; and prepare reports relevant to NPDES regulatory monitoring, source control, process control and ELAP certification; complete biennial ELAP certification renewal application.

Oversee and participate in activities related to obtaining certification under the National Laboratory Accreditation program (NELAC) should it become necessary.

Develop, write, review, oversee, and approve analytical and standard operating procedures and recommend corrective action, as appropriate.

Keep informed about new laboratory methods and equipment, wastewater treatment processes, and regulatory requirements.

~~Coordinate the laboratory safety program; act as the Chemical Hygiene Officer, maintain and certify the Chemical Hygiene Plan annually for the District's Injury & Illness Prevention Plan; perform, train and observe others to perform assignments in a safe manner, consistent with District and work group safety rules, policies, and procedures; recognize,~~

Coordinate the laboratory safety program; act as the Chemical Hygiene Officer, maintain and certify the Chemical Hygiene Plan annually for the District's Injury & Illness Prevention Plan; perform, train and observe others to perform assignments in a safe manner, consistent with District and work group safety rules, policies, and procedures; recognize, correct, and report safety hazards; work with staff to maintain laboratory safety program records; maintain chemical inventory and oversee material safety data sheet program.

Coordinate and oversee the laboratory's overall training program, including documentation.

Provide technical assistance and training, including safety and quality assurance, on a wide variety of laboratory practices and procedures, sampling programs and analytical techniques.

Assist in the selection process for laboratory staff.

Oversee contract laboratory services, approve contract laboratory charges within authorized dollar amounts, and review contract laboratory reports.

Take a lead role in conducting analytical research and special studies related to source control, process control, permit compliance, and other aspects related to water quality control and/or analytical procedures.

Manage multiple special projects, including generating RFPs and evaluating proposals, interviewing consultants, preparing contracts, and monitoring projects.

Coordinate with other work groups, outside agencies, and consultants concerning sampling and analysis schedules, analytical results, and special studies.

Represent the District at meetings of regional task forces, committees, and work groups to remain abreast of laboratory requirements, to develop work products related to regulations or other critical laboratory requirements, and to network with other professionals; represent the laboratory to regulatory agencies.

Ensure that routine and major maintenance is performed on laboratory equipment.

Review literature related to complex technical issues.

Perform higher-level technical analyses on an emergency basis, using independent judgment in interpreting results; use highly specialized instruments such as ICP spectrometer.

Perform careful and accurate routine and non-routine chemical, biological, and microbiological analyses of wastewater and related materials and advanced analyses ~~when assigned on an emergency basis~~; fill in for ~~Analyst and~~ Chemists including QA Chemist in performing routine and non-routine analyses and in collecting routine and non-routine samples on an emergency basis.

Oversee the operation and administration of the Laboratory Information Management System (LIMS).

Requisition laboratory supplies and equipment and approve purchases and invoices within specific dollar amounts. Assist in developing and monitoring the laboratory budget.

Handle, store, and dispose of laboratory hazardous chemicals and wastes and perform Hazmat-related tasks as assigned.

Conduct laboratory and special project meetings.

May act for the Coach on a relief basis.

Incumbents will perform any other duties that are appropriate for the scope and level of responsibility of this classification.

QUALIFICATIONS:

Education, Experience and Certification: Any combination of education and experience that provides the knowledge, skills, and abilities indicated below. A typical way of gaining the knowledge, skills, and abilities is:

- Bachelor's degree in chemistry, biology, or its equivalent, and ~~a minimum of~~ four (4) years' experience in an analytical chemistry laboratory performing chemical and biological analyses, at least three years of which must have been in wastewater analyses, and possession of the CWEA Laboratory Analyst Grade III;

or

~~A minimum of five~~ Five (5) years of experience in an analytical chemistry laboratory

performing chemical and biological analyses, at least three years of which must have been in wastewater analysis, and possession of the CWEA Laboratory Analyst Grade III certificate within three consecutive exam cycles following appointment.

Previous experience with a Laboratory Information Management System (LIMS) is highly desirable.

Knowledge of: The principles, practices, and application of inorganic, and analytical chemistry, biology, microbiology, and mathematics required in an analytical laboratory; standard laboratory practices and procedures; the interpretation of laboratory results related to wastewater treatment processes; laboratory quality assurance; current methodologies and equipment used in a POTW laboratory, including methods, procedures, chain of custody, and sample collection and preservation requirements; laboratory safety practices, including chemical storage and handling; and principles and practices of budgeting, planning, training, scheduling, and project management.

Skill in: Evaluating and modifying analytical laboratory procedures; evaluating and interpreting analytical results, evaluating degree of compliance and conformance, and drawing sound conclusions; interpreting, explaining, and applying District, local, state, and federal laws and regulations applicable to areas of responsibility; performing higher-level technical analyses as well as conducting routine and non-routine chemical, biological, and microbiological analyses; using, maintaining, and troubleshooting analytical laboratory equipment; organizing work, setting priorities, and managing multiple projects; providing technical supervision to staff; exercising sound judgment; keeping clear, complete and accurate records and correspondence; and using a computer.

Ability to: Understand and carry out oral and written instructions in English; maintain ELAP certification; plan, schedule, and review the work of others; provide guidance to staff and train others in sampling and laboratory procedures; provide guidance on special projects; work within District safety standards; make sound decisions regarding the proper operation of the laboratory; anticipate future laboratory resource needs; and oversee and manage commercial laboratory contracts.

Interpersonal Effectiveness: Ability to work effectively in a team-based organization; establish and maintain effective relationships with customers, all levels of District staff, regulatory agencies, peers, and the public; demonstrate effective leadership, problem-solving, and two-way communication skills, including the ability to listen, explain, facilitate, ask for input, and provide recognition and encouragement.

Other Requirements:

- Must possess the physical characteristics to perform the critical and important duties of the job.
- Must be willing to work overtime as needed.
- May be occasionally required to drive a motor vehicle or otherwise travel off site. If operating a District vehicle, must be insurable by the District.

ADDITIONAL INFORMATION:

Disaster Service Worker

Employees of Union Sanitary District are, by State and Federal law, Disaster Service Workers. In the event of a declaration of emergency, any employee may be assigned activities that promote the protection of public health and safety or the preservation of lives and property, either at the District or within the local or their own community.

Approval by Board of Directors: February 23, 2009.
Revised March 2010; August 2017; ~~January-April~~ **May 2023**.
Position status: ~~Un~~**C**lassified, ~~Non-e~~**E**xempt (Professional)



UNION SANITARY DISTRICT
Established Date: Feb 23, 2009
Revision Date: May 22, 2023

SALARY RANGE

\$67.21- \$88.21 Hourly
\$5,376.51 - \$7,056.67 Biweekly
\$11,649.11 - \$15,289.46 Monthly
\$139,789.31 - \$183,473.47 Annually

DESCRIPTION:

In accordance with Title 22 of the California Code of Regulations, the Laboratory Director coordinates, under general supervision in a team environment, conducts, and oversees a variety of laboratory programs, including the quality assurance, chemical hygiene, safety, and training programs; participates in the NPDES renewal process and oversees monitoring programs; takes all steps necessary to ensure compliance with the Environmental Laboratory Accreditation Program (ELAP) standards and maintain laboratory certification; participates in audits, develops, writes, reviews, and approves procedures for analytical methods; represents the District to regulatory and other agencies, consultants, inter-agency laboratory committees, and the public; provides technical supervision to Laboratory staff including planning, assigning, directing, guiding and reviewing the work of staff; oversees requisition and maintenance of laboratory supplies and equipment; oversees contract laboratory services and/or works on a variety of special projects; and coordinates laboratory services with other work groups.

This classification works under general supervision and as a team member. Successful performance of the work requires the ability to maintain up-to-date knowledge of regulatory requirements and other technical matters; exercise sound judgment, particularly with respect to laboratory practices and procedures; and demonstrate tact, discretion, and diplomacy in dealing with employees, regulatory and other agencies, consultants, and the public.

EXAMPLES OF DUTIES:

Serves as Technical Manager, as described in the applicable version of the National Environmental Laboratories Accreditation Conference (NELAC) Institute (TNI) standard.

Coordinate with the QA chemist to ensure that the laboratory's quality assurance program meets the Environmental Laboratory Accreditation Program (ELAP) standards; review quality assurance/quality controls (QA/QC) records and reports; recognize QA problems and take all necessary action to resolve problems and maintain ELAP certification; certify annual ELAP proficiency studies and QA/QC Corrective Action forms as needed; act as liaison for ELAP.

Develop, schedule and manage sample collection and regulatory monitoring required for the plant process control and permit compliance.

Work with staff to plan and schedule the activities and work of Laboratory staff; review and provide feedback to staff. Provide input to Coach on lab staff performance evaluations.

Evaluate, compile, manage and certify laboratory data and records for completion, regulatory compliance, and quality control; and prepare reports relevant to NPDES regulatory monitoring, source control, process control and ELAP certification; complete biennial ELAP certification renewal application.

Oversee and participate in activities related to obtaining certification under the National Laboratory Accreditation program (NELAC) should it become necessary.

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Keep informed about new laboratory methods and equipment, wastewater treatment processes, and regulatory requirements.

Coordinate the laboratory safety program; act as the Chemical Hygiene Officer, maintain and certify the Chemical Hygiene Plan annually for the District's Injury & Illness Prevention Plan; perform, train and observe others to perform assignments in a safe manner, consistent with District and work group safety rules, policies, and procedures; recognize, correct, and report safety hazards; work with staff to maintain laboratory safety program records; maintain chemical inventory and oversee material safety data sheet program.

Coordinate and oversee the laboratory's overall training program, including documentation.

Provide technical assistance and training, including safety and quality assurance, on a wide variety of laboratory practices and procedures, sampling programs and analytical techniques.

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Ensure that routine and major maintenance is performed on laboratory equipment.

Review literature related to complex technical issues.

Perform higher-level technical analyses on an emergency basis, using independent judgment in interpreting results; use highly specialized instruments such as ICP spectrometer.

Perform careful and accurate routine and non-routine chemical, biological, and microbiological analyses of wastewater and related materials and advanced analyses on an emergency basis; fill in for Chemists including QA Chemist in performing routine and non-routine analyses and in collecting routine and non-routine samples on an emergency basis.

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Five (5) years of experience in an analytical chemistry laboratory

performing chemical and biological analyses, at least three years of which must have been in wastewater analysis, and possession of the CWEA Laboratory Analyst Grade III certificate within three consecutive exam cycles following appointment.

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Skill in: Evaluating and modifying analytical laboratory procedures; evaluating and interpreting analytical results, evaluating degree of compliance and conformance, and drawing sound conclusions; interpreting, explaining, and applying District, local, state, and federal laws and regulations applicable to areas of responsibility; performing higher-level technical analyses as well as conducting routine and non-routine chemical, biological, and microbiological analyses; using, maintaining, and troubleshooting analytical laboratory equipment; organizing work, setting priorities, and managing multiple projects; providing technical supervision to staff; exercising sound judgment; keeping clear, complete and accurate records and correspondence; and using a computer.

Ability to: Understand and carry out oral and written instructions in English; maintain ELAP certification; plan, schedule, and review the work of others; provide guidance to staff and train others in sampling and laboratory procedures; provide guidance on special projects; work within District safety standards; make sound decisions regarding the proper operation of the laboratory; anticipate future laboratory resource needs; and oversee and manage commercial laboratory contracts.

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Other Requirements:

- Must possess the physical characteristics to perform the critical and important duties of the job.
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Approval by Board of Directors: February 23, 2009.
Revised March 2010; August 2017; May 2023.
Position status: Unclassified, Exempt (Professional)



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

**MAY 22, 2023
BOARD OF DIRECTORS MEETING
AGENDA ITEM # 11**

TITLE: Consent to the Subcontractor Substitution of National Glass Systems with Alumawall, Inc. and AAC Glass Inc. as Requested by Zovich Construction for the Enhanced Treatment and Site Upgrade Program Phase 1A Campus Building Project. (This is a Motion Item)

SUBMITTED: Paul R. Eldredge, General Manager/District Engineer
Ric Pipkin, Enhanced Treatment and Site Upgrade Program Manager
Gus Carrillo, Enhanced Treatment and Site Upgrade Assistant Engineer
ETSU Steering Committee (Armando Lopez, Raymond Chau, Robert Simonich)

Recommendation

Staff recommends the Board authorize the General Manager to consent to the subcontractor substitution request from Zovich construction for the Enhanced Treatment and Site Upgrade Program Phase 1A Campus Building Project in consultation with General Counsel. The substitution request is due to National Glass Systems' failure to perform under Public Contract Code Section 4107(a)(3). Pursuant to Public Contract Code Section 4107 Zovich construction is proposing to replace National Glass Systems with:

1. Alumawall, Inc. for the Metal Wall and Roof Panel scope of work.
2. AAC Glass Inc for the Aluminum Windows and Glazing scope of work.

Discussion

The Board awarded the construction contract for the Project to Zovich Construction on June 13, 2022 in the amount of \$76,375,000.00. National Glass Systems was the listed subcontractor for the following two scopes of work:

- Metal Wall and Roof Panels. Subcontract value \$3,073,000.

- Aluminum Windows and Glazing. Subcontract value \$1,612,520.

Zovich Construction requested that National Glass Systems be replaced with Alumawall, Inc. and AAC Glass Inc as the subcontractor for the two above scopes of work, due to National Glass Systems' continued failure to provide required contract submittals. Public Contract Code Section ("PCC") 4107(a) allows a subcontractor to be substituted with the consent of the governing authority in certain circumstances. Zovich requested the District's consent pursuant to PCC 4107(a)(3), due to National Glass Systems' failure to perform its subcontract. Zovich submitted documentation to support their request, an abridged version is attached to this staff report, and indicates that National Glass Systems' is failing to perform under its contract. National Glass Systems is officially located in Fremont, CA, however, staff found that the notices were forwarded outside the area by the USPS.

As required by PCC 4107(a), the District sent a notice to National Glass Systems by certified mail. The notice was sent on April 19, 2023 to National Glass Systems' last known address. Pursuant to PCC 4107(a), National Glass Systems had five days to submit written objections. As of May 9, 2023, the District has not received any objection from National Glass Systems. Given the documentation submitted by Zovich and the fact that National Glass Systems has not objected, staff recommends the Board authorize the General Manager to consent to the substitution.

Background

The ETSU Program is the culmination of the District's planning efforts and is based on the outcomes and findings of the Plant Solids System/Capacity Assessment – Phases 1 and 2, Administration/Control/FMC Buildings Evaluation, the Effluent Management Study and the Secondary Treatment Process Improvements evaluation. The Program includes projects recommended for implementation that will be phased to address both immediate drivers (poor sludge settleability, treatment capacity, effluent disposal and aging infrastructure), while preparing for future requirements such as nutrient regulations for discharge in the Bay that are currently being considered by the Regional Water Quality Control Board.

The Phase 1 and 2 projects included in this program were presented to the Board during the workshop held on May 8, 2019 and are summarized in the Final Report which was approved by the Board on August 26, 2019. A third phase of projects was briefly outlined that covered the timeframe from 2040 to 2058 and included potentially stricter nutrient limits in the more distant future. The projects identified in the ETSU Program and modified by the 30% design report to be implemented in the near-term (the next seven to ten years) are included in Phase 1 and are summarized in the table below.

Phase 1A	Aeration Basin Modifications	Retrofitting existing Aeration Basins 1 through 7 and construction of an 8 th aeration basin with the flexibility to operate initially with an anaerobic selector during the implementation phase and transitioning to a biological nutrient removal (BNR) process following completion.
Phase 1A	Campus Building (Admin, FMC, Ops)	Construction of a new combined Campus Building, including associated site and utility improvements.
Phase 1B	Secondary Clarifiers	Construction of four new 160-foot diameter secondary clarifiers, mixed liquor control box, and centralized RAS pump station.
Phase 1B	Effluent Facilities	Construction of new chlorination/dechlorination contact basins, effluent pump stations, and relocation of existing effluent force main.
Phase 1C	Plant Equalization Storage	Retrofitting existing Secondary Clarifiers 1 through 4 to operate as primary effluent equalization basins.

The full version of the ETSU Program report, including appendices, can be found at the following link: <https://unionsanitary.ca.gov/ETSU>.

ETSU Phase 1A Project

Staff developed a Phase 1A Project scope which includes the Aeration Basin Modifications project and the Campus Building project. These two projects were being designed together for the initial construction because they are the first two concurrent projects that must be constructed to facilitate the construction of the remainder of Phase 1 program. However, due to a number of factors including the Covid 19 pandemic the design of the Aeration Basins Modifications Project was able to be completed prior to the Campus Building Project.

The major scope items for the Campus Building Project are as follows:

- Construction of the new 65,000 SF Campus Building which includes administrative, laboratory, machine shop, painting booth, treatment plant operations control room, and other support areas.
- Construction of a new Storm Drain Pump Station
- Construction of Electric Vehicle Charging Stations including EV Chargers for USD’s vehicle fleet and public parking areas.
- Construction of 435+ kW Photovoltaic systems including PV systems over the building main entrance (canopy), parking lot-based (carport), and rooftop-based systems.

Previous Board Action

August 26, 2019, the Board Adopted Resolution 2864 Approving the District's Final Report for the Enhanced Treatment & Site Upgrade Program.

January 13, 2020, the Board authorized the General Manager to execute an Agreement and Task Order No. 1 with Hazen and Sawyer in the amount of \$6,752,860 for the Enhanced Treatment and Site Upgrade Phase 1A Project to provide the 30% design services for all projects in Phase 1 of the ETSU Program (excluding the Campus Building project) and final design services associated with the Aeration Basin Modifications Project.

March 9, 2020, the Board authorized the General Manager to execute Task Order No. 2 with Hazen and Sawyer in the amount of \$3,737,412 for the Enhanced Treatment and Site Upgrade Phase 1A Project to complete the design of the Campus Building Project.

June 13, 2022, the Board awarded the construction contract for the Enhanced Treatment and Site Upgrade Program Phase 1A Campus Building Project to Zovich Construction in the amount of \$76,375,000.00.

PRE/RP/GC

Attachments:

- April 17, 2023 Correspondence from Zovich Construction (abridged)
- April 19, 2023, Notices to National Glass Systems (abridged)



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

April 18, 2023

Octavio Martinez
National Glass Systems, Inc.
4778 Gertrude Drive
Fremont, California 94536

Subject: **Union Sanitary District Enhanced Treatment and Site Upgrade Program
Phase 1A Project – Campus Building (Project Number 800-545)**

Original Bid Listed Sub-Contractor Substitution Request

Dear Mr. Martinez,

Per the California Public Contract Code Section 4107(a), **Union Sanitary District (District)** is providing you with notice of **Zovich Construction, Inc.** intent of substituting **National Glass Systems, Inc.** as a listed sub-contractor for Aluminum Windows & Glazing for the contract value of **One Million, Six Hundred, Twelve Thousand, Five Hundred, Twenty Dollars (\$ 1,612,520.00.)**.

This notice was prepared by Enhanced Treatment & Site Upgrade Program Manager Ric Pipkin.

A handwritten signature in black ink, appearing to read "Ric Pipkin", written over a solid horizontal line.

Ric Pipkin, P.E
Enhanced Treatment & Site Upgrade Program Manager
Union Sanitary District
5072 Benson Road, Union City, CA 94587
510-477-7562
ricp@unionsanitary.ca.gov



103 Technology Court
Suite A
Brentwood, CA 94513
Phone: 925-775-4227
Fax: 925-238-0428

April 17, 2023

Ric Pipkin
ETSU Program Manager

Re: Enhanced Treatment and Site Upgrade Program - Phase 1A Campus Building
Request For Substitution - Public Contract Code §4107 (a) (3)

Dear Mr Pipken:

Zovich & Sons, Inc. dba Zovich Construction (“Zovich”) requests the consent of the Union Sanitary District to substitute AAC Glass Inc. in place of the listed National Glass Systems for the Aluminum Windows & Glazing scope of work on this project.

Zovich’s request for substitution is based on National Glass Systems’ continued failure to provide contract required submittals within the 30 days agreed to in Exhibit P of our subcontract agreement (which is attached hereto as **Exhibit 1**).

Zovich Construction has sent multiple 48-hour notices, each with a submittal log of open outstanding submittal register items, requesting compliance by National Glass Systems of the numerous outstanding submittals (which are attached as **Exhibits 2 & 3**) To date National Glass has only provided approx. 17% of the required submittals for its scope of work. National Glass’ continued failure to produce the submittals for review and approval will extend the time needed for materials to be ordered and fabricated and may impact the Project’s critical path.

The provisions of **Public Contract Code §4107(a) (3)**, provide that when a listed subcontractor fails or refuses to perform his or her subcontract, the general contractor may substitute that listed subcontractor with the consent of the awarding authority. Pursuant to that provision and the facts set forth above, Zovich requests the Union Sanitary District consent to Zovich Construction’s substitution of AAC Glass, Inc. in place of the listed National Glass Systems for the Aluminum Windows & Glazing scope of work.

A copy of this letter has been sent by certified mail to AAC Glass, Inc. and the listed subcontractor, National Glass Systems.

If further information is needed to make a decision on this request for substitution, please call me.

Sincerely,
Zovich Construction

Ante Zovich, Jr.

Project Manager

The project runs the risk to be substantially delayed if this substitution is not granted.



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

April 18, 2023

Octavio Martinez
National Glass Systems, Inc.
4778 Gertrude Drive
Fremont, California 94536

Subject: **Union Sanitary District Enhanced Treatment and Site Upgrade Program
Phase 1A Project – Campus Building (Project Number 800-545)**

Original Bid Listed Sub-Contractor Substitution Request

Dear Mr. Martinez,

Per the California Public Contract Code Section 4107(a), **Union Sanitary District (District)** is providing you with notice of **Zovich Construction, Inc.** intent of substituting **National Glass Systems, Inc.** as a listed sub-contractor for *Metal Wall and Roof Panels* for the contract value of **Three Million, Seventy-Three Thousand Dollars (\$ 3,073,000.00.)**.

This notice was prepared by Enhanced Treatment & Site Upgrade Program Manager Ric Pipkin.

A handwritten signature in black ink, appearing to read "Ric Pipkin", is written over a solid horizontal line.

Ric Pipkin, P.E
Enhanced Treatment & Site Upgrade Program Manager
Union Sanitary District
5072 Benson Road, Union City, CA 94587
510-477-7562
ricp@unionsanitary.ca.gov



103 Technology Court
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Phone: 925-775-4227
Fax: 925-238-0428

April 17, 2023

Ric Pipkin
ETSU Program Manager

Re: Enhanced Treatment and Site Upgrade Program - Phase 1A Campus Building
Request For Substitution - Public Contract Code §4107 (a) (3)

Dear Mr Pipken:

Zovich & Sons, Inc. dba Zovich Construction (“Zovich”) requests the consent of the Union Sanitary District to substitute Alumawall Inc. in place of the listed National Glass Systems for the Metal Panels Systems scope of work on this project.

Zovich’s request for substitution is based on National Glass Systems’ continued failure to provide contract required submittals within the 30 days agreed to in Exhibit P of our subcontract agreement (which is attached hereto as **Exhibit 1**).

Zovich Construction has sent multiple 48-hour notices, each with a submittal log of open outstanding submittal register items, requesting compliance by National Glass Systems of the numerous outstanding submittals (which are attached as **Exhibits 2 & 3**) To date National Glass has only provided approx. 17% of the required submittals for its scope of work. National Glass’ continued failure to produce the submittals for review and approval will extend the time needed for materials to be ordered and fabricated and may impact the Project’s critical path.

The provisions of **Public Contract Code §4107(a) (3)**, provide that when a listed subcontractor fails or refuses to perform his or her subcontract, the general contractor may substitute that listed subcontractor with the consent of the awarding authority. Pursuant to that provision and the facts set forth above, Zovich requests the Union Sanitary District consent to Zovich Construction’s substitution of Alumawall, Inc. in place of the listed National Glass Systems for the Metal Wall Panel Systems scope of work.

A copy of this letter has been sent by certified mail to Alumawall, Inc. and the listed subcontractor, National Glass Systems.

If further information is needed to make a decision on this request for substitution, please call me.

Sincerely,
Zovich Construction

Ante Zovich, Jr.

Project Manager

The project runs the risk to be substantially delayed if this substitution is not granted.



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Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

**MAY 22, 2023
BOARD OF DIRECTORS MEETING
AGENDA ITEM # 12**

TITLE: Proposed Operating and CIP Budget for Fiscal Year 2024 (This is a Direction Item)

SUBMITTED: Paul R. Eldredge, General Manager, District Engineer
Mark Carlson, CFO, Business Services Workgroup Manager

Recommendation

Review the Proposed Operating and CIP Budget for FY 2024, and direct staff to present the final version at the June 26th Board meeting.

Discussion

Attached for your review is the Proposed Operating and CIP Budget for FY 2024. This budget reflects the Board's input and information presented at the Budget Workshop on April 27, 2023 with the following updated changes since the workshop:

1. T&D – \$107,000 increase to chemical expense for polymer based on new pricing information received.
2. FMC – \$132,712 increase to co-gen gas conditioning expense for two additional gas media change outs in FY 2024. The frequency of gas media changeouts are dependent upon the contaminant levels in the biogas which fluctuate due to various factors. These extra changeouts are anticipated based upon the current gas quality.
3. CIP – \$337,000 decrease to FY 2024 CIP project expenditures for the Standby Power project based on most recent project schedule and estimates. The total anticipated project costs have not changed. The FY 2024 decrease has been added to the FY 2025 expenditures.
4. Revenue – Increase the SRF loan proceeds to match the expected expenditures for the Standby Power project.

Background

This item is brought before the Board on an annual basis. The Board met in a workshop on April 27, 2023 to hear a presentation by staff and to provide feedback on the proposed FY 2024 budget.

Previous Board Action

Proposed Operating and CIP Budget FY 2024



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Union Sanitary District

Union City, California

Draft Operating and CIP Budget

FY 2024



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INTRODUCTION



Placement of the Topping Beam on the New Campus Building
Cover Picture: ETSU Aeration Basin Construction

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Board of Directors



Jennifer Toy



Anjali Lathi



Manny Fernandez



Tom Handley



Pat Kite



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer

SUBJECT: Fiscal Year 2023/2024 Proposed Operating and CIP Budget

Union Sanitary District (USD) staff is pleased to present the proposed annual budget for Fiscal Year (FY) 2024 to the Board of Directors. This budget, covering the period from July 1, 2023 through June 30, 2024, was developed based on direction provided by the Board of Directors.

District Highlights

The District continues to focus on the operation and maintenance of its infrastructure and assets, capital project construction, planning, and effective use of technology. The District reports the following notable items that will be part of the budget for FY 2024:

Enhanced Treatment & Site Upgrade Project – The District embarked on the ETSU Phase 1 Group of Projects in FY 2023 as part of an overall Program to support the next 20 to 40 years of operation. The key drivers for ETSU Phase 1 projects include addressing aging infrastructure, improving water quality in the San Francisco Bay through nutrient removal upgrades, and hardening of infrastructure to support resiliency efforts to manage wet weather events and continuing to provide USD’s critical services without interruption. These include improvements to the aeration basins and relocation of operations, maintenance, and administrative facilities. Construction of the first group of the phase 1 projects are underway and are approximately 15% complete. Design of Phases 1B and 1C are ongoing. It is currently anticipated that construction will continue through 2028 for the various phases.

Project Financing – As part of the ETSU Phase 1 program mentioned above, the District was able to secure \$249 million in low cost EPA Water Infrastructure Finance and Innovation Act (WIFIA) financing in December of 2021. These funds will account for 49% of the total project costs. In addition to the WIFIA financing, the District issued the 2021A bonds for \$110 million in October of

2021. The District's is currently waiting to hear if it will be successful in its application to the State for SRF financing to cover the balance of the ETSU Phase 1 project.

Standby Power Project – The District began the Standby Power project in FY 2023. The Standby Power Generation System Upgrade Project will replace the current emergency power system at the Alvarado Wastewater Treatment Plant. The new equipment will include three emergency power generators and space for one future generator, generator controls, electrical switchgear, above ground diesel fuel storage tank, and other support equipment.

Stewardship and Service - The District continued its record of outstanding stewardship and service. Once again, USD received the Platinum Award from the National Association of Clean Water Agencies for Peak Performance for operating without exceeding the limits or conditions of the District's permit. This is a tribute to the outstanding work by District Operations and Maintenance teams. The District continues to average less than one spill per hundred miles of pipeline per year, ranking the District among the best in the State, while doing so in a very cost-effective manner.

Financial State of the District

The District continues to exercise fiscal prudence when considering how to best manage increasing expenses with the least impact possible on the rate payers. A complex financial model is utilized to run a multitude of "what if" scenarios. Scenario-based modeling allows the District to analyze different financing plan scenarios to assist the District in making sound financial decisions on future operating and infrastructure needs and the long-term sustainability of prospective policies and programs. It is because of this cautionary approach that the District has continued to keep its rates as low as possible and remain financially stable.

Revenue - Sewer Service Charges (SSC) are expected to increase by \$6.6 million in FY 2024 to \$83.6 million and interest earnings are budgeted to increase \$3.0 million to \$4.5 million.

Expenditures - Total District expenditures for the coming fiscal year are projected to increase by \$24.8 million or 18.0%. Operating expenses are anticipated to increase by \$4.6 million or 9.0%. Within the operating category, Salaries and Benefits are expected to increase \$1.2 million or 3.6%. The salary and benefit increases are primarily due to the addition of two new positions in the Treatment and Disposal Department and negotiated increases to salaries. The first is a Limited Duration Plant Operator 3 Trainee to assist with the impacts of the ETSU project on plant operations and the second position is a QA Chemist.

For FY 2024 the District is seeing increases in chemicals, insurance costs, utilities, bio-solids disposal, and District wide parts and materials. The District continues to find ways to reduce costs through planning partnerships and strict fiscal prudence.

The Capital Improvement Program is budgeted to increase \$15.7 million or 22.8% over FY 2023. This is the third year of increased capital expenditures as the District enters into a ten year \$802 million capital program. Capital project spending will continue to focus on rehabilitation and replacement of key elements of the wastewater treatment plant, transport, and collections system.

In keeping with the District's continued efforts toward prudent fiscal planning, the creation of a 115 Pension Trust was adopted by the Board in FY 2022 with an initial contribution of \$3.0 million. The proposed budget plans for a \$6.4 million contribution in FY 2024. This includes the budgeted contribution from FY 2023 of \$3.0 million, that was held in the District's investment pool until the investment market stabilizes, \$3.0 million for FY 2024, and an estimated \$400,000 of accumulated interest earnings on those funds.

Special Projects Fund expenditures will increase by \$916,384 from FY 2023. Some of the more significant special projects are the continued set aside of \$1.5 million for property acquisitions as opportunities become available, approximately \$1.5 million for potential election costs, \$365,000 for the Alvarado Basin study, \$300,000 for a Digester Efficiency Evaluation, and \$150,000 for the Control Box No. 1 grit removal evaluation.

Balanced Budget, Reserves and Rates

USD has long operated with a balanced budget and FY 2024 is no exception. District reserves continue to be stable. Although funds will be taken from both the Sewer Service Fund and Capacity Fund reserves in FY 2024, these are planned capital activities and are part of the long term capital investment strategy of the District.

Conclusion

Given the past fiscal stewardship practiced by the District's Board and staff, the District is well poised to take on the proposed 20 year capital plan that will continue to make Union Sanitary District a leader in wastewater management.

I would like to express my appreciation to all the employees of the District whose hard work is not taken for granted and whose dedication is reflected in the daily delivery of services to the District's customers. The District is firmly committed to meeting every challenge brought forth through innovative and creative problem-solving and embracing continual improvement in all that it does.

Respectfully Submitted,

Paul R. Eldredge, P.E.
General Manager, District Engineer
Union Sanitary District

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FINANCIAL SECTION



ETSU Aeration Basin Construction

Budget Summary – All Funds

	Actual * FY 20/21	Actual * FY 21/22	Budget FY 22/23	Projected FY 22/23	Proposed Budget FY 23/24	Variance to 22/23 Budget	% Change
Revenues							
Sewer Service Charge	\$62,142,806	\$ 73,822,317	\$ 76,965,000	\$ 77,548,864	\$ 83,600,000	\$ 6,635,000	8.6%
Capacity Fees	9,358,209	11,145,152	7,467,000	8,701,518	8,420,000	953,000	12.8%
Work Group Revenues	1,315,019	1,307,546	1,234,500	1,362,903	1,353,500	119,000	9.6%
Interest	1,263,164	1,520,644	1,531,000	5,712,990	4,530,000	2,999,000	195.9%
Other Revenues	17,720	1,607,370	-	40,887	11,276	11,276	-
Net Loan Proceeds	-	110,317,768	-	-	-	-	-
SRF Funds Draw Down (Standby Power)	-	-	-	-	12,296,700	12,296,700	-
Total Revenues	74,096,918	199,720,798	87,197,500	93,367,162	110,211,476	23,013,976	26.4%

Expenditures by Type							
Operating	42,762,626	45,075,325	50,622,850	49,472,794	55,195,877	4,573,027	9.0%
Internal Service (1)	2,010,132	5,113,529	6,178,500	2,683,662	9,662,100	3,483,600	56.4%
Debt Service	4,387,915	7,231,990	9,017,480	8,981,016	9,134,080	116,600	1.3%
Special Projects	714,462	1,002,174	3,238,000	1,084,742	4,154,384	916,384	28.3%
Capital Projects	33,118,927	26,561,708	68,830,200	65,653,064	84,554,100	15,723,900	22.8%
Total Expenditures	82,994,062	84,984,726	137,887,030	127,875,279	162,700,541	24,813,511	18.0%

Revenues Over (under) Expenditures	\$ (8,897,144)	\$ 114,736,071	\$ (50,689,530)	\$ (34,508,117)	\$ (52,489,065)	\$ (1,799,535)	3.6%
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EXPENDITURES BY OPERATING GROUP							
Board of Directors	\$ 141,163	\$ 146,070	\$ 189,942	\$ 169,045	\$ 229,861	\$ 39,919	21.0%
General Manager	991,836	1,044,864	1,522,281	1,320,704	1,336,767	(185,514)	-12.2%
Business Services (2)	10,163,040	17,268,385	18,662,225	15,441,472	22,557,717	3,895,492	20.9%
Collection Services	7,643,479	7,528,445	8,910,580	8,826,397	8,931,936	21,356	0.2%
Technical Services	6,771,336	6,578,316	7,361,274	7,381,721	7,724,288	363,014	4.9%
Treatment & Disposal Services	13,937,436	15,123,376	17,837,232	17,325,429	21,293,508	3,456,276	19.4%
Fabrication, Maint & Construction	9,512,383	9,731,388	11,335,296	10,672,705	11,917,980	582,684	5.1%
Capital Projects (3)	33,118,927	26,561,708	68,830,200	65,653,064	84,554,100	15,723,900	22.8%
Special Projects (3)	714,462	1,002,174	3,238,000	1,084,742	4,154,384	916,384	28.3%
Total by Operating Group	\$82,994,062	\$ 84,984,726	\$137,887,030	\$127,875,279	\$162,700,541	\$ 24,813,511	18.0%

* Actual numbers based on modified accrual basis to reflect budget accounting.

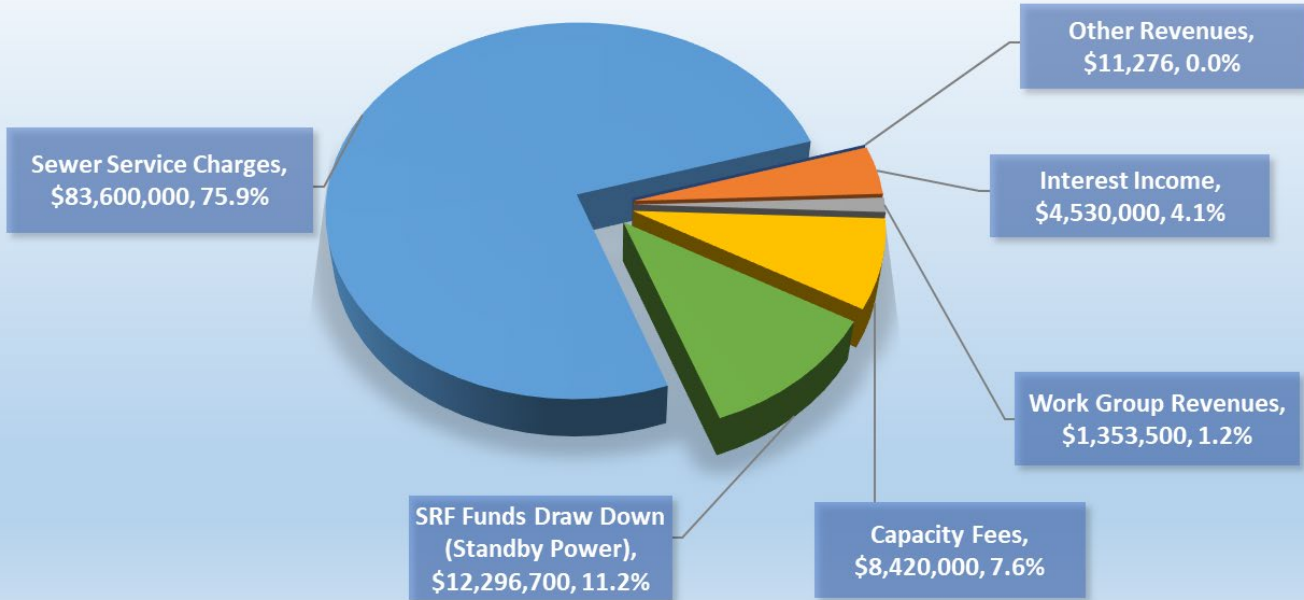
(1) Includes funds 40, 45, 50, 60, and 70.

(2) Business Services handles debt payments and pension management.

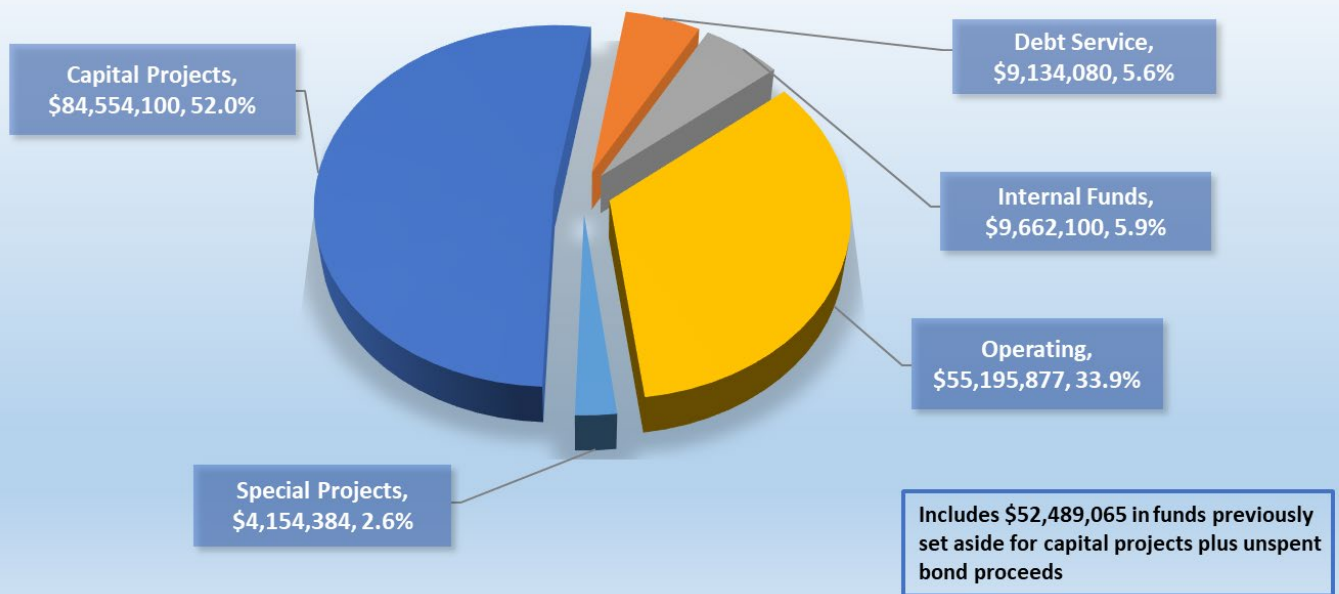
(3) Capital Projects and Special Projects are managed by multiple departments on a collaborative basis.

District Wide Revenue & Expenditures

Total Revenues \$110,211,476



Total Expenditures \$162,700,541



Combined Budget by Fund Sewer Service & Capacity Funds

	Sewer Service Fund	Capacity Fund	Total
Revenues			
Sewer Service Charge	\$ 83,600,000	\$ -	\$ 83,600,000
Capacity Fees	-	8,420,000	8,420,000
Work Group Revenues	1,353,500	-	1,353,500
Interest	2,605,000	1,925,000	4,530,000
Other Revenues	11,276	-	11,276
SRF Funds Draw Down (Standby Power)	12,296,700	-	12,296,700
Total Revenues	99,866,476	10,345,000	110,211,476
Expenditures			
Operating	55,195,877	-	55,195,877
Internal Funds (1)	9,662,100	-	9,662,100
Debt Service	4,943,833	4,190,247	9,134,080
Special Projects	4,154,384	-	4,154,384
Capital Projects	70,605,900	13,948,200	84,554,100
Total Expenditures	144,562,094	18,138,447	162,700,541
Revenues Over (less than) Expenditures	\$ (44,695,618)	\$ (7,793,447)	\$ (52,489,065)
EXPENDITURES BY OPERATING GROUP			
Board of Directors	\$ 229,861	\$ -	\$ 229,861
General Manager	1,336,767	-	1,336,767
Business Services (2)	18,367,470	4,190,247	22,557,717
Collection Services	8,931,936	-	8,931,936
Technical Services	7,724,288	-	7,724,288
Treatment & Disposal Services	21,293,508	-	21,293,508
Fabrication, Maint & Construction	11,917,980	-	11,917,980
Capital Projects (3)	70,605,900	13,948,200	84,554,100
Special Projects (3)	4,154,384	-	4,154,384
Total by Operating Group	\$ 144,562,094	\$ 18,138,447	\$ 162,700,541

(1) Includes funds 40, 45, 50, 60, and 70.

(2) Business Services handles debt payments and pension management.

(3) Capital Projects and Special Projects are managed by multiple departments on a collaborative basis.

REVENUES

	Actual *	Actual *	Budget	Projected	Proposed	Variance to	%
	FY 20/21	FY 21/22	FY 22/23	FY 22/23	Budget	22/23 Budget	Change
Revenues							
Sewer Service Charge	\$62,142,806	\$ 73,822,317	\$ 76,965,000	\$77,548,864	\$ 83,600,000	\$ 6,635,000	8.6%
Capacity Fees	9,358,209	11,145,152	7,467,000	8,701,518	8,420,000	953,000	12.8%
Work Group Revenues	1,315,019	1,307,546	1,234,500	1,362,903	1,353,500	119,000	9.6%
Interest	1,263,164	1,520,644	1,531,000	5,712,990	4,530,000	2,999,000	195.9%
Other Revenues	17,720	1,607,370	-	40,887	11,276	11,276	-
Net Loan Proceeds	-	110,317,768	-	-	-	-	-
SRF Funds Draw Down (Standby Power)	-	-	-	-	12,296,700	12,296,700	-
Total Revenues	\$74,096,918	\$ 199,720,798	\$ 87,197,500	\$93,367,162	\$ 110,211,476	\$ 23,013,976	26.4%

* Actual numbers based on modified accrual basis to reflect budget accounting.

Sewer Service Charges - The principal revenue source for the Sewer Service Fund is the annual Sewer Service Charges (SSC), which are projected to increase over the prior year budget by \$6,635,000. Single Family Dwelling (SFD) rates will increase from \$530.21 in FY 2023 to \$569.97 in FY 2024. Similarly, the annual Multi-family Dwelling rate will increase from \$467.24 in FY 2023 to \$502.28 in FY 2024. Residential rates account for approximately 74% of total sewer service charge revenues. For non-residential customers, rates are calculated annually using flow based on water usage and sewage strength.

The District collects 97% of the sewer service charge revenue on the Teeter plan through the Alameda County property tax bill.

Capacity Fees - The revenue source for the Capacity Fund is Capacity Fees, which are expected to increase by \$953,000 or 12.8% from the prior year's budget. These revenues vary depending on development in the service area. These fees are collected in accordance with the provisions of California Assembly Bill (AB) 1600 and are intended to mitigate the impacts of new developments. In the case of the District, these fees are collected from new developments as a requirement of connecting to the sewer system. As such, they can only be used for capital projects that preserve or increase the system's capacity.

Work Group Revenues - These revenues consist of field inspection fees, plan check fees, permits, external work orders, and services provided under contract to the City of Fremont's Urban Runoff program. Because these items tend to vary based on external demands, anticipated revenues are typically estimated in a conservative manner. For FY 2024 the total of all of these revenues are expected to increase \$119,000 or 9.6% compared to the prior year's budget.

Interest Revenues - Investment earnings are expected to increase by \$2,999,000 or 195.9% to the prior year's budget. This increase reflects the significant increase in interest rates that have increased the District's returns on investments and deposits.

SRF Loan Proceeds – The District expects to draw down \$12,296,700 in previously approved State Revolving Funds (SRF) to pay FY 2024 project expenditures for the Standby Power Generation System project.

EXPENDITURES

ALL FUNDS SUMMARY							
	Actual *	Actual *	Budget	Projected	Proposed	Variance to	%
	FY 20/21	FY 21/22	FY 22/23	FY 22/23	Budget	22/23 Budget	Change
Expenditures by Type							
Operating	\$42,762,626	\$ 45,075,325	\$ 50,622,850	\$ 49,472,794	\$ 55,195,877	\$ 4,573,027	9.0%
Internal Service (1)	2,010,132	5,113,529	6,178,500	2,683,662	9,662,100	3,483,600	56.4%
Debt Service	4,387,915	7,231,990	9,017,480	8,981,016	9,134,080	116,600	1.3%
Special Projects	714,462	1,002,174	3,238,000	1,084,742	4,154,384	916,384	28.3%
Capital Projects	33,118,927	26,561,708	68,830,200	65,653,064	84,554,100	15,723,900	22.8%
Total Expenditures	82,994,062	84,984,726	137,887,030	127,875,279	162,700,541	24,813,511	18.0%
Revenues Over (under) Expenditures	\$ (8,897,144)	\$ 114,736,071	\$ (50,689,530)	\$ (34,508,117)	\$ (52,489,065)	\$ (1,799,535)	3.6%

EXPENDITURES BY OPERATING GROUP							
Board of Directors	\$ 141,163	\$ 146,070	\$ 189,942	\$ 169,045	\$ 229,861	\$ 39,919	21.0%
General Manager	991,836	1,044,864	1,522,281	1,320,704	1,336,767	(185,514)	-12.2%
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Collection Services	7,643,479	7,528,445	8,910,580	8,826,397	8,931,936	21,356	0.2%
Technical Services	6,771,336	6,578,316	7,361,274	7,381,721	7,724,288	363,014	4.9%
Treatment & Disposal Services	13,937,436	15,123,376	17,837,232	17,325,429	21,293,508	3,456,276	19.4%
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Capital Projects (3)	33,118,927	26,561,708	68,830,200	65,653,064	84,554,100	15,723,900	22.8%
Special Projects (3)	714,462	1,002,174	3,238,000	1,084,742	4,154,384	916,384	28.3%
Total by Operating Group	\$82,994,062	\$ 84,984,726	\$ 137,887,030	\$ 127,875,279	\$ 162,700,541	\$ 24,813,511	18.0%

* Actual numbers based on modified accrual basis to reflect budget accounting.

(1) Includes funds 40, 45, 50, 60, and 70.

(2) Business Services handles debt payments and pension management.

(3) Capital Projects and Special Projects are managed by multiple departments on a collaborative basis.

Overall, District expenditures are expected to increase by \$24,813,511 or 18.0%. The following pages discuss the significant change in expenditures for FY 2024, primarily due to increases in capital spending.

Operating Expenses

	Actual FY 20/21	Actual FY 21/22	Budget FY 22/23	Projected FY 22/23	Proposed Budget FY 23/24	Variance to 22/23 Budget	% Change
Salaries & Benefits							
Salaries	\$ 20,223,882	\$ 20,218,245	\$ 20,895,024	\$ 20,917,405	\$ 21,588,146	\$ 693,122	3.3%
Pension	5,679,202	6,290,913	7,477,754	7,477,754	7,750,977	273,223	3.7%
Health Care Benefits	3,127,675	3,157,951	4,091,352	4,091,352	4,231,292	139,940	3.4%
Workers Compensation	377,256	361,129	417,708	417,708	427,008	9,300	2.2%
Training	64,292	99,358	317,350	223,300	371,250	53,900	17.0%
Other	494,385	514,046	637,384	600,371	680,521	43,137	6.8%
Subtotal Salaries and Benefits	29,966,692	30,641,642	33,836,572	33,727,890	35,049,194	1,212,622	3.6%
Utilities	2,515,024	2,504,057	2,656,950	2,851,400	3,360,200	703,250	26.5%
Biosolids	1,055,800	1,248,141	1,450,000	1,377,800	1,588,000	138,000	9.5%
Supplies	1,710,078	2,177,299	2,314,610	2,226,419	2,398,540	83,930	3.6%
Chemicals	2,483,194	2,715,699	4,011,360	3,905,958	6,176,712	2,165,352	54.0%
Repair & Maintenance	3,490,397	3,553,463	3,830,498	3,266,292	4,279,871	449,373	11.7%
Other	1,541,441	2,235,024	2,522,860	2,117,035	2,343,360	(179,500)	-7.1%
Subtotal Other Operating	12,795,934	14,433,683	16,786,278	15,744,904	20,146,683	3,360,405	20.0%
Total Operating Expenditures	\$ 42,762,626	\$ 45,075,325	\$ 50,622,850	\$ 49,472,794	\$ 55,195,877	\$ 4,573,027	9.0%

Salaries and Benefits

District wide, personnel expenses are budgeted to increase \$1,212,622 or 3.6% over the prior year budget. The major items are discussed below:

- Salaries are budgeted to increase \$693,122 or 3.3%. The increase results from prior year wage agreements, classified scheduled step increases, and the addition of a Limited Duration Plant Operator 3 Trainee to assist with the impacts of the ETSU project on plant operations and the second position is a QA Chemist.
- Pension expenses are budgeted to increase of \$273,223 or 3.7% to the prior year budget based upon rates provided by CalPERS. The District prepays the annual Unfunded Actuarial Liability payment in July of each year, rather than paying in 12 monthly installments, generating an annual cost savings of \$153,000.
- Health Care Benefit costs will increase by \$139,940 or 3.4% over the prior year budget based on premium information provided by the District's health insurance provider.
- Workers' Compensation costs will increase \$9,300 or 2.2%. The District's experience modification (x-mod) factor decreased from .83 to .78. This reflects the significant efforts that have been undertaken by the District to not only maintain, but to improve safety awareness.

- Training will increase by \$53,900 or 17.0% which is largely due to the ending of Covid-19 restrictions which will allow District employees to resume participating in group training and conferences.
- Other salary and benefits costs will increase by \$43,137 or 6.8% to the prior year budget. Other salary and benefit costs consist of Medicare and unemployment taxes, membership fees and certain safety program expenditures.

Other Operating Expenditures

Other Operating expenses are budgeted, in total, to increase \$3,360,405 to the prior year budget. The major items are discussed below:

- Utilities are increasing \$703,250 or 26.5%. This reflects the across the board rate impacts being seen in utilities nationwide.
- Biosolids disposal is increasing \$138,000 or 9.5%.
- Supplies are increasing \$83,930 or 3.6%. Costs of supplies and operating parts have been impacted by recent inflationary pressures, resulting in increases in most categories across the District.
- Chemicals are budgeted to increase \$2,165,352 or 54.0%. The main increases are for Hypochlorite, Polymers and Hydrogen Peroxide. These chemicals are critical to the effective and reliable treatment of wastewater.
- Repair and Maintenance costs are increasing by \$449,373 or 11.7% compared to FY 2023. This account varies year over year depending on the anticipated need of plant and equipment maintenance, but also reflects the increase in costs of parts and materials.
- Other expenditures, which consists of rents, professional fees, permits, insurance costs and small asset purchases are budgeted to decrease \$179,500 or 7.1%.

INTERNAL FUNDS

Fund Description	Actual FY 20/21	Actual FY 21/22	Budget FY 22/23	Projected FY 22/23	Proposed Budget FY 23/24	Variance to 22/23 Budget	% Change
Other Post Employment Benefits - Fund 40	\$ 1,201,193	\$ 1,430,142	\$1,400,000	\$1,400,000	\$ 1,475,000	\$ 75,000	5.4%
115 Pension Trust - Fund 45	-	3,000,000	3,000,000	-	6,400,000	\$3,400,000	113.3%
Vehicles & Equip Replacement - Fund 50	144,181	-	171,000	176,662	187,300	16,300	9.5%
Information Systems Replacement - Fund 60	502,358	356,115	1,207,500	857,000	1,199,800	(7,700)	-0.6%
Plant and Pump Station Replacement - Fund 70	162,400	327,272	400,000	250,000	400,000	-	0.0%
Total	\$ 2,010,132	\$ 5,113,529	\$6,178,500	\$2,683,662	\$9,662,100	\$3,483,600	56.4%

The following two pages discuss the changes to internal funds shown above.

Other Post Employment Benefits (OPEB) and Pension 115 Expenditures	
115 Pension Trust Contribution	\$ 6,400,000
115 OPEB Retiree Medical Trust Contribution	900,000
Retiree Reimbursement	575,000
Total	\$ 7,875,000

OPEB expenditures for the District are increasing \$75,000 or 5.4% compared to the prior year. The total expenditure consists of two parts. The first is \$575,000 towards the District’s annual ongoing normal costs. The second is a planned \$900,000 contribution to the District’s 115 OPEB Trust. In 2021 the District adopted Pension and OPEB Policy 2095, which in part sets a goal of maintaining the funding percentage of the plan between 90% and 100%. These additional funds will work toward achieving that policy goal.

Fund 45, (115 Pension Trust), was established in FY 2022 to facilitate the policy discussed in the paragraph above. Similar to OPEB, the long term goal is to increase the percent funded of the District pension plan. Annually, the Board determines an amount to contribute into a qualified 115 Trust. This Trust accumulates funds, along with the related investment income, to be used for paying future qualified pension expenses. The goal of the 115 Trust is to pay off the District’s unfunded liabilities within 12 years.

During FY 2023, the Board directed to hold back the budgeted \$3.0 million trust contribution until FY 2024 when the investment environment is expected to improve based upon the best information available in June of 2023. The current budget anticipates a contribution of \$6.4 million to the Trust in FY 2024. This represents \$3.0 million from FY 2023, \$3.0 million budgeted in FY 2024, plus interest earned on those funds while held in the District’s accounts.

Renewal & Replacement - Vehicles and Equipment	
Vehicles	
(2) Pool Vehicles - Pick-up Trucks	\$ 162,300
TPO Cart	25,000
Equipment	
No Equipment in FY24	-
Total	\$ 187,300

For FY 2024 the District is planning on purchasing two pick-up trucks for \$162,300. One of these trucks was budgeted and ordered in FY 2023 but will not arrive until FY 2024. In addition, this budget line item includes \$25,000 for the purchase of an electric utility cart to be used at the plant property.

Renewal & Replacement - Information Systems	
Project/System	Amount
Small Equipment (Hardware, Switches, Routers, Computers)	\$ 585,300
SCADA HMI Upgrade	150,000
Permit Tracking System Replacement	100,000
Enterprise Content Management and Records Management Plan	75,000
GIS Improvement Project	65,000
Cyber Security Plan Update	50,000
NIST Projects	50,000
GIS Vertical Assets	30,000
CMMS Upgrade	30,000
Kronos Upgrade	29,500
Control Logging	20,000
HR Software Upgrade	15,000
Total	\$ 1,199,800

The schedule above details the budgeted expenditures for Information Systems. This list changes from year to year depending on the projects and equipment needs of the District.

Renewal & Replacement - Plant and Pump Station	
New Assets (EBDA Variable Frequency Drive Inverter, Spare Hydraulic Ram for Newark Pump Station (NPS), Blower Replacement, Generator Repair NPS, Building Mounted Gas Detector System Replacement in All Locations)	\$ 337,000
Unplanned Maintenance	63,000
Total	\$ 400,000

The schedule above details the budgeted expenditures for the Plant and Pump Stations. These expenditures are determined based on plant wide assessments conducted each year.

Debt	Status	FY Issued	Maturity	Payments FY Start	FY 23/24 Principal & Interest		
					Payment Fund 80	Payment Fund 90	Total Payment
2020A Revenue Bonds	Issued	19/20	2050	19/20	\$ 1,934,016	\$ 2,564,150	\$ 4,498,166
2021A Revenue Bonds	Issued	21/22	2051	21/22	2,937,294	1,581,620	4,518,914
					\$ 4,871,310	\$ 4,145,770	\$ 9,017,080

2020A Revenue Bonds – The District issued the 2020A revenue bonds in the amount of \$74 million dollars at an average interest rate of 2.30%. The issuance refinanced \$37 million dollars in previously issued higher interest rate debt, provided \$37 million dollars for capital construction projects, and saved the District’s ratepayers \$2.2 million dollars in future interest costs.

2021A Revenue Bonds – The District issued the 2021A revenue bonds in the amount of \$110 million dollars at an average interest rate of 2.02% to fund District capital construction projects.

Water Infrastructure Finance and Innovation Act (WIFIA) Loan – In the fall of 2021 the District received a \$249 million dollar WIFIA loan to fund a portion of the ETSU project. The District will have eight years to fully draw down the loan at which time the principal and any capitalized interest will begin repayment.

State Revolving Fund (SRF) Loan – During FY 2022 the District was approved for an SRF loan in the amount of \$33.5 million to fund the Standby Power Generation System Upgrade Project. Construction began in FY 2022 and is expected to be completed in FY 2025 with the loan repayment beginning upon completion.

SPECIAL PROJECT EXPENDITURES

DESCRIPTION	Adopted Budget FY23	Estimated Actual FY23	Estimated Carryover	New \$ (Provision)	Proposed Budget FY24
Administrative & Regulatory					
Anticipated Biosolids Coalition Membership Dues	\$ 17,000	\$ 17,000	\$ -	\$ -	\$ -
Anticipated Election Costs (181,798 Reg Voters at \$8 Per Voter)	-	-	-	1,454,384	1,454,384
GIS JPA	30,000	13,000	-	-	-
Property Acquisition	1,500,000	-	1,500,000	-	1,500,000
Public Information Program	65,000	65,000	-	-	-
Public Outreach Programs	125,000	110,000	-	-	-
Regional Purified Water Pilot Program Outreach	20,000	20,000	-	-	-
Subtotal Administrative & Regulatory	\$ 1,757,000	\$ 225,000	\$ 1,500,000	\$ 1,454,384	\$ 2,954,384
Studies & Other					
Alvarado Basin Capacity and Condition Assessment	\$ 55,000	\$ 40,000	\$ 15,000	\$ 350,000	\$ 365,000
Alvarado Sub-Surface Investigation (Groundwater Monitoring)	10,000	10,000	-	10,000	10,000
Co-Digestion Feasibility Study	-	-	-	125,000	125,000
Cogen Replacement and Ventilation Study	15,000	39,015	-	-	-
Control Box No. 1 Grit Removal Evaluation	150,000	-	150,000	-	150,000
Digester 8 Feasibility Study	65,000	98,042	-	-	-
Digester Efficiency Evaluation (Heat Loop and Gas Lance)	350,000	110,000	240,000	60,000	300,000
Energy Resiliency Study	205,000	173,525	-	-	-
Forcemain Condition Assessment	10,000	10,000	-	50,000	50,000
Forcemain Geotech Investigation at Alameda Creek	30,000	-	-	-	-
Headworks Degritting	90,000	90,000	-	-	-
Local Limits Study	65,000	45,000	-	-	-
Odor Control Alternatives Study	10,000	-	-	-	-
Plant Site Security Improvements	-	-	-	100,000	100,000
Project Cost Estimate Evaluation	150,000	-	100,000	-	100,000
Pump Station Asset Condition Assessment	75,000	83,920	-	-	-
Sea Level Rise Study Update	100,000	125,486	-	-	-
Solids Building Potable Water Conversion	70,000	-	-	-	-
Thermal Dryer Feasibility Study	31,000	34,754	-	-	-
Subtotal Studies & Other	\$ 1,481,000	\$ 859,742	\$ 505,000	\$ 695,000	\$ 1,200,000
Total Special Projects	\$ 3,238,000	\$ 1,084,742	\$ 2,005,000	\$ 2,149,384	\$ 4,154,384

The special projects fund accounts for expenditures that are outside the year over year operating costs of the District and also do not meet the definition of a capital project. Many of the items are assessments of plant and system conditions or feasibility studies for future capital projects. A discussion of some of the major items follows:

Property Acquisition - Each year the District sets aside funds for property acquisition should one or more properties of interest become available. The primary purpose of property acquisition is for future plant or pump station expansion.

Anticipated Election Costs – These funds represent the anticipated costs for an election in FY 2024.

Control Box No. 1 Grit Removal Evaluation - This study will evaluate technologies and modifications for Control Box No. 1 to facilitate a more efficient way to remove grit that is deposited inside the control box.

Digester Efficiency Evaluation (Heat Loop and Gas Lance) - This study will assess the existing primary digester heat loop system and evaluate improvements to the system to increase its reliability in providing heat to the primary digestion process. The study will also evaluate the implementation of a gas lance sludge mixing system, incorporated in Primary Digester No. 7, at Primary Digester Nos. 4, 5, and 6, and prepare cost estimates to modify the structural, mechanical, electrical, and instrumentation systems accordingly.

Co-Digestion Feasibility Study - This study will evaluate the feasibility of implementing co-digestion at the treatment plant that will include an assessment of the infrastructure and equipment that will be needed, available space, personnel support, and other operation and maintenance requirements.

Project Cost Estimate Evaluation – This study will evaluate the scope of some of the projects identified in the 20-year Capital Improvement Program at an high-level predesign phase and provide updated project budgets that are more in line with the current construction economy.

Plant Site Security Improvements – This project is part of an ongoing effort to enhance plant site security.

**Annual Contract Purchases of Supplies, Services and Projects Renewal/Replacement
Over \$100,000
for Fiscal Year 23/24**

	<i>Estimated Expenditure</i>
Supplies:	
Sodium Hypochlorite, 1-Year Contract	\$ 2,960,000
Polymer, Emulsion, 2-Year Contract with 3 Optional 1-Year Renewals	930,000
Ferrous Chloride, 1-Year Contract	750,000
Hydrogen Peroxide, 1-Year Contract	728,000
Polymer, Mannich, 2-Year Contract with 3 Optional 1-Year Renewals	250,000
Root Control	108,336
Total Supplies	\$ 5,726,336
Services:	
CalPERS Retirement	\$ 7,670,977
115 Pension Trust Contribution	6,400,000
Series 2021A - Annual Debt Service on Bonds	4,518,914
Series 2020A - Annual Debt Service on Bonds	4,498,166
CalPERS Medical	4,231,292
PG&E - Alvarado Site (\$2,500,000), Newark P.S. (\$265,000) and Irvington P.S. (\$150,000)	2,915,000
EBDA	2,004,931
Biosolids Contract	1,588,000
115 OPEB Retiree Medical Trust Contribution	900,000
Insurance (Property & Contents, Fleet, General Liability, Bonding)	874,470
OPEB Retiree Reimbursement	575,000
Gas Media, 2-Year Contract with 3 Optional 1-Year Renewals	312,712
DGS Natural Gas Service, PG&E Billed Through DGS	200,000
Newark P.S. Generator Repair	125,000
Insurance (Retro Workers' Comp)	114,950
Grit & Screening Disposal	100,000
Total Services	\$ 37,029,412
Information Systems Projects:	
HMI Upgrades Per Standards	150,000
Permit Tracking System (PTS) Replacement	100,000
Total Information Systems Projects	\$ 250,000

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FUND BALANCE



Structural Steel for the New Campus Building

Reserve/Allocation Balances	
Operating Cash Flow	\$ 27,597,939
Structural Renewal & Replacement	59,185,200
Emergency	8,750,000
Short Term Liquidity	5,000,000
Parity Debt	2,887,200
Risk Management	1,000,000
Industrial Customer Stabilization	1,400,000
EBDA Emergency	388,899
Total Restricted/Allocated Balances	\$ 106,209,238

Anticipated reserves balances at 06/30/24 listed above are discussed below:

Operating Cash Flow – Sewer Service Charge revenues are collected by the Alameda County Tax Collector’s Office and remitted to the District in two major installments in December and April of each year. For the District to pay its ongoing expenditures throughout the year, it reserves between three and six months (25-50%) of gross operating expenditures at the start of each fiscal year.

Structural Renewal & Replacement – To maintain the ability to renew and replace infrastructure, this reserve is funded on a forward looking process that is based on anticipated future capital project expenditures.

Emergency – In order to help mitigate the financial impacts of an emergency or catastrophic event, the District has an Emergency Reserve. Reserves will increase by \$750,000 annually until reaching 25% of the operating budget.

Short Term Liquidity – The District maintains a minimum amount of immediately available funds, to cover the rolling 6-month average monthly payroll, plus a rolling 6-month average of the monthly accounts payable.

Parity Debt Reserve- This fund was recently established to cover debt covenants associated with the Series 2020A bond issuance.

Risk Management - The District is a member of and purchases liability insurance from the California Sanitation Risk Management Association (CSRMA). The deductible of \$500,000 reduces the amount of premiums charged to the District. To account for an event that is either not covered by insurance or under the deductible amount, the District reserves two times the annual deductible amount, which is based on claims history.

Industrial Customer Stabilization - The District has several Significant Industrial Users (SIUs). This reserve allows the District to implement appropriate responses and actions should one or more of these SIUs significantly scale back or cease operations unexpectedly, resulting in a rapid loss of revenue to the District.

EBDA Emergency Reserve – In order to help mitigate the financial impacts of an emergency or catastrophic event, the East Bay Discharge Authority (EBDA), of which the District is a member, has established a policy to set aside \$1,250,000. The policy further stipulates that each member agency will set aside their proportionate share of the reserve in their financial statements. The District's share of the reserve is \$388,899.

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CAPITAL IMPROVEMENT PLAN



New Standby Power Building

Capital Improvement Plan

Capital improvements are construction or renovation activities that add value to the District's fixed assets (pipelines, buildings, facilities, and equipment) or significantly extend their useful life. Each year, the District reviews its 20 year Capital Improvement Program (CIP) based on factors such as growth, regulatory requirements, planning documents, and existing asset management needs. The rehabilitation, replacement, improvement, and expansion of the District's facilities continue to be the key drivers for the proposed Fiscal Year 2024 CIP. The District funds an extensive CIP plan that is designed to preserve, maintain, and enhance assets, meet regulatory requirements, accommodate the community's needs, and protect public health and the environment.

In the next 12 to 24 months the District expects to have over thirty-five individual capital projects underway with project total expenditures currently estimated at \$626 million dollars. The following pages provide a description of those projects followed by a breakout summary of the CIP projects for the next five years. The appendix contains a detailed summary of the entire 20 year CIP budget.

The following are some of the major design projects that are currently underway:

- WAS Thickeners
- Field Operations Building (Space Needs Assessment)
- ETSU Phase 1B and 1C
- Newark and Irvington PS Chemical
- Switchboard 3 and Motor Control Center 25
- Digester 6 and Secondary Digester 1 Condition Assessment and Rehabilitation

The following represent some of the significant projects that will be under construction:

- ETSU Phase 1A – Aeration Basins
- ETSU Phase 1A - Campus
- Plant Miscellaneous Improvements
- Standby Power Generation System Upgrade
- Digester 6 Cleaning
- Force Main Corrosion Repairs – Phase 4

The balance of this section of the budget provides a summary of the 20 year CIP budget. Documents include the 20 year forecast summary of CIP projects followed by a brief description of each project. The appendix contains a more detailed CIP project forecast showing projected spending for each of the years in the forecast.

UNION SANITARY DISTRICT CIP FY 24 to FY 43 - 20 YEAR FORECAST SUMMARY (in millions)

Project Name	% Fund 80	% Fund 90	Rank	Total Project Cost	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29 to FY 33	FY 34 to FY 38	FY 39 to FY 43	Total
Admin Facilities														
Additional CS (Vehicle) Storage	100%	0%	3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,823	\$ -	\$ -	\$ 1,823
Cathodic Protection Improvements	100%	0%	2	500	-	100	400	-	310	-	1,061	831	1,467	4,169
ETSU - 1A - Campus Building	100%	0%	1	90,526	20,674	37,000	32,852	-	-	-	-	-	-	69,852
Field Ops Bldg. Seismic Upgrade and Leak Repairs	100%	0%	1	5,798	-	134	535	3,590	1,539	-	-	-	-	5,798
FMC Storage	100%	0%	3	-	-	-	-	320	-	-	-	-	-	320
Plant Paving	100%	0%	3	-	-	-	-	-	-	750	400	600	400	2,150
Radio Repeater Antenna Replacement	100%	0%	2	-	-	-	-	-	-	-	150	-	-	150
Solar Panels/Inverters Replacement at Alvarado	50%	50%	3	-	-	-	-	-	-	-	-	394	-	394
Solar Panels/Inverters Replacement at Carport	50%	50%	2	-	-	-	100	-	-	-	670	-	278	1,048
Solar Panels/Inverters Replacement at Irvington	50%	50%	2	2,802	30	1,386	1,386	-	-	-	-	1,838	-	4,610
				99,626	20,704	38,620	35,273	3,910	1,849	750	4,104	3,663	2,145	90,314
Collection System														
Cast Iron/Pipe Lining	100%	0%	2	-	-	-	-	587	-	626	1,381	2,439	1,911	6,945
Central Avenue Sanitary Sewer Relocation	100%	0%	1	2,500	-	150	2,350	-	-	-	-	-	-	2,500
FY 23 Cast Iron/Piping Lining	100%	0%	2	550	-	520	30	-	-	-	-	-	-	550
Gravity Sewer Rehab/Replacement	100%	0%	2	2,158	-	216	1,942	-	1,883	-	6,441	5,046	8,910	24,437
RCP Sewer Rehab (Alvarado Basin)	100%	0%	1	-	-	-	200	2,200	2,500	-	-	-	-	4,900
RCP Sewer Rehab (Irvington Basin)	100%	0%	1	-	-	-	100	800	900	-	5,000	-	-	6,800
RCP Sewer Rehab (Newark Basin)	100%	0%	1	-	-	-	-	-	250	2,200	2,550	-	-	5,000
				5,208	-	886	4,622	3,587	5,533	2,826	15,372	7,485	10,822	51,133
Transport System														
Alameda Creek Crossing Lift Station	50%	50%	2	-	-	-	-	-	-	-	-	-	21,866	21,866
Cherry St. PS	0%	100%	1	250	150	100	-	-	-	-	-	-	-	100
Equalization Storage @ Newark	0%	100%	2	-	-	-	-	-	-	-	-	34,424	-	34,424
Forcemain Corrosion Repairs - Phase 3	100%	0%	1	1,438	1,383	55	-	-	-	-	-	-	-	55
Forcemain Corrosion Repairs - Phase 4	100%	0%	1	2,368	68	2,200	100	-	-	-	-	-	-	2,300
Forcemain Stabilization at Alameda Creek	100%	0%	2	-	-	100	-	-	-	-	-	-	-	100
Forcemain Rehabilitation	100%	0%	3	-	-	-	-	-	-	-	-	900	49,100	50,000
Irvington PS Pumps and VFDs	50%	50%	2	-	-	-	-	2,050	9,226	9,226	-	-	-	20,502
Irvington PS Rehabilitation	50%	50%	3	-	-	-	-	-	-	-	-	11,792	-	11,792
Lift Station Rehabilitation	50%	50%	3	-	-	-	-	-	-	-	990	-	14,854	15,844
Newark PS/Irvington PS Portable VFD	50%	50%	2	248	30	218	-	-	-	-	-	-	-	218
Newark and Irvington PS Chemical System Improve	45%	55%	2	12,566	784	838	9,216	1,728	-	-	-	-	-	11,782
Newark PS Pumps and VFDs	50%	50%	2	-	-	-	-	-	-	-	21,782	-	-	21,782
Newark PS Rehabilitation	50%	50%	3	-	-	-	-	-	-	-	-	5,510	4,508	10,018
Stevenson Blvd. Lift Station	0%	100%	2	3,000	-	100	200	1,350	1,350	-	-	-	-	3,000
Transport System Misc. Projects	100%	0%	3	-	-	-	-	250	250	250	1,250	1,250	1,250	4,500
				19,870	2,415	3,611	9,516	5,378	10,826	9,476	24,022	53,876	91,578	208,283
Treatment Plant														
Alvarado Influent PS Improvements	50%	50%	2	10,948	10,428	520	-	-	-	-	-	-	-	520
Alvarado Influent Valve Box Gate Valves 1-2	100%	0%	2	550	-	50	500	-	-	-	-	-	-	550
Centrifuge Replacement	50%	50%	2	-	-	-	-	1,166	2,650	10,342	5,170	-	-	19,328
Centrifuge System Equipment Replacement	100%	0%	2	-	-	-	-	927	1,263	7,666	4,472	-	-	14,328
Cogen Engine No. 1 60K Block Replacement	50%	50%	1	-	-	-	800	-	-	-	1,050	-	1,350	3,200
Cogen Engine No. 2 60K Block Replacement	50%	50%	1	750	-	750	-	-	-	-	950	1,250	-	2,950

UNION SANITARY DISTRICT CIP FY 24 to FY 43 - 20 YEAR FORECAST SUMMARY (in millions)

Project Name	% Fund	% Fund	Rank	Total Project Cost	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 34	FY 39	Total
	80	90									to FY 33	to FY 38	to FY 43	
Cogen Retrofit	50%	50%	2	-	-	-	-	-	-	-	3,002	-	-	3,002
Control Box No. 1 Improvements	100%	0%	2	-	-	-	-	-	622	4,425	1,896	-	-	6,943
Degritter Building Roof (Seismic) Replacement	100%	0%	2	-	-	-	-	-	-	-	-	6,614	-	6,614
Degritting at Headworks and Improvements	50%	50%	2	-	-	-	-	-	-	-	3,748	43,568	-	47,316
Diffuser Replacement	100%	0%	3	-	-	-	-	-	-	-	-	2,092	-	2,092
Digester Additional Capacity	0%	100%	3	-	-	-	-	-	-	-	-	-	-	-
Digester No. 1 Insp & Rehab	100%	0%	2	-	-	-	-	358	1,998	1,332	-	732	5,992	10,412
Digester No. 2 Insp & Rehab	100%	0%	2	-	-	-	-	-	-	-	-	6,106	-	6,106
Digester No. 3 Insp & Rehab	100%	0%	2	-	-	-	-	-	-	-	3,532	2,007	-	5,539
Digester No. 4 Insp & Rehab	100%	0%	2	-	-	-	-	430	2,398	1,599	-	740	7,112	12,279
Digester No. 5 Insp & Rehab	100%	0%	2	-	-	-	-	-	-	-	5,025	-	5,863	10,888
Digester No. 6 Insp & Rehab	100%	0%	1	7,657	160	668	4,781	2,049	-	-	5,114	4,109	-	16,720
Digester No. 7 Insp & Rehab	100%	0%	3	-	-	-	-	-	-	-	-	14,232	-	14,232
Digester No. 7	0%	100%	1	28,643	28,443	200	-	-	-	-	-	-	-	200
ETSU - 1A - Aeration Basin Modifications	60%	40%	1	107,806	33,432	10,000	34,302	30,072	-	-	-	-	-	74,374
ETSU - 1A - Aeration Basin No. 8	40%	60%	1	18,722	3,443	8,000	7,279	-	-	-	-	-	-	15,279
ETSU - 1A - Aeration Internal Lift Pumps	60%	40%	1	4,050	150	2,000	1,900	-	-	-	-	-	-	3,900
ETSU - 1A - Blower 7-10 Replacement	60%	40%	1	4,580	3,113	1,000	467	-	-	-	-	-	-	1,467
ETSU - 1A - Plant 12kV Switchgear (SWGR-SE)	100%	0%	1	9,329	1,398	2,000	5,931	-	-	-	-	-	-	7,931
ETSU - 1A - Site Drainage Improvements	50%	50%	1	6,614	422	4,000	2,192	-	-	-	-	-	-	6,192
ETSU - 1B - Secondary Clarifiers	60%	40%	1	150,518	3,727	3,000	14,800	66,000	47,577	15,414	-	-	-	146,791
ETSU - 1B - Switchboard 4 Replacement	60%	40%	1	1,990	-	-	600	1,390	-	-	-	-	-	1,990
ETSU - 1B - Effluent Facilities	60%	40%	1	48,239	-	-	9,862	16,100	14,200	8,077	-	-	-	48,239
ETSU - 1C - Plant Equalization Storage	25%	75%	1	39,618	-	-	-	1,200	1,800	31,418	5,200	-	-	39,618
ETSU - 2 - Nutrient Removal (Level 2 Year-round)	50%	50%	3	-	-	-	-	-	-	-	-	5,548	265,120	270,668
Flares Replacement	100%	0%	2	-	-	-	-	753	4,357	1,867	-	-	-	6,978
MCC Replacement	100%	0%	2	-	-	-	-	-	-	50	491	-	-	541
Miscellaneous Improvements	100%	0%	2	7,089	589	3,500	3,000	-	-	-	-	-	-	6,500
Odor Scrubber Replacements (HW & West PCs)	100%	0%	2	-	-	-	428	1,767	7,528	10,540	-	-	-	20,263
Odor Scrubber Replacements (East PCs)	100%	0%	2	-	-	-	-	-	-	255	12,532	-	-	12,787
Odor Scrubber System Improvements	100%	0%	2	-	-	-	-	-	-	-	11,673	20,029	6,326	38,028
Plant 1 and 2 Water System Improvements	100%	0%	2	-	-	-	-	105	1,069	-	-	-	-	1,174
Plant 5kV Switchgear	100%	0%	2	-	-	-	392	2,803	1,201	-	-	-	-	4,395
Plant 12kV Switchgear	100%	0%	2	-	-	-	1,068	4,722	4,722	-	-	-	-	10,512
Plant Additional Power Source	50%	50%	3	-	-	-	-	-	-	-	-	4,500	5,500	10,000
Plant Asset Condition Assessment R&R	100%	0%	2	-	-	-	4,934	497	-	979	17,046	3,697	54,497	81,650
Plant Fiber Optic Network	50%	50%	2	-	-	-	-	-	-	-	1,800	800	-	2,600
Plant Mechanical and Electrical Projects	100%	0%	2	-	-	-	-	380	500	500	2,500	2,500	2,500	8,880
PLC Replacement	100%	0%	2	250	-	250	-	-	-	300	350	400	450	1,750
Primary Clarifier (1 - 4) Seismic Upgrade	100%	0%	1	-	-	-	134	556	2,367	3,314	-	-	-	6,371
Primary Clarifier Rehab (5-6)	75%	25%	2	-	-	-	-	-	-	686	33,694	-	-	34,380
Reclaimed Water	100%	0%	3	-	-	-	-	-	-	-	-	-	-	-
Secondary Digester No. 1 Insp & Rehab	100%	0%	1	1,209	25	130	702	351	-	-	-	5,231	-	6,415
Secondary Digester No. 2 Insp & Rehab	100%	0%	3	-	-	-	-	367	3,413	-	-	5,581	-	9,361
Seismic Retrofit of Conc. Structures	100%	0%	2	-	-	-	-	300	-	300	600	900	600	2,700
Standby Power Generation System Upgrade	100%	0%	1	27,754	11,006	13,663	1,985	1,100	-	-	-	-	-	16,748
Standby Power Generator No. 4	0%	100%	3	-	-	-	-	-	-	-	-	23,971	-	23,971

UNION SANITARY DISTRICT CIP FY 24 to FY 43 - 20 YEAR FORECAST SUMMARY (in millions)

Project Name	% Fund 80	% Fund 90	Rank	Total Project Cost	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29 to FY 33	FY 34 to FY 38	FY 39 to FY 43	Total
Switchboard 3 and MCC 25 Replacement	100%	0%	2	2,690	105	851	1,734	-	-	-	-	-	-	2,585
Thickeners 1 and 2 Rehabilitation	100%	0%	2	-	-	-	221	1,783	764	-	-	-	-	2,768
Thickeners 3 and 4 Rehabilitation	100%	0%	3	-	-	-	-	-	-	-	-	3,708	-	3,708
WAS Thickeners	100%	0%	1	22,442	1,312	250	6,315	8,250	6,315	-	-	-	-	21,130
				\$ 501,448	\$ 97,753	\$ 50,832	\$ 104,327	\$ 143,426	\$ 104,745	\$ 99,065	\$ 119,845	\$ 158,315	\$ 355,310	\$ 1,135,863

Total Administrative	\$ 99,626	\$ 20,704	\$ 38,620	\$ 35,273	\$ 3,910	\$ 1,849	\$ 750	\$ 4,104	\$ 3,663	\$ 2,145	\$ 90,314
Total Collection System	5,208	-	886	4,622	3,587	5,533	2,826	15,372	7,485	10,822	51,133
Total Transport	19,870	2,415	3,611	9,516	5,378	10,826	9,476	24,022	53,876	91,578	208,283
Total Treatment Plant	501,448	97,753	50,832	104,327	143,426	104,745	99,065	119,845	158,315	355,310	1,135,863
Grand Total	\$ 626,152	\$ 120,872	\$ 93,949	\$ 153,738	\$ 156,300	\$ 122,952	\$ 112,117	\$ 163,343	\$ 223,339	\$ 459,855	\$ 1,485,593
Repair & Replacement (Fund 800) Total	\$ 408,847	\$ 68,158	\$ 78,451	\$ 117,090	\$ 106,067	\$ 89,603	\$ 69,201	\$ 131,438	\$ 127,344	\$ 303,117	\$ 1,022,313
Capacity (Fund 900) Totals	217,305	52,714	15,498	36,648	50,233	33,349	42,915	31,905	95,995	156,738	463,280
	\$ 626,152	\$ 120,872	\$ 93,949	\$ 153,738	\$ 156,300	\$ 122,952	\$ 112,117	\$ 163,343	\$ 223,339	\$ 459,855	\$ 1,485,593
Repair & Replacement (Fund 800) Total - 90% to FY 24 Budget			\$ 70,606								
Capacity (Fund 900) Totals - 90% to FY 24 Budget			13,948								
			\$ 84,554								

Priority 1 Administrative	\$ 96,324	\$ 20,674	\$ 37,134	\$ 33,387	\$ 3,590	\$ 1,539	\$ -	\$ -	\$ -	\$ -	\$ 75,650
Priority 1 Collection System	2,500	-	150	2,650	3,000	3,650	2,200	7,550	-	-	19,200
Priority 1 Transport	4,056	1,601	2,355	100	-	-	-	-	-	-	2,455
Priority 1 Treatment & Disposal	479,921	86,631	45,661	92,051	127,068	72,259	58,223	12,314	10,590	1,350	419,515
Total Priority 1	582,801	108,906	85,300	128,188	133,658	77,448	60,423	19,864	10,590	1,350	516,820
Priority 2 Administrative	3,302	30	1,486	1,886	-	310	-	1,881	2,669	1,745	9,977
Priority 2 Collection System	2,708	-	736	1,972	587	1,883	626	7,822	7,485	10,822	31,933
Priority 2 Transport	15,814	814	1,256	9,416	5,128	10,576	9,226	21,782	34,424	21,866	113,674
Priority 2 Treatment & Disposal	21,527	11,122	5,171	12,277	15,991	29,072	40,841	107,531	88,093	83,340	382,316
Total Priority 2	43,351	11,966	8,649	25,551	21,706	41,841	50,694	139,016	132,671	117,773	537,900
Priority 3 Administrative	-	-	-	-	320	-	750	2,223	994	400	4,687
Priority 3 Collection System	-	-	-	-	-	-	-	-	-	-	-
Priority 3 Transport	-	-	-	-	250	250	250	2,240	19,452	69,712	92,154
Priority 3 Treatment & Disposal	-	-	-	-	367	3,413	-	-	59,632	270,620	334,032
Total Priority 3	-	-	-	-	937	3,663	1,000	4,463	80,078	340,732	430,873
Grand Total	\$ 626,152	\$ 120,872	\$ 93,949	\$ 153,738	\$ 156,300	\$ 122,952	\$ 112,117	\$ 163,343	\$ 223,339	\$ 459,855	\$ 1,485,593

CIP Projects Description

Project Name	Project Description
Additional CS (Vehicle) Storage	This project will provide additional vehicle storage for the Collection Services Work Group.
Cathodic Protection Improvements	The Cathodic Protection Improvements project will replace the existing cathodic protection systems at the Plant, pump stations, and force mains. The purpose of the cathodic protection systems is to prevent the corrosion of buried steel, ductile iron, and cast iron pipelines, fittings, and other structures. District staff surveys and tests all of the cathodic protection systems annually and will hire a consultant to determine if any of the systems need to be replaced.
ETSU - 1A - Campus Building	This project will replace the Operating & Administration, Control, and Facilities maintenance buildings with one combined campus building.
Field Ops Bldg. Seismic Upgrade and Leak Repairs	This project will include seismic retrofits, leak repairs, and internal floor plan updating to the Field Operations Building.
FMC Storage	This project will provide equipment and materials storage for the FMC Work Group.
Plant Paving	The Plant Paving project will repair and/or replace the asphalt pavement at the Plant. This project will be based on the condition of the existing asphalt pavement and in coordination with other construction projects. District staff can hire a consultant to conduct a condition assessment of the existing asphalt pavement every 5 to 10 years to determine the remaining useful life and recommend a repair/replacement schedule.
Radio Repeater Antenna Replacement	This project will replace the District's radio repeater antenna located on Mt. Allison in Fremont, CA.
Solar Panels/Inverters Replacement at Alvarado	This project will replace the solar panels and/or power inverters for the future photovoltaic system(s) (other than those at the Carport) that are yet to be constructed at the Plant. The schedule of replacement is based on a 20-year useful life for the solar panels and a 10-year useful life for the power inverters.
Solar Panels/Inverters Replacement at Carport	This project will replace the solar panels and/or power inverters of the Solar Carport System located at the Plant. The schedule of replacement is based on a 20-year useful life for the solar panels and a 10-year useful life for the power inverters.
Solar Panels/Inverters Replacement at Irvington	This project will replace the solar panels and power inverters for the photovoltaic system located at the Irvington Pump Station. The schedule of replacement is based on a 20-year useful life for the solar panels and a 10-year useful life for the power inverters.
Cast Iron/Pipe Lining	This project will install cured-in-place pipe (CIPP) inside existing aged cast iron sewer mains without trenching. District staff will review the CCTV inspection of the sewer mains and identify the mains that are candidates for CIPP rehabilitation. This includes budgets for multiple phases of work.
Central Avenue Sanitary Sewer Relocation	This project will relocate an existing sewer main on Central Avenue in the City of Newark to accommodate the City's plans to construct an overpass above the railroad crossing.
FY 2023 Cast Iron/Piping Lining	The FY 2023 Cast Iron/Piping Lining Project is the next project that will install cured-in-place pipe (CIPP) inside existing aged cast iron sewer mains. District staff will design the project in 2022 with construction anticipated to begin by early 2023.

Gravity Sewer Rehab/Replacement	This project will rehabilitate and/or replace existing deteriorated sewer mains by open cut trenching. District staff will review the CCTV inspection of the sewer mains and identify the mains that are candidates for rehabilitation/replacement by the open cut trenching method. This includes budgets for multiple phases of work. It is currently anticipated the FY 2024 Gravity Sewer Rehabilitation/Replacement Project will begin design in FY 2024 and be constructed in FY 2025.
RCP Sewer Rehab (Alvarado Basin)	This project will rehabilitate deteriorated sewer trunk mains located in the Alvarado Basin that are primarily reinforced concrete pipe (RCP) by the CIPP method. The project timing will correspond with the completion of the Alvarado Basin Capacity and Condition Assessment.
RCP Sewer Rehab (Irvington Basin)	The construction of the Irvington Basin Reinforced Concrete Pipe Rehabilitation Project will be completed in FY 2023 with retention release in FY 2024. Some of the project scope was postponed to a later project due to the challenging bypass piping setup that would be needed. This other scope could be combined with any recommended rehabilitation from the Alvarado Basin Capacity and Condition Assessment.
RCP Sewer Rehab (Newark Basin)	This project will rehabilitate deteriorated sewer trunk mains located in the Newark Basin that are primarily reinforced concrete pipe (RCP) by the CIPP method. The project timing will correspond with the completion of the Newark Basin Capacity and Condition Assessment.
Alameda Creek Crossing Lift Station	This project will construct a new lift station south of the Alameda Creek (near Paseo Padre Parkway and Ardenwood Boulevard) to transport wastewater from south to north over the Alameda Creek crossing on Paseo Padre Parkway.
Cherry St PS	This project will include electrical improvements to the Cherry Street Pump Station.
Equalization @ Newark	This project will construct equalization storage at the Newark Pump Station.
Forcemain Corrosion Repairs - Phase 3	The Force Main Corrosion Repairs Project - Phase 3 will repair or replace corroded steel fittings, pipes, and valves in the manholes along the west force main between Irvington Pump Station and Newark Pump Station. It is currently anticipated the construction of this project will be completed in FY 2023 with retention release in FY 2024.
Forcemain Corrosion Repairs - Phase 4	This is the fourth of four phases to repair or replace corroded steel fittings, pipes, and valves in the manholes along the east force main between Irvington Pump Station and Newark Pump Station.
Forcemain Stabilization at Alameda Creek	This project will include improvements to protect the forcemain pipelines at the Alameda Creek crossing from damage during significant seismic events in the region. The improvements will allow USD to maintain operation of the pipelines.
Forcemain Rehabilitation	This project will install liners in the force mains when the reinforced concrete pipes show signs of corrosion and deterioration.
Irvington PS Pumps and VFDs	The scope of this project includes the replacement of the wastewater pumps, variable frequency drives, and backup generator at the Irvington Pump Station.
Irvington PS Rehabilitation	The scope of this project includes the replacement of major electrical equipment, fuel and hydropneumatic tank, and pumps/pipes/valves that serve the washdown booster pumps and equalization basin at Irvington Pump Station.
Lift Station Rehabilitation	The scope of this project includes rehabilitation/replacement of assets that are approaching the end of their useful lives within the next 10 years and performing arc flash study of all electrical equipment at Boyce Lift Station, Fremont Lift Station, and Paseo Padre Lift Station.

Newark PS/Irvington PS Portable VFD	This project will purchase a portable VFD that can be used at either Newark Pump Station or Irvington Pump Station if an existing VFD fail. The existing VFDs are obsolete as replacement parts are no longer available from the manufacturer.
Newark and Irvington PS Chemical System Improvements	This project will replace the odor control systems, chemical storage and pumping systems, and other miscellaneous work at Newark Pump Station and Irvington Pump Station.
Newark PS Pumps and VFDs	The scope of this project includes the replacement of the wastewater pumps, variable frequency drives, and backup generator at the Newark Pump Station.
Newark PS Rehabilitation	The scope of this project includes the replacement of major electrical equipment at the dry well and wet well, fuel tank and valve box rehabilitation at the Newark Pump Station.
Stevenson Blvd. Lift Station	The developer of the Sanctuary West development will design and construct the new Stevenson Blvd. Lift Station to replace Cherry Street Pump Station. The new station will handle the new flows from the Sanctuary West development, the current flows to Cherry Street Pump Station, and other future flows of the City of Newark's Area 4 as identified in their general plan.
Transport System Misc. Projects	These budget amounts are for making miscellaneous improvements to transport system, which includes the pump stations, lift stations, and force mains.
Alvarado Influent PS Improvements	This project will replace the wastewater pumps, variable frequency drives, piping, valves, electrical switchboard, and other miscellaneous improvements to the Alvarado Influent Pump Station.
Alvarado Influent Valve Box Gate Valves 1-2	This project will replace the force main knife gate valves at the Alvarado Influent Valve Box and the Headworks Valve Box.
Centrifuge Replacement	This project will replace the centrifuges in the Centrifuge Building.
Centrifuge System Equipment Replacement	This project will replace pumps, conveyors, piping, and electrical equipment in the Centrifuge Building.
Cogen Engine No. 1 60K Block Replacement	This project will replace the engine block after the current engine block on Cogen No. 1 has operated for 60,000 hours.
Cogen Engine No. 2 60K Block Replacement	This project will replace the engine block after the current engine block on Cogen No. 2 has operated for 60,000 hours.
Cogen Retrofit	This project will install Selective Catalytic Reduction or other required emissions control systems for the existing cogen units if the Bay Area Air Quality Management District's permit reduces the nitrogen oxide emissions limit.
Control Box No. 1 Improvements	This project will rehabilitate or replace structural and mechanical components at Control Box No. 1, Headworks Valve Box, Maintenance Shop Building chemical storage area, and Odor Control Building chemical storage area.
Degritter Building Roof (Seismic) Replacement	This project will replace the precast concrete roof panels of the Degritter Building to address seismic deficiencies identified in the 2016 Seismic Study.
Degritting at Headworks and Improvements	This project will construct new equipment to remove grit from the influent wastewater at the Headworks Building.

Diffuser Replacement	This project will replace the aeration diffusers in the aeration basins.
Digester Additional Capacity	This project will review the need to construct additional primary digesters before the plant's solids process capacity is exceeded.
Digester No. 1 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Primary Digester No. 1 and its associated equipment, piping, and valves.
Digester No. 2 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Primary Digester No. 2 and its associated equipment, piping, and valves.
Digester No. 3 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Primary Digester No. 3 and its associated equipment, piping, and valves.
Digester No. 4 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Primary Digester No. 4 and its associated equipment, piping, and valves.
Digester No. 5 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Primary Digester No. 5 and its associated equipment, piping, and valves.
Digester No. 6 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Primary Digester No. 6 and its associated equipment, piping, and valves.
Digester No. 7	This project will construct new Primary Digester No. 7, hot water boiler, and iron salt chemical storage and feed system.
Digester No. 7 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Primary Digester No. 7 and its associated equipment, piping, and valves.
ETSU - 1A - Aeration Basin Modifications	This project will modify Aeration Basins 1 through 7 to improve the plant's activated sludge system.
ETSU - 1A - Aeration Basin No. 8	This project will construct new Aeration Basin 8 to increase the plant's activated sludge system's capacity.
ETSU - 1A - Aeration Internal Lift Pumps	This project will replace the three carbon steel lift pumps at Lift Station 2.
ETSU - 1A - Blower 7-10 Replacement	This project will replace Blowers 7 through 10 with high speed aeration blowers.
ETSU - 1A - Plant 12kV Switchgear	This project will construct a new 12,000-volt utility switchgear located near the Veasy Street entrance.
ETSU - 1A - Site Drainage Improvements	This project will construct a new site drainage pump station located on the north side of the treatment plant property. This station will supplement the site drainage capacity of the existing Site Waste Pump Station.
ETSU - 1B - Effluent Facilities	This project will replace the chlorine contact tank, final effluent pump station, and reclaimed water pump station.
ETSU - 1B - Secondary Clarifiers	This project will construct four new secondary clarifiers.
ETSU - 1B - Switchboard 4 Replacement	This project will replace the 480-volt Switchboard 4.
ETSU - 1C - Plant Equalization Storage	This project will construct primary effluent equalization storage at the existing Secondary Clarifiers 1 through 4 structures.
ETSU - 2 - Nutrient Removal (Level 2 Year-round)	This project will design and construct Phase 2 of the Enhanced Treatment and Site Upgrade Program's projects to provide nutrient removal that meets future nutrient removal limits from the RWQCB.

Flares Replacement	This project will replace the digester gas flare system when required by future regulations.
MCC Replacement	This project will replace electrical motor control centers that have reached the end of their useful life.
Miscellaneous Improvements	This project will rehabilitate or replace miscellaneous structural and electrical improvements at various facilities at the plant.
Odor Scrubber Replacements (HW & West PCs)	This project will replace the existing odor control system at the Headworks Building and Primary Clarifiers 1-4 Building.
Odor Scrubber Replacements (East PCs)	This project will replace the existing odor control system at the Primary Clarifiers 5-6 Building.
Odor Scrubber System Improvements	This project will replace the odor control systems at the Alvarado Influent Pump Station, Centrifuge Building, WAS Thickening Building, Gravity Thickeners, and Degritter Building.
Plant 1 and 2 Water System Improvements	This project will construct a booster pump station to improve the capacity and pressure of the plant's 1 and 2 water systems.
Plant 12kV Switchgear	This project will replace the plant's existing 12,000-Volt utility switchgear located in the Main Electrical Building.
Plant 5kV Switchgear	This project will replace the plant's 4,160-volt switchgear located in the Main Electrical Building.
Plant Additional Power Source	This is for a project to install a secondary electrical feed from PG&E to accommodate anticipated future higher power demand at the plant.
Plant Asset Condition Assessment R&R	These are for replacing equipment at the plant based on recommendations from the 2018 Plant Asset Condition Assessment Study, and any subsequent updates.
Plant Fiber Optic Network	These are for construction of the infrastructure for the plant's fiber optic communication system.
Plant Mechanical and Electrical Projects	These are for the mechanical and electrical assets at the plant.
PLC Replacement	These are to replace the processor modules in the plant's programmable logic controllers located at all process areas.
Primary Clarifier (1 - 4) Seismic Upgrade	This project will upgrade the Primary Clarifiers 1 through 4 Building's structure to address seismic deficiencies identified in the 2016 Seismic Study.
Primary Clarifier Rehab (5-6)	This project will replace the clarifier mechanisms, modify the ventilation system, and rehabilitate the structural components of the Primary Clarifiers 5 and 6 Building, including Sludge Pump Room 3.
Reclaimed Water	This is for the construction of a reclaimed water fill station and other reclaimed water projects that could be developed in the future.
Secondary Digester No. 1 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Secondary Digester No. 1 and its associated equipment, piping, and valves.
Secondary Digester No. 2 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Secondary Digester No. 2 and its associated equipment, piping, and valves.
Seismic Retrofit of Conc. Structures	These are for the seismic retrofit of concrete structures at the plant.

Standby Power Generation System Upgrade	This project will replace the plant's standby generators, Substation 2, and the Odor Control Building's switchgear.
Standby Power Generator No. 4	This project will install a fourth standby generator in the new Standby Power Building if the plant's power demand increases in the future.
Switchboard 3 and MCC 25 Replacement	This project will replace Switchboard 3 and Motor Control Center (MCC) 25 located in the Main Electrical Building.
Thickeners 1 and 2 Rehabilitation	This project will replace the thickener mechanism and rehabilitate the concrete at Thickeners 1 and 2.
Thickeners 3 and 4 Rehabilitation	This project will replace the thickener mechanism and rehabilitate the concrete at Thickeners 3 and 4.
WAS Thickeners	This project will replace the gravity belt thickeners, pumps, motor control center, and programmable logic controller in the WAS Thickener Building.

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ABOUT USD



Pouring Concrete for the New Campus Building

About USD

Union Sanitary District is a California Independent Special District. USD was formed in 1918 to protect public health and the environment by providing the services of collecting, treating, and disposing of wastewater from residences, businesses and industries. We're proud to deliver this very complex, highly regulated service to the communities we serve.

In the District's founding year of 1918, USD's boundaries encompassed 3,300 acres in what was known as Southern Alameda County. The area was primarily farm and ranch land well into the twentieth century, and septic tanks were typically used for wastewater disposal.

Today, USD's service area covers over 60 square miles (about 38,400 acres) and serves over 348,000 residents in the cities of Fremont, Newark, and Union City, with over 120,000 residential, commercial, and industrial connections. Total flow to the Alvarado Treatment Plant in Union City was over 8.1 billion gallons in 2022, and averages between 21 and 23 million gallons every day with a permitted capacity of up to 33 million gallons per day.

USD is a member of the East Bay Discharge Authority (EBDA). Founded in 1974, EBDA is a five-member Joint Powers Authority (JPA) formed to plan, design, construct, and operate regional facilities to collect, transport and discharge treated effluent to deep waters of San Francisco Bay. Treated effluent from the District's Alvarado Wastewater Treatment Plant is pumped to the EBDA System and discharged into the Bay southwest of Oakland International Airport. Frequent testing of the treated wastewater confirms compliance with regional permit requirements. The other member agencies are Castro Valley Sanitary District, Oro Loma Sanitary District, City of Hayward, and City of San Leandro.

The Communities We Serve

The District provides wastewater collection, treatment and disposal services to the residents and businesses of the cities of Fremont, Newark, and Union City, commonly referred to as the Tri-City Area, with a combined population of over 348,000. Information obtained from each city is presented below.

The City of Fremont

Located on the southeast side of the San Francisco Bay, Fremont is a city of approximately 230,000 people and 75,000 households, with an area of 92-square miles. Fremont remains the fourth most populous city in the Bay Area and California's 16th largest city. With its moderate climate and its proximity to major universities, shopping areas, recreation and cultural activities, employment centers, major airports, and the Bay Area Rapid Transit system, Fremont captures metropolitan living at its best.

Fremont is conveniently served by Interstates 680 and 880, as well as rail transport lines including Altamont Commuter Express (ACE), Amtrak Capitol Corridor, and the Bay Area Rapid Transit (BART)

system. Fremont also has easy access to the San Jose Airport, Oakland Airport, San Francisco Airport, and the Port of Oakland. Fremont is home to a broad variety of innovative firms including over 1,200 high tech, life science, and clean technology firms. The city has a broad range of quality, affordable business locations; a superior workforce; and a wide variety of tax benefits and incentive programs for businesses.

Fremont is one of the most ethnically and culturally diverse cities in the Bay Area. Residents are attracted to Fremont for its nationally recognized high-ranking public schools, its numerous well-kept parks, and a variety of recreational amenities, including beautiful Lake Elizabeth, Central Park, and Mission San José (California's 14th mission). Fremont is described as a wonderful community to live, work, and play.

The City of Newark

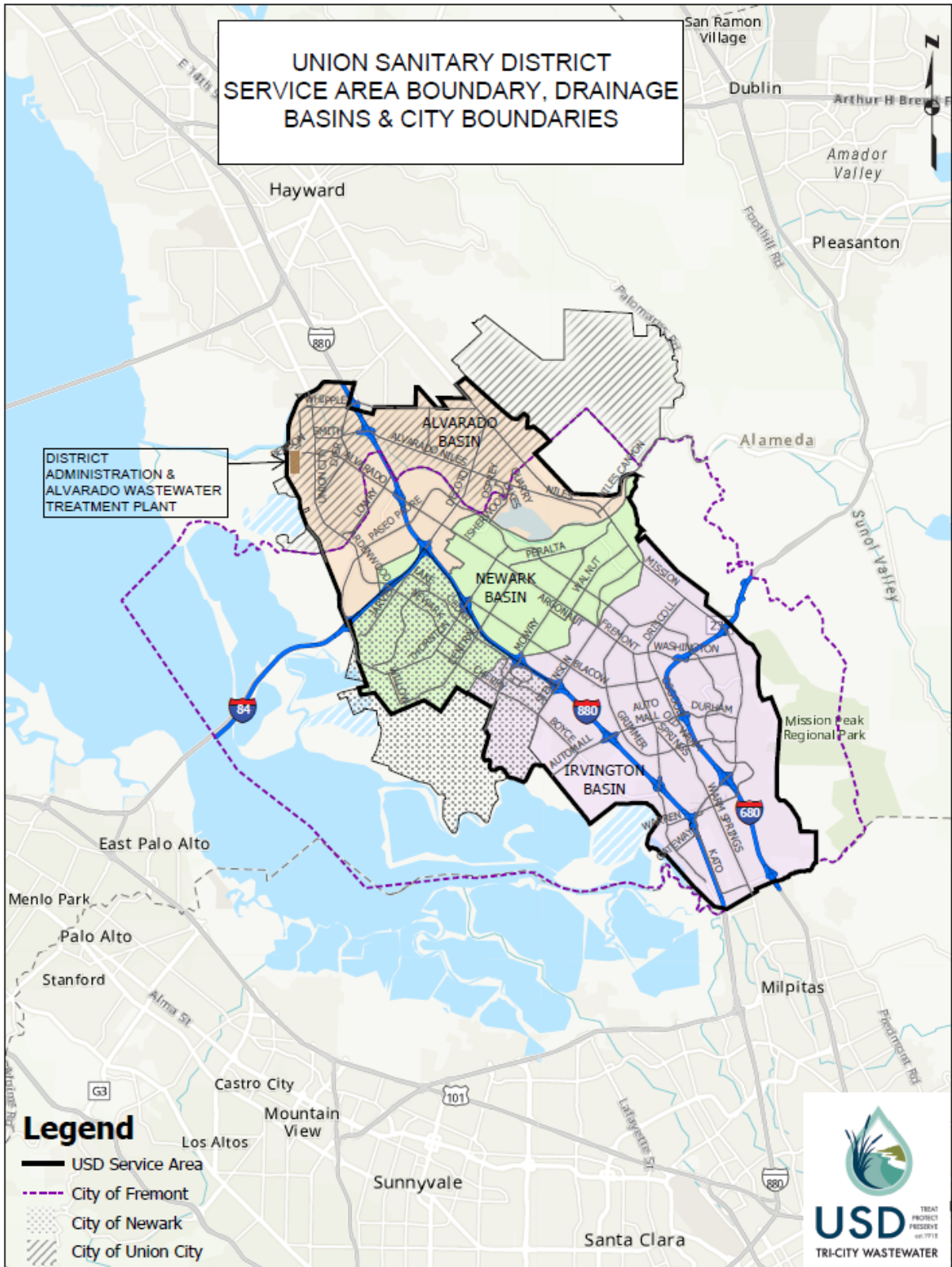
Newark has an area of 14 square miles, and a population of approximately 48,000. Newark was incorporated in 1955 and is located 35 miles south of San Francisco and next to many high-tech hubs, including easy access to highways 880, 580, 680, and the Dumbarton Corridor. This makes Newark an ideal location to live or do business. Newark has evolved throughout the years from its days enriched in agriculture, manufacturing, and railroad to today's expansion of high-tech, biotech, and the health sciences.

Although Newark has grown significantly, it still manages to keep a small, hometown community charm which is what citizens say they love about the city. The City of Newark has a wide variety of programs and services to meet the community's needs.

The City of Union City

Union City is 18 square miles in area, boasting a diverse and unified people, excellent educational institutions, unsurpassed quality of life, strong economy, and world-renowned location in the San Francisco Bay Area. Incorporated in 1959, the city proudly maintains a small-town feel despite being in the center of the Bay Area, with San Francisco and Silicon Valley just minutes away. Union City has grown into an ethnically diverse community of approximately 70,000 residents, and the highly regarded New Haven Unified School District serves about 13,000 K-12 students. The community offers a variety of housing, with affordable and upscale homes available in many charming neighborhoods throughout the city. The transit-oriented Station District, located around the Union City BART station, boasts housing and business development opportunities with easy, convenient access to major public transit running throughout the Bay Area. Union City also offers 33 wonderful parks, sports fields, community centers, and a variety of recreation programs and social services for residents of all ages.

SERVICE AREA MAP



BUDGET DOCUMENT & PROCESS



ETSU Aeration Basin Construction

BUDGET PROCESS

The fiscal year budget is one of the most important documents prepared by the District. Through the process of planning and preparing the budget, the District is given the opportunity to determine how best to utilize its resources for the coming fiscal year. The budget document also provides direction for management and staff on a number of fiscal issues.

Union Sanitary District adopts an annual budget. The budget document contains information on revenues and expenditure appropriations for the Fiscal Year beginning July 1 and ending June 30. In addition to the operating budget, the Board adopts an annual Capital Improvement Plan (CIP), which is part of a larger 20 year plan. These projects become an integral part of the proposed operating/capital budget.

The budget is prepared in accordance with fiscal policies/guidelines and objectives as established by the Board in Policy #2015. The time frames provided in the budget calendar reflect early involvement of District staff and the Board in review and discussion of policy direction, goals and objectives concurrent with development of financial projections and service level requirements. With this approach, the necessary components that guide the process are incorporated into the proposed budget prior to formal submission to the Board.

Key budget dates are shown below:

Date	Process
Early January 2023	Budget discussions begin with all departments including FY 2022/2023 midyear and year end projections
March 16, 2023	Midyear presentation to Board with discussions on FY 2023/2024 budget drivers
April 27, 2023	Budget workshop held with Board
May 22, 2023	Presentation of the FY 2023/2024 proposed budget to the Board
June 26, 2023	Consideration of the FY 2023/2024 final budget by the Board

BUDGET REPORTING

For budgetary reporting purposes, Union Sanitary District uses the modified accrual basis of accounting. Under the modified accrual basis of accounting, revenues are recognized when they become measurable and available. “Measurable” means the amount of the transaction can be determined and “available” means collectible within the current period or soon enough thereafter to be used to pay liabilities of the current period. Expenditures are recognized in the accounting period in which the liability is incurred. Non-cash expense items such as depreciation expense for fixed assets and accrued compensated absences are excluded from the budget. Principal payments for District debt are included in the budget.

The District operates under two funds for budgetary purposes. Those funds are:

Sewer Service Fund (fund 80) – This fund accounts for the general operations, maintenance, and administration of Union Sanitary District. For purposes of internal accounting only, the District maintains separate funds within the Sewer Service Fund to track revenue and expenditures as they relate to operations; special projects; Other Post-Employment Benefits (OPEB); 115 Pension Trust contributions; vehicle, equipment, and information systems acquisitions; and maintenance of plant, pump, and structural components.

Capacity Fund (fund 90) – This fund accounts for capacity related fees collected by the District and their related expenditures. Capacity fees are charged by the District to assure that development customers that connect to the system pay their proportional share of the sewer and treatment plant required to convey and treat their wastewater. Sewer capacity charges are governed by California Government Code Section 66013.

FINANCIAL STATEMENT REPORTING

The District operates as a proprietary fund-type and uses the modified accrual basis of accounting. All proprietary fund-types are accounted for on a flow of economic resources measurement focus. Under this measurement focus, all assets and liabilities associated with the operation of these funds are included on the statement of net position. Where appropriate, net total assets (i.e. fund equity) are segregated into contributed capital and retained earnings. Proprietary fund-type operating statements present increases (revenues) and decreases (expenses) in net position.

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OTHER INFORMATION

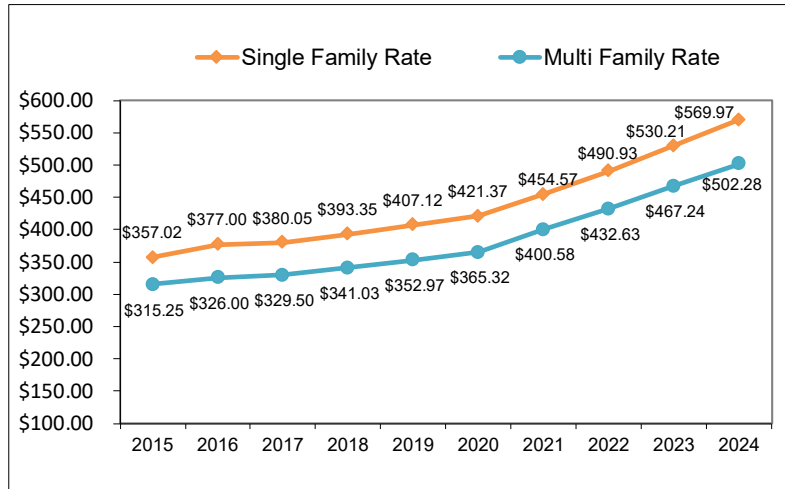


New Standby Power Building

UNION SANITARY DISTRICT
Current and Historical Fees
 As of June 30, 2024
 Last Ten Years

Sewer Service Charge Rates

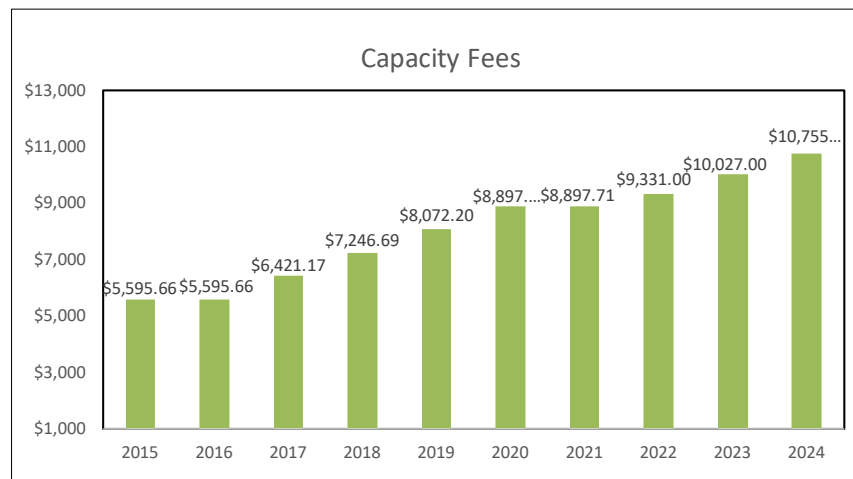
	Single Family Rate	Multi - Family Rate	Single Family Rate Percentage Change
FY 2024	\$569.97	\$502.28	7.5%
FY 2023	530.21	467.24	8.0%
FY 2022	490.93	432.63	8.0%
FY 2021	454.57	400.58	7.9%
FY 2020	421.37	365.32	3.5%
FY 2019	407.12	352.97	1.0%
FY 2018	393.35	341.03	3.5%
FY 2017	380.05	329.50	0.8%
FY 2016	377.00	326.00	5.6%
FY 2015	357.02	315.25	5.0%



The fees above are for Single and Multi-Family units. A property with multiple housing units such as an apartment complex is charged \$502.28 for each dwelling unit on the property. Fees for commercial and industrial customers are based on the volume and strength of the wastewater being treated.

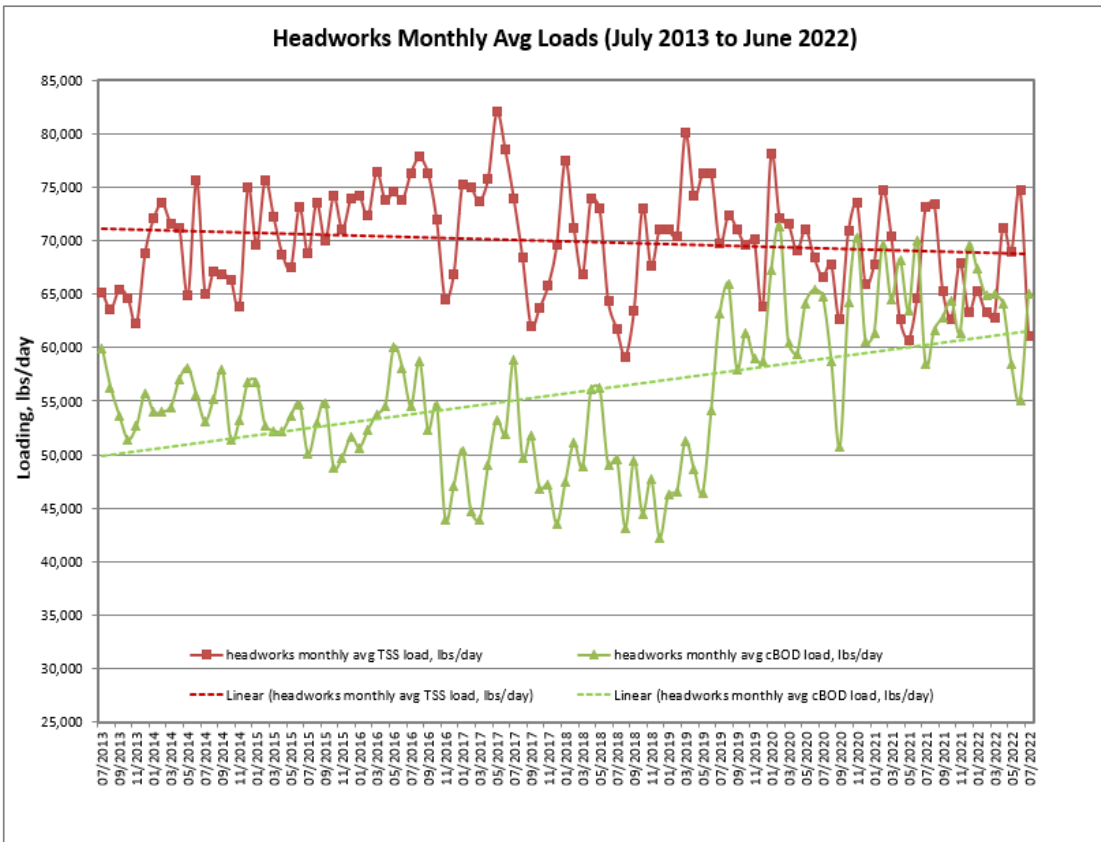
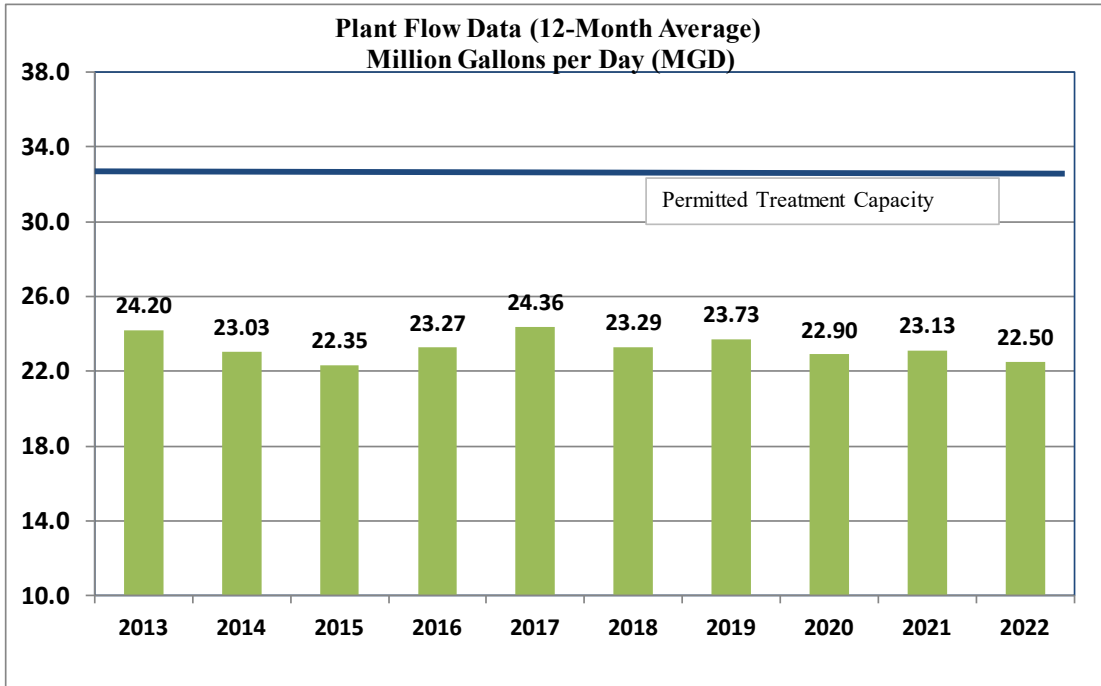
Capacity Fee Rates

	Capacity Fee	Percentage Change
FY 2024	\$10,755.00	7.3%
FY 2023	10,027.00	7.5%
FY 2022	9,331.00	4.9%
FY 2021	8,897.71	0.0%
FY 2020	8,897.71	10.2%
FY 2019	8,072.20	11.4%
FY 2018	7,246.69	12.9%
FY 2017	6,421.17	14.8%
FY 2016	5,595.66	0.0%
FY 2015	5,595.66	5.0%



The capacity fees shown are per dwelling unit. Other categories such as restaurants, warehouses, and mixed-use commercial facilities are based on square footage and other factors as per the Capacity Fee Ordinance.

UNION SANITARY DISTRICT
 Operating Indicators by Function/Program
 Average Daily Flow



Source: USD Treatment and Disposal Work Group

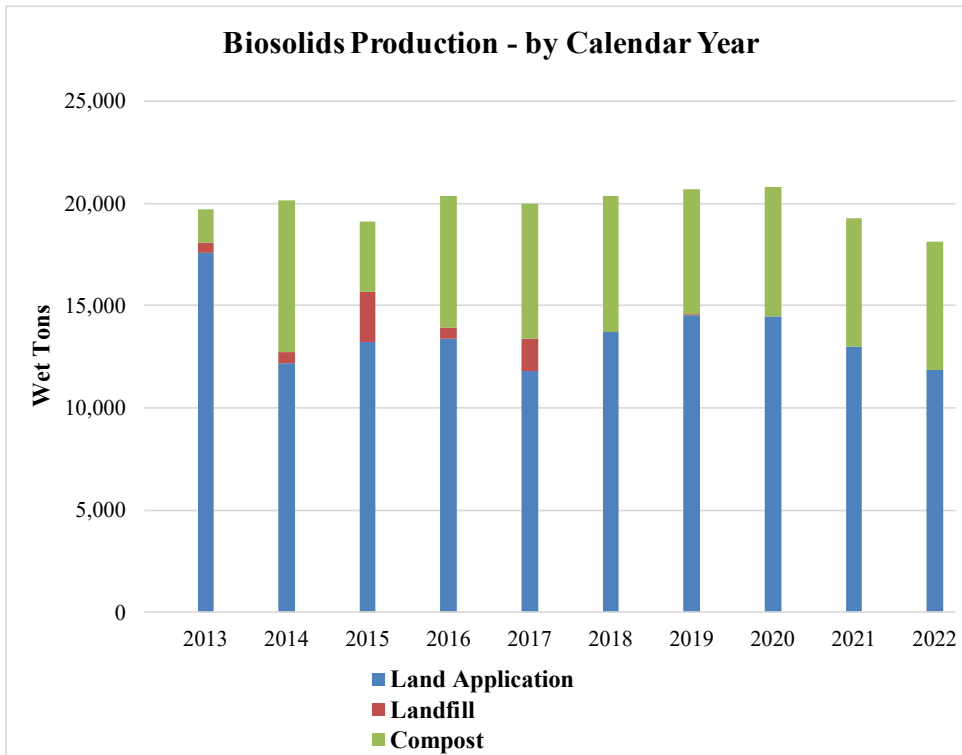
UNION SANITARY DISTRICT

Operating Indicators - Biosolids
Last Ten Calendar Years

Function/Program

Biosolids

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Land Application	17,597	12,212	13,212	13,395	11,784	13,733	14,529	14,452	12,995	11,847
Landfill	501	545	2,450	563	1,624	0	72	0	0	0
Compost	1,642	7,414	3,470	6,399	6,584	6,615	6,103	6,342	6,262	6,271
Total (in Wet Tons)	19,741	20,171	19,132	20,357	19,992	20,347	20,704	20,793	19,257	18,117



UNION SANITARY DISTRICT

Full-time Equivalent District Employees by Function/Program (as measured at June 30)
Last 10 Fiscal Years

Function/Program	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
System operations and maint (CS Support, FMC, T&D, Whse Engineering and construction (CIP, ETSU)	51.45	50.45	53.45	53.45	52.45	55.45	54.45	53.45	54.45	53.45
Collections System Maintenance (CS)	7.00	8.00	8.00	10.00	9.00	8.00	9.00	11.00	13.00	12.00
Office of the General Manager (GM)	24.00	23.00	23.00	25.00	25.00	25.00	25.00	26.00	25.00	23.00
Finance (FAST)	2.00	1.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Information systems (IT)	5.00	5.00	5.00	5.00	3.00	5.00	6.00	5.00	5.00	5.00
Admin department (Adm Specialist, Purchasing, non-HR OST)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Customer and community services (Rest of TS)	15.00	14.00	13.00	14.00	13.00	13.00	12.00	15.00	14.00	14.00
Human resources (HR)	19.00	19.00	18.00	20.00	20.00	21.00	21.00	20.00	20.00	20.00
	3.00	3.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Total # of Employees	131.45	128.45	131.45	136.45	131.45	136.45	136.45	139.45	140.45	136.45
Average years of service of employees as of June 30:	11.70	11.97	11.25	10.54	10.60	10.41	10.20	10.20	10.76	10.10

CIP = Capital Improvements Projects Team
ETSU = Enhanced Treatment & Site Upgrade
FAST = Finance & Acquisition Services Team
FMC = Fabrication, Maintenance and Construction
OST = Organizational Support Team
T&D = Treatment & Disposal Work Group
TS = Technical Services Work Group

UNION SANITARY DISTRICT
 Ten Principal Industrial Rate Payers by Levy
 June 30, 2022

Rate Payer	2021-22		
	Total Annual Billing	Rank	% of Total Annual Billings
Tesla	\$ 1,446,020	1	1.96%
Lam Research	300,980	2	0.41%
Western Digital	257,391	3	0.35%
Washington Hospital	204,834	4	0.28%
Boehringer Ingeheim	183,299	5	0.25%
Mission Linen Supply	182,382	6	0.25%
Safety-Kleen	176,505	7	0.24%
US Pipe	168,193	8	0.23%
Archstone Center Apartments	151,118	9	0.20%
Union Square Shopping Center	142,673	10	0.19%
Total annual billing largest ten:	<u>\$3,213,396</u>		<u>4.35%</u>
Total ALL annual billings	<u>\$73,822,317</u>		

Rate Payer	2020-21		
	Total Annual Billing	Rank	% of Total Annual Billings
Tesla	\$1,176,212	1	1.59%
Mission Linen Supply	243,523	2	0.33%
Western Digital	224,028	3	0.30%
Washington Hospital	213,400	4	0.29%
Ranch 99/Warm Springs Shopping Center	213,196	5	0.29%
Union Square Shopping Center	212,278	6	0.29%
Lam Research	204,684	7	0.28%
US Pipe	194,164	8	0.26%
Ranch 99/Newark	181,779	9	0.25%
Boehringer Ingeheim	168,826	10	0.23%
Total annual billing largest ten:	<u>\$3,032,089</u>		<u>4.11%</u>
Total ALL annual billings	<u>\$62,142,806</u>		

Rate Payer	2019-20		
	Total Annual Billing	Rank	% of Total Annual Billings
Tesla	\$1,381,023	1	2.22%
Washington Hospital	314,394	2	0.51%
US Pipe	244,663	3	0.39%
Western Digital	187,814	4	0.30%
Ranch 99/Warm Springs Shopping Center	161,740	5	0.26%
Union Square Shopping Center/ Market Place	161,271	6	0.26%
Lam Research	160,087	7	0.26%
Ranch 99/Newark	148,835	8	0.24%
Marriott Hotel	133,716	9	0.22%
Sterling Foods	127,508	10	0.21%
Total annual billing largest ten:	<u>\$3,021,050</u>		<u>4.86%</u>
Total ALL annual billings	<u>\$60,216,149</u>		

Rate Payer	2018-19		
	Total Annual Billing	Rank	% of Total Annual Billings
Tesla	\$1,228,862	1	2.04%
Washington Hospital	221,799	2	0.37%
US Pipe	216,296	3	0.36%
Western Digital	174,219	4	0.29%
Ranch 99/Warm Springs Shopping Center	157,421	5	0.26%
Ranch 99/Newark	152,401	6	0.25%
Marriott Hotel	141,572	7	0.24%
Union Square Shopping Center	138,482	8	0.23%
Lam Research	125,330	9	0.21%
Gateway Plaza Shopping Center	125,202	10	0.21%
Total annual billing largest ten:	<u>\$2,681,584</u>		<u>4.45%</u>
Total ALL annual billings	<u>\$57,330,651</u>		

Rate Payer	2017-18		
	Total Annual Billing	Rank	% of Total Annual Billings
Tesla	\$817,848	1	1.51%
Western Digital	141,806	2	0.26%
Solar City	172,276	3	0.32%
US Pipe	135,774	4	0.25%
Seagate Magnetics	156,718	5	0.29%
Lam Research	122,934	6	0.23%
Washington Hospital	173,057	7	0.32%
Kaiser Hospital	106,337	8	0.20%
Boehringer Ingeheim	87,678	9	0.16%
Seagate Technology #3	69,384	10	0.13%
Total annual billing largest ten:	<u>\$1,983,813</u>		<u>3.66%</u>
Total ALL annual billings	<u>\$54,260,096</u>		

Rate Payer	2016-17		
	Total Annual Billing	Rank	% of Total Annual Billings
Tesla	\$1,141,868	1	2.18%
Washington Hospital	206,132	2	0.39%
Western Digital	176,435	3	0.34%
Ranch 99/Warm Springs Shopping Center	161,772	4	0.31%
Marriott Hotel	142,229	5	0.27%
Ranch 99/Newark	133,807	6	0.26%
US Pipe	130,685	7	0.25%
Kaiser Hospital	125,907	8	0.24%
Gateway Plaza	124,269	9	0.24%
Pacific Commons (Area 4-Asian Pearl, Kinders)	119,920	10	0.23%
Total annual billing largest ten:	<u>\$2,463,022</u>		<u>4.70%</u>
Total ALL annual billings	<u>\$52,384,709</u>		

UNION SANITARY DISTRICT

Miscellaneous Statistics

As of June 30, 2022

Governing Body:	Elected 5-Member Board of Directors Fremont - 3 Members Newark - 1 Member Union City - 1 Member
Governmental Structure:	Established in 1918 and reorganized in 1923 under the Sanitary District Act
Staff:	136.45 full-time equivalent employees
CEO:	General Manager
CFO:	Business Services Manager
Authority:	California Health and Safety Code Section 4700 et. Seq.
Services:	Wastewater collection, treatment and disposal
Service Area:	60.2 square miles (Annexed areas - Fremont, Newark and Union City)
Total Population Served:	344,855
Number of Parcels	101,931 (91,095 Residential; 3,115 Non-Residential; 7,721 Other (vacant land))
Collection & Transport System:	Total miles of pipeline - 839, including the force main and all gravity sewers (including trunk mains) Number of pumping stations - 7 Pump Stations: Irvington, Newark, Alvarado Lift Stations: Fremont, Boyce, Paseo Padre, Cherry Street 17,300 manholes
Permitted Plant Treatment Capacity (ADWF)	33 million gallons per day (mgd)
Type of Treatment:	Secondary
Sewer Service Charge:	\$490.93 annually per single family residential dwelling unit

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APPENDIX



Easterly View from USD – San Francisco Bay and Estuary



Principal Officials

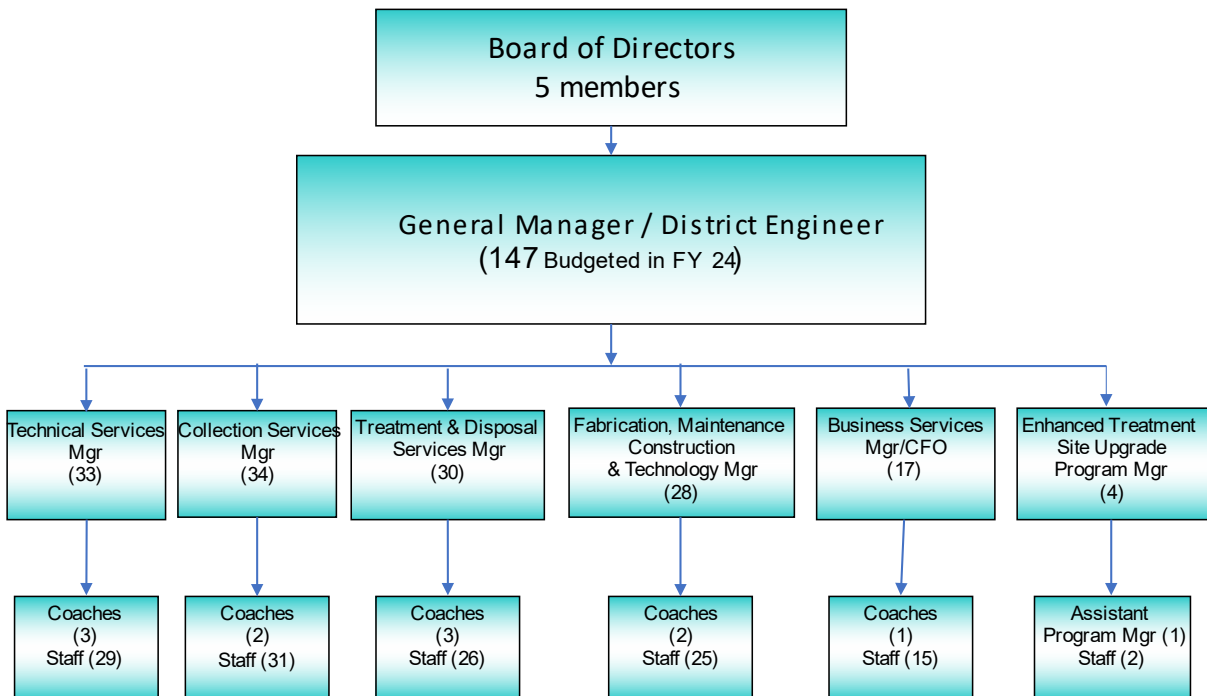
Board Member	Position	City Represented	Year Elected	Term Expires
Manny Fernandez	President	Union City, Ward 1	2011	2024
Jennifer Toy	Vice President	Fremont, Ward 3	1998	2026
Tom Handley	Secretary	Fremont, Ward 3	2007	2026
Pat Kite	Director	Newark, Ward 2	1991	2024
Anjali Lathi	Director	Fremont, Ward 3	2002	2024

Board positions effective 05/09/23

Staff

Paul Eldredge	General Manager/District Engineer
Armando Lopez	Treatment & Disposal Services Manager
Robert Simonich	Maintenance & Technology Services Manager
Mark Carlson	Business Services Manager/Chief Financial Officer
Raymond Chau	Technical Services Manager
Jose Rodrigues	Collection Services Manager

Karen W. Murphy - General Counsel





VISION/MISSION STATEMENT

April 10, 2017

To safely and responsibly collect and treat wastewater, and to recover resources from process waste streams, while protecting human health and improving the environment in a way that benefits the Tri-Cities and all USD stakeholders.

How we continue to accomplish our Vision:

Commitment to safety:

- Continually reviewing our safety program for opportunities to improve
- Focusing on protecting employees and the community in all our activities
- Allocating resources to ensure safe operations (equipment, training, staff)
- Collaboratively promoting a safe work environment

Responsibility:

- Being accountable for our actions and decisions
- Being fiscally prudent
- Maintaining and upgrading infrastructure
- Anticipating and meeting future District and stakeholder needs
- Compliance with laws and regulations (local, state, federal)
- Effective asset management
- Effective use of technology
- Looking for innovative ways to reduce or reuse our waste streams

Collect, treat, and recover/reuse wastewater:

- Providing capacity in the collection system and plant
- Regulating connections
- Increasing efforts for resource recovery (biogas, biosolids, etc.)
- Exploring ways to maximize water reclamation and reuse potential

Human health and environmental stewardship

- Preventing sewer spills and back-ups
- Limiting health risks through treatment of wastewater
- Responding to emergencies
- Enhancing water quality in the San Francisco Bay estuary
- Meeting or exceeding all water and air quality standards
- Promoting pollution prevention and pretreatment through outreach and educational programs
- Maximizing use of green energy sources when feasible
- Working towards energy neutrality



VISION/MISSION STATEMENT April 10, 2017

We benefit our stakeholders by:

Community

- Complying with all local, state, and federal regulations, protecting the environment and controlling odors
- Communicating with the public and bringing awareness about wastewater issues
- Responding to emergencies and providing mutual aid
- Participating in community outreach activities
- Contributing to the wastewater treatment profession by participating in professional associations, partnering with other agencies and organizations, and sharing best practices
- Working cooperatively with cities and other government agencies

Customer

- Providing award-winning, reliable service
- Being fiscally responsible and cost effective, and providing value
- Promptly responding to customers' needs
- Being professional and courteous
- Proactively and creatively meeting customer needs
- Supporting businesses through permitting, education and by providing capacity

Employees

- Providing a safe work environment
- Recognizing employee contributions
- Encouraging cooperation and collaboration
- Demonstrating equality and fairness
- Valuing employee input, and offering opportunities for involvement and creativity
- Providing training and resources
- Providing competitive wages and benefits in a stable work environment
- Communicating and sharing information openly and honestly

**Union Sanitary District
Draft FY 2024 - FY 2043 CIP Budget
(All Figures x \$1,000)**

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	10-Year Total	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	20-Year Total	
ADMINISTRATIVE FACILITIES																													
80		3		Additional CS (Vehicle) Storage								200	1,623				1,823											1,823	
80		2	Design	Cathodic Protection Improvements	500	0	100	400		310		331		353		377	1,871		402		429		458		488		521	4,169	
80		1	Constr	ETSU - 1A - Campus Building	90,526	20,674	37,000	32,852									69,852											69,852	
80		1	Program	Field Ops Bldg. Sesmic Upgrade and Leak Repairs	5,798	0	134	535	3,590	1,539							5,798											5,798	
80		3		FMC Storage					320								320											320	
80		3		Plant Paving						750			200		200		1,150	200		200		200		200		200		2,150	
80		2		Radio Repeater Antenna Replacement								150					150											150	
80	50	3		Solar Panels/Inverters Replacement at Alvarado													0			197								197	
90	50	3		Solar Panels/Inverters Replacement at Alvarado													0			197								197	
80	50	2		Solar Panels/Inverters Replacement at Carport				50						335			385								139			524	
90	50	2		Solar Panels/Inverters Replacement at Carport				50						335			385								139			524	
80	50	2	Design	Solar Panels/Inverters Replacement at Irvington	1,401	15	693	693									1,386			919								2,305	
90	50	2	Design	Solar Panels/Inverters Replacement at Irvington	1,401	15	693	693									1,386			919								2,305	
Total for ADMINISTRATIVE FACILITIES					99,626	20,704	38,620	35,273	3,910	1,849	750	681	1,823	1,023	200	377	84,506	200	402	2,432	429	200	458	200	766	200	521	90,314	
Total Priority 1 Administrative Facilities					96,324	20,674	37,134	33,387	3,590	1,539	0	0	0	0	0	0	75,650	0	0	0	0	0	0	0	0	0	0	75,650	
Total Priority 2 Administrative Facilities					3,302	30	1,486	1,886	0	310	0	481	0	1,023	0	377	5,563	0	402	1,838	429	0	458	0	766	0	521	9,977	
Total Priority 3 Administrative Facilities					0	0	0	0	320	0	750	200	1,823	0	200	0	3,293	200	0	594	0	200	0	200	0	200	0	4,687	
Total Fund 80 - Administrative Facilities					98,225	20,689	37,927	34,530	3,910	1,849	750	681	1,823	688	200	377	82,735	200	402	1,316	429	200	458	200	627	200	521	87,288	
Total Fund 90 - Administrative Facilities					1,401	15	693	743	0	0	0	0	0	0	335	0	0	1,771	0	0	1,116	0	0	0	0	139	0	0	3,026

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	10-Year Total	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	20-Year Total
COLLECTION SYSTEM																												
80		2		Cast Iron/Pipe Lining					587		626		668		713		2,595	761		812		866		925		987		6,945
80		1	Design	Central Avenue Sanitary Sewer Relocation	2,500	0	150	2,350									2,500											2,500
80		2	Constr	FY 23 Cast Iron/Piping Lining	550	0	520	30									550											550
80		2	Design	Gravity Sewer Rehab/Replacement	2,158	0	216	1,942		1,883		2,009		2,144		2,288	10,481		2,441		2,605		2,779		2,966		3,165	24,437
80		1		RCP Sewer Rehab (Alvarado Basin)				200	2,200	2,500							4,900											4,900
80		1		RCP Sewer Rehab (Irvington Basin)				100	800	900		250	2,200	2,550			6,800											6,800

**Union Sanitary District
Draft FY 2024 - FY 2043 CIP Budget
(All Figures x \$1,000)**

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	10-Year Total	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	20-Year Total
80		1		RCP Sewer Rehab (Newark Basin)						250	2,200	2,550					5,000											5,000
Total for COLLECTION SYSTEM					5,208	0	886	4,622	3,587	5,533	2,826	4,809	2,868	4,694	713	2,288	32,826	761	2,441	812	2,605	866	2,779	925	2,966	987	3,165	51,133
Total Priority 1 Collection System					2,500	0	150	2,650	3,000	3,650	2,200	2,800	2,200	2,550	0	0	19,200	0	0	0	0	0	0	0	0	0	0	19,200
Total Priority 2 Collection System					2,708	0	736	1,972	587	1,883	626	2,009	668	2,144	713	2,288	13,626	761	2,441	812	2,605	866	2,779	925	2,966	987	3,165	31,933
Total Priority 3 Collection System					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Fund 80 - Collection System					5,208	0	886	4,622	3,587	5,533	2,826	4,809	2,868	4,694	713	2,288	32,826	761	2,441	812	2,605	866	2,779	925	2,966	987	3,165	51,133
Total Fund 90 - Collection System					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	10-Year Total	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	20-Year Total	
TRANSPORT SYSTEM																													
80	50	2		Alameda Creek Crossing Lift Station													0						768		4,574	5,591		10,933	
90	50	2		Alameda Creek Crossing Lift Station													0						768		4,574	5,591		10,933	
90		1	Constr	Cherry St. PS	250	150	100										100											100	
90		2		Equalization Storage @ Newark													0			3,066	9,407	21,951						34,424	
80		1	Constr	Forcemain Corrosion Repairs - Phase 3	1,438	1,383	55										55											55	
80		1	Constr	Forcemain Corrosion Repairs - Phase 4	2,368	68	2,200	100									2,300											2,300	
80		2	Design	Forcemain Stabilization at Alameda Creek	0	0	100										100											100	
80		3		Forcemain Rehabilitation													0					900	12,275	12,275	12,275	12,275		50,000	
80	50	2		Irvington PS Pumps and VFDs					1,025	4,613	4,613						10,251											10,251	
90	50	2		Irvington PS Pumps and VFDs					1,025	4,613	4,613						10,251											10,251	
80	50	3		Irvington PS Rehabilitation													0	590	2,653	2,653								5,896	
90	50	3		Irvington PS Rehabilitation													0	590	2,653	2,653								5,896	
80	50	3		Lift Station Rehabilitation											50	445	495							743	3,342	3,342		7,922	
90	50	3		Lift Station Rehabilitation											50	445	495							743	3,342	3,342		7,922	
80	50	2	Constr	Newark PS/Irvington PS Portable VFD	124	15	109										109											109	
90	50	2	Constr	Newark PS/Irvington PS Portable VFD	124	15	109										109											109	
80	45	2	Des/Constr	Newark and Irvington PS Chemical System Improver	5,655	353	377	4,147	778								5,302											5,302	
90	55	2	Des/Constr	Newark and Irvington PS Chemical System Improver	6,911	431	461	5,069	950								6,480											6,480	
80	50	2		Newark PS Pumps and VFDs								1,089	4,901	4,901			10,891											10,891	
90	50	2		Newark PS Pumps and VFDs								1,089	4,901	4,901			10,891											10,891	
80	50	3		Newark PS Rehabilitation													0				501	2,254	2,254					5,009	
90	50	3		Newark PS Rehabilitation													0				501	2,254	2,254					5,009	

**Union Sanitary District
Draft FY 2024 - FY 2043 CIP Budget
(All Figures x \$1,000)**

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	10-Year Total	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	20-Year Total
90		2		Stevenson Blvd. Lift Station	3,000	0	100	200	1,350	1,350							3,000											3,000
80		3		Transport System Misc. Projects					250	250	250	250	250	250	250	250	2,000	250	250	250	250	250	250	250	250	250	250	4,500
Total for TRANSPORT SYSTEM					19,870	2,415	3,611	9,516	5,378	10,826	9,476	2,428	10,052	10,052	350	1,140	62,829	1,430	5,556	8,622	10,659	27,609	18,569	14,011	28,357	30,391	250	208,283
Total Priority 1 Transport System					4,056	1,601	2,355	100	0	0	0	0	0	0	0	0	2,455	0	0	0	0	0	0	0	0	0	0	2,455
Total Priority 2 Transport System					15,814	814	1,256	9,416	5,128	10,576	9,226	2,178	9,802	9,802	0	0	57,384	0	0	3,066	9,407	21,951	1,536	0	9,148	11,182	0	113,674
Total Priority 3 Transport System					0	0	0	0	250	250	250	250	250	350	1,140	2,990	1,430	5,556	5,556	1,252	5,658	17,033	14,011	19,209	19,209	250	92,154	
Total Fund 80 - Transport System					9,585	1,819	2,841	4,247	2,053	4,863	4,863	1,339	5,151	5,151	300	695	31,503	840	2,903	2,903	751	3,404	15,547	13,268	20,441	21,458	250	113,268
Total Fund 90 - Transport System					10,285	596	770	5,269	3,325	5,963	4,613	1,089	4,901	4,901	50	445	31,326	590	2,653	5,719	9,908	24,205	3,022	743	7,916	8,933	0	95,015

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	10-Year Total	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	20-Year Total	
TREATMENT PLANT																													
80	50	2	Constr	Alvarado Influent PS Improvements	5,474	5,214	260										260											260	
90	50	2	Constr	Alvarado Influent PS Improvements	5,474	5,214	260										260											260	
80		2	Design	Alvarado Influent Valve Box Gate Valves 1-2	550	0	50	500									550											550	
80	50	2		Centrifuge Replacement					583	1,325	5,171	2,585					9,664											9,664	
90	50	2		Centrifuge Replacement					583	1,325	5,171	2,585					9,664											9,664	
80		2		Centrifuge System Equipment Replacement					927	1,263	7,666	4,472					14,328											14,328	
80	50	1		Cogen Engine No. 1 60K Block Replacement				400								525	925									675		1,600	
90	50	1		Cogen Engine No. 1 60K Block Replacement				400								525	925								675		1,600		
80	50	1	Constr	Cogen Engine No. 2 60K Block Replacement	375	0	375						475				850					625					1,475		
90	50	1	Constr	Cogen Engine No. 2 60K Block Replacement	375	0	375						475				850					625					1,475		
80	50	2		Cogen Retrofit										271	1,230		1,501											1,501	
90	50	2		Cogen Retrofit										271	1,230		1,501											1,501	
80		2		Control Box No. 1 Improvements						622	4,425	1,896					6,943											6,943	
80		2		Degritter Building Roof (Seismic) Replacement													0			741	4,112	1,761						6,614	
80	50	2		Degritting at Headworks and Improvements											499	1,375	1,874	4,907	8,439	8,438								23,658	
90	50	2		Degritting at Headworks and Improvements											499	1,375	1,874	4,907	8,439	8,438								23,658	
80		3		Diffuser Replacement													0	504	781	807								2,092	
90		3		Digester Additional Capacity													0											0	
80		2		Digester No. 1 Insp & Rehab					358	1,998	1,332						3,688					732	2,996	2,996			10,412		

**Union Sanitary District
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(All Figures x \$1,000)**

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	10-Year Total	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	20-Year Total
80		2		Digester No. 2 Insp & Rehab													0		576	3,318	2,212							6,106
80		2		Digester No. 3 Insp & Rehab									522	3,010			3,532	2,007										5,539
80		2		Digester No. 4 Insp & Rehab					430	2,398	1,599						4,427				740	4,267	2,845				12,279	
80		2		Digester No. 5 Insp & Rehab								474	2,731	1,820			5,025							553	3,186	2,124	10,888	
80		1	Design	Digester No. 6 Insp & Rehab	7,657	160	668	4,781	2,049						1,005	4,109	12,611	4,109										16,720
80		3		Digester No. 7 Insp & Rehab													0		1,550	6,341	6,341						14,232	
90		1	Constr	Digester No. 7	28,643	28,443	200										200										200	
80	60	1	Constr	ETSU - 1A - Aeration Basin Modifications	64,683	20,059	6,000	20,581	18,043								44,624											44,624
90	40	1	Constr	ETSU - 1A - Aeration Basin Modifications	43,123	13,373	4,000	13,721	12,029								29,750											29,750
80	40	1	Constr	ETSU - 1A - Aeration Basin No. 8	7,489	1,377	3,200	2,912									6,112											6,112
90	60	1	Constr	ETSU - 1A - Aeration Basin No. 8	11,233	2,066	4,800	4,367									9,167											9,167
80	60	1	Constr	ETSU - 1A - Aeration Internal Lift Pumps	2,430	90	1,200	1,140									2,340											2,340
90	40	1	Constr	ETSU - 1A - Aeration Internal Lift Pumps	1,620	60	800	760									1,560											1,560
80	60	1	Constr	ETSU - 1A - Blower 7-10 Replacement	2,748	1,868	600	280									880											880
90	40	1	Constr	ETSU - 1A - Blower 7-10 Replacement	1,832	1,245	400	187									587											587
80		1	Constr	ETSU - 1A - Plant 12kV Switchgear (SWGR-SE)	9,329	1,398	2,000	5,931									7,931											7,931
80	50	1	Constr	ETSU - 1A - Site Drainage Improvements	3,307	211	2,000	1,096									3,096											3,096
90	50	1	Constr	ETSU - 1A - Site Drainage Improvements	3,307	211	2,000	1,096									3,096											3,096
80	60	1	Design	ETSU - 1B - Secondary Clarifiers	90,311	2,236	1,800	8,880	39,600	28,546	9,249						88,075											88,075
90	40	1	Design	ETSU - 1B - Secondary Clarifiers	60,207	1,491	1,200	5,920	26,400	19,031	6,165						58,716											58,716
80	60	1	Design	ETSU - 1B - Switchboard 4 Replacement	1,194	0		360	834								1,194											1,194
90	40	1	Design	ETSU - 1B - Switchboard 4 Replacement	796	0		240	556								796											796
80	60	1	Design	ETSU - 1B - Effluent Facilities	28,943	0		5,917	9,660	8,520	4,846						28,943											28,943
90	40	1	Design	ETSU - 1B - Effluent Facilities	19,296	0		3,945	6,440	5,680	3,231						19,296											19,296
80	25	1	Design	ETSU - 1C - Plant Equalization Storage	9,905	0			300	450	7,855	1,300					9,905											9,905
90	75	1	Design	ETSU - 1C - Plant Equalization Storage	29,713	0			900	1,350	23,563	3,900					29,713											29,713
80	50	3		ETSU - 2 - Nutrient Removal (Level 2 Year-round)													0				2,774	11,463	36,329	48,439	36,329		135,334	
90	50	3		ETSU - 2 - Nutrient Removal (Level 2 Year-round)													0				2,774	11,463	36,329	48,439	36,329		135,334	
80		2		Flares Replacement					753	4,357	1,867						6,978										6,978	
80		2		MCC Replacement							50	491					541										541	

**Union Sanitary District
Draft FY 2024 - FY 2043 CIP Budget
(All Figures x \$1,000)**

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	10-Year Total	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	20-Year Total
80		2	Constr	Miscellaneous Improvements	7,089	589	3,500	3,000									6,500											6,500
80		2		Odor Scrubber Replacements (HW & West PCs)			428	1,767	7,528	10,540							20,263											20,263
80		2		Odor Scrubber Replacements (East PCs)						255	701	2,264	3,827	3,827	1,913		12,787											12,787
80		2		Odor Scrubber System Improvements								370	2,927	1,280	7,096		11,673	4,407	7,572	3,694	3,557	799	6,326					38,028
80		2		Plant 1 and 2 Water System Improvements				105	1,069								1,174											1,174
80		2		Plant 5kV Switchgear			392	2,803	1,201								4,395											4,395
80		2		Plant 12kV Switchgear			1,068	4,722	4,722								10,512											10,512
80	50	3		Plant Additional Power Source													0			250	2,000	2,750						5,000
90	50	3		Plant Additional Power Source													0			250	2,000	2,750						5,000
80		2		Plant Asset Condition Assessment R&R			4,934	497		979	827	3,562	3,648	7,877	1,132		23,456	2,646	406	247		398		1,062	4,403	24,516	24,516	81,650
80	50	2		Plant Fiber Optic Network									300	300	300		900	400										1,300
90	50	2		Plant Fiber Optic Network									300	300	300		900	400										1,300
80		2		Plant Mechanical and Electrical Projects				380	500	500	500	500	500	500	500		3,880	500	500	500	500	500	500	500	500	500	500	8,880
80		2	Constr	PLC Replacement	250	0	250				300				350		900			400				450				1,750
80		1		Primary Clarifier (1 - 4) Seismic Upgrade			134	556	2,367	3,314							6,371											6,371
80	75	2		Primary Clarifier Rehab (5-6)						514	2,121	2,105	8,418	8,418	4,209		25,785											25,785
90	25	2		Primary Clarifier Rehab (5-6)						172	707	701	2,806	2,806	1,403		8,595											8,595
80		3		Reclaimed Water													0											0
90		3		Reclaimed Water													0											0
80		1	Design	Secondary Digester No. 1 Insp & Rehab	1,209	25	130	702	351								1,184		508	4,723								6,415
80		3		Secondary Digester No. 2 Insp & Rehab				367	3,413								3,780				542	5,039						9,361
80		2		Seismic Retrofit of Conc. Structures				300		300		300		300			1,200	300		300		300		300		300		2,700
80		1	Constr	Standby Power Generation System Upgrade	27,754	11,006	13,663	1,985	1,100								16,748											16,748
90		3		Standby Power Generator No. 4													0			2,269	14,468	7,234						23,971
80		2	Des/Constr	Switchboard 3 and MCC 25 Replacement	2,690	105	851	1,734									2,585											2,585
80		2		Thickeners 1 and 2 Rehabilitation			221	1,783	764								2,768											2,768
80		3		Thickeners 3 and 4 Rehabilitation													0	638	3,070									3,708

**Union Sanitary District
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(All Figures x \$1,000)**

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	10-Year Total	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	20-Year Total	
80		1	Design	WAS Thickeners	22,442	1,312	250	6,315	8,250	6,315							21,130											21,130	
90		3		Waste Recycling and Alternative Energy													0											0	
Total for TREATMENT PLANT					501,448	97,753	50,832	104,327	143,426	104,745	99,065	22,559	13,483	25,088	30,943	27,772	622,238	25,725	31,841	40,216	32,232	28,301	42,515	80,811	103,684	101,160	27,140	1,135,863	
Total Priority 1 Treatment Plant					479,921	86,631	45,661	92,051	127,068	72,259	58,223	5,200	950	0	1,005	5,159	407,575	4,109	508	4,723	0	1,250	0	0	1,350	0	0	419,515	
Total Priority 2 Treatment Plant					21,527	11,122	5,171	12,277	15,991	29,072	40,841	17,359	12,533	25,088	29,938	22,613	210,883	20,474	25,932	26,076	10,381	5,230	14,089	8,153	5,456	28,502	27,140	382,316	
Total Priority 3 Treatment Plant					0	0	0	0	367	3,413	0	0	0	0	0	0	3,780	1,142	5,401	9,417	21,851	21,821	28,426	72,658	96,878	72,658	0	334,032	
Total Fund 80 - Treatment Plant					295,829	45,650	36,797	73,691	96,518	77,359	60,763	15,367	12,307	21,711	26,108	24,169	444,788	20,418	23,402	29,509	17,514	15,668	28,302	44,482	54,570	64,831	27,140	770,624	
Total Fund 90 - Treatment Plant					205,619	52,103	14,035	30,636	46,908	27,386	38,302	7,192	1,176	3,377	4,835	3,603	177,450	5,307	8,439	10,707	14,718	12,633	14,213	36,329	49,114	36,329	0	365,239	
Administrative Facilities					99,626	20,704	38,620	35,273	3,910	1,849	750	681	1,823	1,023	200	377	84,506	200	402	2,432	429	200	458	200	766	200	521	90,314	
Collection System					5,208	0	886	4,622	3,587	5,533	2,826	4,809	2,868	4,694	713	2,288	32,826	761	2,441	812	2,605	866	2,779	925	2,966	987	3,165	51,133	
Transport System					19,870	2,415	3,611	9,516	5,378	10,826	9,476	2,428	10,052	10,052	350	1,140	62,829	1,430	5,556	8,622	10,659	27,609	18,569	14,011	28,357	30,391	250	208,283	
Treatment Plant					501,448	97,753	50,832	104,327	143,426	104,745	99,065	22,559	13,483	25,088	30,943	27,772	622,238	25,725	31,841	40,216	32,232	28,301	42,515	80,811	103,684	101,160	27,140	1,135,863	
GRAND TOTAL					626,152	120,872	93,949	153,738	156,300	122,952	112,117	30,477	28,226	40,857	32,206	31,577	802,399	28,116	40,240	52,082	45,925	56,976	64,321	95,947	135,773	132,738	31,076	1,485,593	
R&R (Fund 80) Total					408,847	68,158	78,451	117,090	106,067	89,603	69,202	22,196	22,149	32,244	27,321	27,529	591,852	22,219	29,148	34,540	21,299	20,138	47,086	58,875	78,604	87,476	31,076	1,022,313	
Capacity (Fund 90) Total					217,305	52,714	15,498	36,648	50,233	33,349	42,915	8,281	6,077	8,613	4,885	4,048	210,547	5,897	11,092	17,542	24,626	36,838	17,235	37,072	57,169	45,262	0	463,280	
Priority 1																													
Administrative Facilities					96,324	20,674	37,134	33,387	3,590	1,539	0	0	0	0	0	0	75,650	0	0	0	0	0	0	0	0	0	0	0	75,650
Collection System					2,500	0	150	2,650	3,000	3,650	2,200	2,800	2,200	2,550	0	0	19,200	0	0	0	0	0	0	0	0	0	0	0	19,200
Transport System					4,056	1,601	2,355	100	0	0	0	0	0	0	0	0	2,455	0	0	0	0	0	0	0	0	0	0	0	2,455
Treatment Plant					479,921	86,631	45,661	92,051	127,068	72,259	58,223	5,200	950	0	1,005	5,159	407,575	4,109	508	4,723	0	1,250	0	0	1,350	0	0	0	419,515
Total Priority 1 Projects					582,801	108,906	85,300	128,188	133,658	77,448	60,423	8,000	3,150	2,550	1,005	5,159	504,880	4,109	508	4,723	0	1,250	0	0	1,350	0	0	0	516,820
Priority 2																													
Administrative Facilities					3,302	30	1,486	1,886	0	310	0	481	0	1,023	0	377	5,563	0	402	1,838	429	0	458	0	766	0	521	9,977	
Collection System					2,708	0	736	1,972	587	1,883	626	2,009	668	2,144	713	2,288	13,626	761	2,441	812	2,605	866	2,779	925	2,966	987	3,165	31,933	
Transport System					15,814	814	1,256	9,416	5,128	10,576	9,226	2,178	9,802	9,802	0	0	57,384	0	0	3,066	9,407	21,951	1,536	0	9,148	11,182	0	113,674	
Treatment Plant					21,527	11,122	5,171	12,277	15,991	29,072	40,841	17,359	12,533	25,088	29,938	22,613	210,883	20,474	25,932	26,076	10,381	5,230	14,089	8,153	5,456	28,502	27,140	382,316	
Total Priority 2 Projects					43,351	11,966	8,649	25,551	21,706	41,841	50,694	22,027	23,003	38,057	30,651	25,278	287,456	21,235	28,775	31,792	22,822	28,047	18,862	9,078	18,336	40,671	30,826	537,900	
Priority 3																													
Administrative Facilities					0	0	0	0	320	0	750	200	1,823	0	200	0	3,293	200	0	594	0	200	0	200	0	200	0	4,687	
Collection System					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Transport System					0	0	0	0	250	250	250	250	250	250	350	1,140	2,990	1,430	5,556	5,556	1,252	5,658	17,033	14,011	19,209	19,209	250	92,154	
Treatment Plant					0	0	0	0	367	3,413	0	0	0	0	0	0	3,780	1,142	5,401	9,417	21,851	21,821	28,426	72,658	96,878	72,658	0	334,032	
Total Priority 3 Projects					0	0	0	0	937	3,663	1,000	450	2,073	250	550	1,140	10,063	2,772	10,957	15,567	23,103	27,679	45,459	86,869	116,087	92,067	250	430,873	



USD TREAT
PROTECT
PRESERVE
est. 1918
TRI-CITY WASTEWATER

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
General Manager/
District Engineer

Karen W. Murphy
Attorney

MAY 22, 2023
BOARD OF DIRECTORS MEETING
AGENDA ITEM # 13

TITLE: Board of Directors Internal Committee Assignments for 2023-2024 *(This is an Information Item)*

SUBMITTED: Paul R. Eldredge, General Manager/District Engineer
Regina McEvoy, Executive Assistant to the General Manager/Board Clerk

Recommendation

Although this is typically presented as an information only item, the option to review and discuss is at the discretion of the Board President.

Discussion

Per Board Policy 3070, the President of the Board of Directors is responsible for assigning members and alternates for internal committees, and the determination of the Board President on committee assignments shall be considered final. The assignments received from President Fernandez are as follows:

Committee	Board Members	Alternate #1	Alternate #2	Alternate #3
Audit	Director Handley Director Fernandez	Director Toy	Director Lathi	Director Kite
Budget & Finance	Director Kite Director Handley	Director Toy	Director Fernandez	Director Lathi
Engineering & Information Technology	Director Fernandez Director Toy	Director Kite	Director Handley	Director Lathi
Legal/Community Affairs	Director Lathi Director Kite	Director Fernandez	Director Toy	Director Handley
Legislative	Director Fernandez Director Toy	Director Kite	Director Handley	Director Lathi
Personnel	Director Toy Director Lathi	Director Kite	Director Fernandez	Director Handley
Investment Portfolio Ad Hoc	Director Lathi Director Handley	Director Kite	Director Toy	Director Fernandez

Background

Directors provided their preferences for internal committee assignments following the May 8, 2023, Board of Directors meeting.

Previous Board Action

The Board receives this Information Item on an annual basis. The Board directed staff to include the Investment Portfolio Ad Hoc in this year's internal committee assignments.

Attachments: Policy 3070, Board Officers and Committee Membership
Internal Committee Assignments 2013-Present
Internal Committee Preferences and Fiscal Year 2024 Assignments

Union Sanitary District
Policy and Procedure Manual

Effective: 4/26/2021	Boardmember Officers and Committee Membership	Policy Number 3070 Page 1 of 4
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Policy

Selection of Board Officers will be held annually at the first regular meeting following the certification of Board election results in election years or approximately one year after the election of Board Officers in non-election years. Internal Board committee memberships and Board representation for External Committees shall be established following the selection of the Board Officers.

Purpose

To provide a written record of the procedure approved by the Board for electing its Officers and establishing its committee memberships.

Procedure

Board Officers

1. The Officers are President, Vice President, and Secretary and the term of office shall be for approximately one year, allowing for flexibility depending on the date of the election for Boardmembers. In election years, which occur every two years, the term shall run until after certification of election results. In non-election years, the term shall end and begin on such date as determined by the Board to allow for approximate one-year terms, with the understanding that terms may be either longer or shorter than one year depending on the date of the next District election.
2. The Board may, by motion, amend the titles of President and Vice President to Chair and Vice Chair, respectively, provided that the Chair, regardless of title, shall act as the “president” pursuant to California Health & Safety Code Section 6486. Throughout this Policy, the titles President and Vice President shall be used interchangeably with Chair and Vice Chair.
3. The President shall preside over the meetings of the Board of Directors and be responsible for the following:
 - a. maintaining order and following the published agenda
 - b. ensuring Boardmembers are allowed to participate in discussions
 - c. allowing the public to speak on agenda items
 - d. facilitating dialog among the public, staff, and Boardmembers
 - e. appointment of members of the Board of Directors to Internal Committee assignments
 - f. signing resolutions, ordinances, and construction contracts on behalf of the District

- g. representing the Board of Directors on issues or at events as designated by the full Board

The Vice President shall fulfill the duties of the President when the President is absent or otherwise unavailable.

The Secretary shall ensure the recording of the minutes of the Board of Directors meetings and sign the adopted Minutes, shall sign all Resolutions and Ordinances passed by the District, and shall serve as Vice President when the Vice President is absent or otherwise unavailable. If the President and Vice President are both absent, and a quorum is present, the Secretary shall preside over the meetings of the Board of Directors as the Board President.

4. During election years, the newly elected Boardmembers shall be sworn in as the first item of business on the agenda followed immediately by the selection of the Board Officers. During non-election years, the selection of the Board Officers shall be considered after the last motion item on the agenda. The Board shall elect the President, Vice-President, and Secretary for terms as set forth in Section 1 above. The election or removal of the President, Vice-President, or Secretary shall require a majority vote of the Board. The Board may choose to follow a rotation of officers.

The Board officers in office at the beginning of the meeting shall retain their positions until the adjournment of the meeting and the newly selected Board Officers shall assume their duties immediately following this meeting.

Internal Board Committee Memberships

1. Internal committees are: Budget and Finance; Engineering and Information Technology; Legal/Community Affairs; Legislative; Personnel; and Audit Committee. There is no fixed schedule for meetings set by this policy and appointments are made by the President, as set forth below. Notwithstanding the above, meetings are noticed and open to the public.
2. Annually, following the election of Board officers, and at the same meeting as the election of the officers, Directors shall be provided a list of the internal committees along with an internal committee interest form. The internal committee interest form shall be completed in order of preference and provided to the General Manager, or designee, no later than 11 calendar days in advance of the next Board meeting.
3. The President is delegated the authority to appoint Directors to the internal committees. The President shall make every effort to rotate committee assignments and ensure a similar number of committee assignments for each Board member. Notice of internal committee membership appointments will be contained in an information item to the Board at the next regularly scheduled meeting following the selection of the Board Officers. The determination of the Board President on committee assignments shall be

considered final.

- 4. Ad Hoc committees are called as needed by a majority vote of the Board of Directors.

External Commissions / Committee Representatives (CCR)

- 1. External commissions/committees include: the EBDA Commission; the Joint Powers Authority for Geographic Information Systems; the Alameda County Water District Finance Authority (ACWDFA); and the Alameda County Chapter of the California Special Districts Association.
- 2. Membership on the EBDA Commission shall be a maximum of two consecutive years, with a possible three years in exceptional circumstances if approved by the Board.
- 3. The Board of Directors will elect representatives for External Committees annually. At the same meeting as the election of officers, Directors shall be provided a list of external committees along with an external committee interest form. The external committee interest form shall be completed in order of preference and provided to the General Manager, or designee, no later than 11 calendar days in advance of the meeting. The external committee interests shall be compiled in a motion item staff report by the General Manager, or designee, and provided to the Board for consideration. The Board shall elect the external committee representatives for one-year terms to start on July 1 of each year, or as otherwise decided by the Board majority, unless the assignment is vacant, in which case the term shall begin immediately upon election. The Board may choose to follow a rotation for representatives. The election or removal of external committee representatives shall require a majority vote of the Board.

Management Responsibility

The General Manager will be responsible for scheduling on the Board agenda, the election or appointment of Board officers and external commissions, pursuant to the schedule shown above. The General Manager, or designee, will provide the following to the new President, with copies to the Board: (1) a list of the last ten years and current committee memberships; (2) a copy of this policy; and (3) a list of internal committee interests. In consultation with the Board President, the General Manager will also be responsible for scheduling on the Board agenda the announcement of internal committee appointments.

Supersedes Policy Dated: July 2004, September 2005, January 2008, September 2010, October 2013, December 2016, December 2019

Approved by:	Board of Directors, April 2021
Reviewers:	General Manager, Board of Directors, District’s attorney
Notify Person:	General Manager
Review frequency:	Every 3 years
Next Review:	April 2024

Union Sanitary District

**BOARDMEMBER INTERNAL COMMITTEE ASSIGNMENTS
2013 - Present**

Date	Budget & Finance	Engineering & Information Technology	Legal/Community Affairs	Legislative	Personnel	Audit Committee
7/22-7/23	Pat Kite Jennifer Toy	Anjali Lathi Tom Handley	Anjali Lathi Pat Kite	Manny Fernandez Tom Handley	Manny Fernandez Jennifer Toy	Manny Fernandez Jennifer Toy
6/21-7/22	Anjali Lathi Jennifer Toy	Pat Kite Manny Fernandez	Anjali Lathi Tom Handley	Jennifer Toy Manny Fernandez	Pat Kite Jennifer Toy	Tom Handley Pat Kite
5/20-6/21	Pat Kite Jennifer Toy	Anjali Lathi Tom Handley	Jennifer Toy Manny Fernandez	Anjali Lathi Manny Fernandez	Pat Kite Tom Handley	Pat Kite Jennifer Toy
8/18-7/19	Pat Kite Jennifer Toy	Tom Handley Anjali Lathi	Manny Fernandez Tom Handley	Manny Fernandez Anjali Lathi	Manny Fernandez Pat Kite	Pat Kite Jennifer Toy
7/17-8/18	Tom Handley Jennifer Toy	Manny Fernandez Pat Kite	Tom Handley Anjali Lathi	Anjali Lathi Jennifer Toy	Pat Kite Jennifer Toy	Manny Fernandez Anjali Lathi
7/16-7/17	Tom Handley Anjali Lathi	Pat Kite Jennifer Toy	Tom Handley Anjali Lathi	Manny Fernandez Pat Kite	Manny Fernandez Jennifer Toy	Manny Fernandez Jennifer Toy
7/15-7/16	Manny Fernandez Pat Kite	Tom Handley Jennifer Toy	Pat Kite Anjali Lathi	Manny Fernandez Tom Handley	Manny Fernandez Jennifer Toy	Anjali Lathi Jennifer Toy
7/14-7/15	Anjali Lathi Tom Handley	Pat Kite Jennifer Toy	Pat Kite Tom Handley	Manny Fernandez Jennifer Toy	Manny Fernandez Anjali Lathi	Manny Fernandez Tom Handley
7/13-7/14	Jennifer Toy Pat Kite	Tom Handley Manny Fernandez	Anjali Lathi Tom Handley	Pat Kite Anjali Lathi	Jennifer Toy Manny Fernandez	Jennifer Toy Tom Handley
7/12-7/13	Anjali Lathi Jennifer Toy	Manny Fernandez Tom Handley	Anjali Lathi Pat Kite	Pat Kite Tom Handley	Jennifer Toy Manny Fernandez	Jennifer Toy Tom Handley

Preferences (committees that meet on a regular basis)			
Board Member	Budget & Finance	Engineering & IT	Legal & Community Affairs
Anjali	3	2	1
Jennifer	2	1	3
Manny	3	1	2
Pat	2	1	3
Tom	2	1	3

Preferences (committees that meet infrequently)				
	Legislative	Personnel	Audit	Investment Ad Hoc
Anjali	3	2	4	1
Jennifer	2	1	3	4
Manny	1	3	2	4
Pat	2	1	4	3
Tom	2	3	4	1

FY 24 Internal Committee Assignments							
Board Member	Budget & Finance	Engineering & IT	Legal & Community Affairs	Legislative	Personnel	Audit	Investment Ad Hoc
Member	Pat	Manny	Anjali	Manny	Jennifer	Tom	Anjali
Member	Tom	Jennifer	Pat	Jennifer	Anjali	Manny	Tom
Alternate #1	Jennifer	Pat	Manny	Pat	Pat	Jennifer	Pat
Alternate #2	Manny	Tom	Jennifer	Tom	Manny	Anjali	Jennifer
Alternate #3	Anjali	Anjali	Tom	Anjali	Tom	Pat	Manny



USD TREAT
PROTECT
PRESERVE
est. 1918
TRI-CITY WASTEWATER

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

**MAY 22, 2023
BOARD OF DIRECTORS MEETING
AGENDA ITEM # 14**

TITLE: **Status of Priority 1 Capital Improvement Program Projects (*This is an Information Item*)**

SUBMITTED: Paul R. Eldredge, General Manager/District Engineer
Raymond Chau, Technical Services Work Group Manager

Recommendation

Information only.

Discussion

In June 2022, the Board approved the Capital Improvement Program (CIP) budget for Fiscal Year (FY) 2023 in the amount of \$68,830,200 for the planning, design, and construction of 37 CIP projects.

For FY 2023, 18 projects were ranked as Priority 1 projects, and the remaining 19 were ranked as Priority 2 or Priority 3 projects. The status of the Priority 1 CIP projects was reviewed by the Executive Team, and the status report is attached for the Board's review.

Several projects continued construction activities into the third quarter of FY 2023:

- Enhanced Treatment and Site Upgrade (ETSU) Phase 1A – Aeration Basins Modifications Project and Campus Project
- Standby Power Generation System Upgrade Project
- Irvington Basin Reinforced Concrete Pipe (RCP) Rehabilitation Project
- Force Main Corrosion Repairs Project – Phase 3.

The consultant selection process for the Field Operations Building Seismic Upgrade and Leak Repairs has been postponed primarily due to staffing constraints on both the CIP and Collection Services teams. It is currently estimated that staff will prepare and issue the Request for Proposal in the fourth quarter.

The bids for the Cherry Street Pump Station Improvements Project were rejected in March 2023. Staff decided to look at implementing lesser but critical improvements to the existing pump station to improve its reliability until a developer constructs a new station on Stevenson Boulevard in the next 4 to 5 years.

Staff issued Requests for Proposal for the condition assessment and rehabilitation design services for Primary Digester No. 6 and received proposals in March 2023. It is anticipated the condition assessment will begin after the cleaning of Digester No. 6 is completed in spring/summer 2023.

Background

The CIP projects were ranked as Priority 1, 2, or 3 projects based on criteria prepared by staff and approved by the Executive Team. A copy of the criteria used to prioritize the projects is attached for the Board's reference. The criteria have been updated to include the studies utilized in identifying projects and to reference example projects from the current CIP budget.

Also attached is a summary of the ongoing CIP projects at the District during FY 2023.

Previous Board Action

None.

PRE/RC

Attachments: Priority 1 CIP Projects for Fiscal Year 2023 – Status Report
Summary of CIP Projects for Fiscal Year 2023
CIP Project Criteria

Priority 1 CIP Projects for Fiscal Year 2023 – Status Report

	CIP Project	Planned Milestones	Status after 1st Quarter	Status after 2nd Quarter	Status after 3rd Quarter	Status after 4th Quarter
1	Field Operations Building Seismic Upgrade and Leak Repairs	Complete building space programming by June 2023.	Consultant selection process scheduled to begin in 2 nd quarter.	Consultant selection postponed to 3 rd quarter.	Consultant selection postponed to 4 th quarter.	
2	Central Avenue Sanitary Sewer Relocation	Complete the design by March 2023.	Cost sharing agreement received from City. 90% design submittal received in September 2022.	Cost sharing agreement under review. Review of 90% design submittal is complete.	Cost sharing agreement under review. Review of 100% design submittal is underway.	
3	RCP Sewer Rehab (Irvington Basin)	Complete construction by March 2023.	Cured-in-place pipe (CIPP) liner installations completed at 5 of 8 locations.	Construction work is complete. Punchlist work is underway.	Punchlist work is in progress.	
4	Cherry St. PS	Evaluate bids in January 2023.	Bid advertisement began in August 2022.	Bids received and being evaluated.	Bids rejected in March 2023. Decision made not to re-bid project.	
5	Digester No. 6 Insp. and Rehab.	<ol style="list-style-type: none"> 1. Complete condition assessment of the digester 2 months after digester is cleaned. 2. Complete 30% design by June 2023. 	Consultant selection process scheduled to begin in 2 nd quarter.	Consultant selection process is underway.	Consultant proposals received in March 2023.	

Priority 1 CIP Projects for Fiscal Year 2023 – Status Report

	CIP Project	Planned Milestones	Status after 1st Quarter	Status after 2nd Quarter	Status after 3rd Quarter	Status after 4th Quarter
6	Digester No. 7	Complete project closeout by June 2023.	Punchlist work is ongoing. Majority of contract closeout items are with the Contractor.	Punchlist work is ongoing. Majority of contract closeout items are with the Contractor.	Punchlist work is ongoing. Majority of contract closeout items are with the Contractor.	
7	ETSU – Phase 1A – Aeration Basin Modifications	Complete structural modifications to Basins 1 and 3 by June 2023.	Temporary bulkhead installed isolating Aeration Basins 1 & 2. Select demolition of basins 50% complete.	Select demolition of Aeration Basins 1 & 2 complete. Placement of internal new concrete walls commenced.	Placement of new internal concrete walls in Aeration Basins 1 & 2 ongoing.	
8	ETSU – Phase 1A – Aeration Basin No. 8	<ol style="list-style-type: none"> 1. Start-up new West Aeration Basin odor scrubbers by January 2023. 2. Place bottom slab of new Basin 8 by June 2023. 	Odor control equipment submittals approved. Underground improvements for new odor control area completed.	New concrete pads for odor control equipment placed.	Start-up of new West Aeration Basin odor scrubbers occurred in March 2023. Demolition of old odor scrubbers commenced.	
9	ETSU – Phase 1A – Aeration Internal Lift Pumps	<ol style="list-style-type: none"> 1. Complete lift pump submittal process by December 2022. 2. Deliver first pump to site by June 2023. 	Equipment submittals for lift pumps reviewed and returned for updates.	Equipment submittals for lift pumps resubmitted.	Equipment submittals for new lift pumps require resubmittal. One existing lift pump removed and sent to the factory for refurbishment.	

Priority 1 CIP Projects for Fiscal Year 2023 – Status Report

	CIP Project	Planned Milestones	Status after 1st Quarter	Status after 2nd Quarter	Status after 3rd Quarter	Status after 4th Quarter
10	ETSU – Phase 1A – Blower 7-10 Replacement	Deliver 3 new blowers by June 2023.	Submittals approved. Blowers being manufactured.	Blower factory acceptance testing completed.	Shutdowns to begin demolition of existing blowers in planning phase.	
11	ETSU – Phase 1A – Plant 12kV Switchgear	Acquire PG&E approvals for new switchgear by December 2022.	Received review comments from PG&E on new equipment, awaiting response from manufacturer.	Manufacturer working on a revised submittal for PG&E.	Revised manufacturer submittal sent for PG&E review in February 2023.	
12	ETSU – Phase 1A – Campus Building	Place structural steel by June 2023.	Notice to Proceed issued 8/1/22. Rough grading of site 75% complete.	Deep foundation under building slab completed. Installation of piping and conduit under building slab commenced.	Building slab placed in March 2023.	
13	ETSU – Phase 1B – Effluent Facilities	Receive 95% Design Submittal by June 2023.	Multiple design workshops held with designer and staff.	Multiple design workshops held with designer and staff.	Multiple design workshops held with designer and staff.	
14	ETSU – Phase 1B – Secondary Clarifiers	Receive 95% Design Submittal by June 2023.	Multiple design workshops held with designer and staff.	Multiple design workshops held with designer and staff.	Multiple design workshops held with designer and staff.	
15	Force Main Corrosion Repairs – Phase 3	Complete construction by December 2022.	Force main dewatering completed in July 2022. Field work in progress.	Construction work is complete. Punchlist work is underway.	Punchlist work is in progress.	

Priority 1 CIP Projects for Fiscal Year 2023 – Status Report

	CIP Project	Planned Milestones	Status after 1st Quarter	Status after 2nd Quarter	Status after 3rd Quarter	Status after 4th Quarter
16	Force Main Corrosion Repairs – Phase 4	<ol style="list-style-type: none"> 1. Complete the design by February 2023. 2. Award construction contract by May 2023. 	Design scheduled to begin in 2 nd quarter.	Design is underway.	90% design submittal received and reviewed.	
17	Standby Power Generation System Upgrade	<ol style="list-style-type: none"> 1. Complete concrete work for Standby Power Building foundation by December 2022. 2. Complete structural steel erection for the new Standby Power Building by May 2023. 3. Set and anchor standby power generation and switchgear equipment by June 2023. 	Site demolition and rough grading work completed. Installation of underground utilities and concrete work for Standby Power Building foundation in progress.	Installation of underground utilities and concrete work for Standby Power Building foundation is ongoing.	Concrete work for Standby Power Building foundation is complete. Installation of building's structural steel is in progress.	
18	WAS Thickeners	<p>After evaluating the level of effort needed to support several construction projects at the treatment plant, staff decided to postpone construction to begin in Fiscal Year 2025.</p> <p>Complete additional scope evaluation by June 2023.</p>	<p>Project on hold until Fiscal Year 2025.</p> <p>Additional scope evaluation scheduled to begin in 2nd quarter.</p>	<p>Project on hold until Fiscal Year 2025.</p> <p>Board authorization for additional scope evaluation scheduled for early 3rd quarter.</p>	<p>Project on hold until Fiscal Year 2025.</p> <p>Additional scope evaluation in progress.</p>	

SUMMARY OF CIP PROJECTS FOR FISCAL YEAR 2023

Project Type	Number of Projects	Project Name
Administrative Facilities	4	<ol style="list-style-type: none"> 1. Cathodic Protection Improvements 2. ETSU – Phase 1A – Campus Building 3. Field Operations Building Seismic Upgrade and Leak Repairs 4. Solar Panels/Inverters Replacement at Irvington
Collection System	5	<ol style="list-style-type: none"> 1. Central Avenue Sanitary Sewer Relocation 2. FY 21 Cast Iron/Piping Lining 3. FY 23 Cast Iron/Piping Lining 4. Gravity Sewer Rehabilitation/Replacement 5. RCP Sewer Rehabilitation (Irvington Basin)
Transport System	5	<ol style="list-style-type: none"> 1. Cherry St. PS 2. Force Main Corrosion Repairs – Phase 3 3. Force Main Corrosion Repairs – Phase 4 4. Irvington PS Pumps and VFDs 5. Newark and Irvington PS Chemical System Improvements
Treatment Plant	23	<ol style="list-style-type: none"> 1. Aeration Blower 11 and East Blower Bldg. Improvements 2. Alvarado Influent PS Improvements 3. Centrifuge Building Improvements 4. Digester No. 6 Inspection and Rehabilitation 5. Digester No. 7 6. Emergency Outfall Outlet Improvements 7. ETSU – Phase 1A – Aeration Basin Modifications 8. ETSU – Phase 1A – Aeration Basin No. 8 9. ETSU – Phase 1A – Aeration Internal Lift Pumps 10. ETSU – Phase 1A – Blower 7-10 Replacement 11. ETSU – Phase 1A – Plant 12kV Switchgear 12. ETSU – Phase 1A – Site Drainage Improvements 13. ETSU – Phase 1B – Secondary Clarifiers 14. ETSU – Phase 1B – Effluent Facilities 15. ETSU – Phase 1B – Switchboard 4 Replacement 16. Miscellaneous Improvements 17. Plant Fiber Optic Network 18. PLC Replacement

SUMMARY OF CIP PROJECTS FOR FISCAL YEAR 2022

Project Type	Number of Projects	Project Name
		19. Secondary Digester No. 1 Inspection and Rehabilitation 20. Sodium Hypochlorite Loop Improvements 21. Standby Power Generation System Upgrade 22. Switchboard 3 Replacement and MCC 25 Replacement 23. WAS Thickeners

Total: 37

CIP PROJECT CRITERIA

Priority 1 Projects

1. Project to repair or prevent an imminent critical infrastructure failure that could result in a threat to the public or result in permit non-compliance.
2. A project designed to address public health and safety or employee health and safety.
3. Project to provide additional capacity in order to allow connection to the District system or to prevent a potential wet weather overflow from occurring.
4. Projects that have a deadline tied to receiving a loan or grant funding.
5. Projects where we have made a timeline commitment to a customer or other outside stakeholder.
6. A project in which the District may suffer financial losses or claims should the project be delayed.
7. A project which is part of a sequence of projects whose delay could result in delays to other projects at USD or other agencies.
8. A project in which an internal commitment has been made to provide a facility that significantly impacts another group from efficiently and effectively carrying out their core work. (Not a “nice to have” type project).

These criteria can apply to a study, design, or construction project.

Priority 2 Projects

1. These are planned projects related to the replacement of electrical and mechanical equipment identified by the Plant Asset Condition Assessment Study and the Pump Station Asset Condition Assessment Study – this equipment is not in imminent danger of failure but needs to be replaced at a future date.
2. These are planned pipeline rehab/replacement projects that are identified either by the drainage basin capacity and condition assessment studies or by the Maintenance staff and need to be completed to improve the condition of existing sewers to safeguard against potential maintenance problems – these pipelines are not in imminent danger of failure.
3. These projects do not have any immediate negative impacts on either other agencies or other projects.
4. Examples: Cast Iron/Pipe Lining, Gravity Sewer Rehabilitation/Replacement, Irvington PS Pumps and VFDs Replacement, and Primary Clarifiers 5 and 6 Rehabilitation.

CIP Project Criteria

Priority 3 Projects

1. These are capacity projects identified by the master plans, capacity studies, and drainage basin capacity and condition assessment studies that will address future capacity needs of the District.
2. These projects are place holders and need to be defined at a future date.
3. The District will not suffer any financial loss or claim if these projects are delayed.
4. Examples: Force Main Rehabilitation, Standby Power Generator No. 4, Thickeners 3 and 4 Rehabilitation, and Waste Recycling and Alternative Energy.



**MAY 22, 2023
BOARD OF DIRECTORS MEETING
AGENDA ITEM # 15**

TITLE: Third Quarterly Report on the Capital Improvement Program for Fiscal Year 2023 *(This is an Information Item)*

SUBMITTED: Paul R. Eldredge, General Manager/District Engineer
Raymond Chau, Technical Services Work Group Manager

Recommendation

Information only.

Discussion

In June 2022, the Board approved the Capital Improvement Program (CIP) budget for Fiscal Year (FY) 2023 in the amount of \$68,830,200 for the design and construction of 37 CIP projects. The expenditures through the third quarter of FY 2023 are shown on the attached budget graphs.

The total CIP expenditures through March 31, 2023 were below the cash flow estimates through the end of the third quarter by approximately \$1.2 million, or 3.1 percent. The Enhanced Treatment and Site Upgrade (ETSU) Phase 1A Aeration Basin Modifications and Campus projects continued in the early phases of construction this quarter. It is expected the construction activities of the two ETSU projects will continue to ramp up this year. There were some delays to portions of the work due to excessive wet weather during this quarter, however these delays are not expected to affect the completion dates for the project substantially. Anticipated electrical equipment procurement delays continue to be a substantial concern, however they have not yet impacted the project schedules.

Also, there were several projects that continued construction activities into the third quarter. The projects with the larger variances through the third quarter are:

- ETSU Phase 1A Aeration Basin Modifications - \$5,808,000
- ETSU Phase 1A Campus Building +\$4,894,000
- RCP Sewer Rehabilitation (Irvington Basin) +\$964,000
- Standby Power Generation System Upgrade +\$369,000

Based on current projections, it is anticipated the project expenditures will be below the budgeted amounts by approximately \$1.8 million, or 2.6 percent, at the end of the FY.

Background

The total CIP expenditures between July 1, 2022 and March 31, 2023 were below the cash flow estimates through the third quarter of FY 2023 by approximately \$1.2 million. The projects with the higher variances from the cash flow estimates are listed in the table below.

Project	Approximate Variance through the Third Quarter (x \$1,000)	Comments
ETSU – Phase 1A <ul style="list-style-type: none"> • Aeration Basin Modifications • Aeration Basin No. 8 • Aeration Internal Lift Pumps • Blower 7-10 Replacement • Plant 12kV Switchgear 	-5,808	The contractor continued placing new walls for Aeration Basin #1 & 3 and constructing underground utilities for the new 12 kV Switchgear SE. Contractor commenced demolition of existing West Aeration Basin Odor Control area. Contractor completed start-up of the new West Aeration Odor Control Area in a temporary configuration. There were some delays to portions of the work due to excessively wet weather during this quarter. Delays in procurement of the Odor Scrubber equipment reduced the actual expenditures.
ETSU – Phase 1A <ul style="list-style-type: none"> • Campus Building • Site Drainage Improvements 	+4,894	The contractor placed the building slab slightly earlier than staff anticipated. Contractor began installing new site underground piping.
ETSU – Phase 1B <ul style="list-style-type: none"> • Secondary Clarifiers • Effluent Facilities • Switchboard 4 Replacement 	-975	Phase 1B design workshops with staff were ongoing.

Project	Approximate Variance through the Third Quarter (x \$1,000)	Comments
Newark and Irvington PS Chemical System Improvements	-365	The project's construction phase was postponed. In January 2023, USD rejected the bids received for the construction contract. Staff will evaluate the project scope to reduce cost, which will include the re-design of the odor control system using the carbon adsorption technology.
RCP Sewer Rehabilitation (Irvington Basin)	+964	<p>Some construction expenditures were expected in FY 22. The Contractor required more time than expected to complete the submittals process, prepare the traffic control plans, and obtain the encroachment permits. Therefore, most of the construction expenditures anticipated in FY 22 were realized in FY 23.</p> <p>The Contractor substantially completed the project and commenced with punch list work in this quarter.</p>
Standby Power Generation System Upgrade	+369	The Contractor completed the installation of some major underground utilities and started the preparation of the Substation No. 2 replacement slightly ahead of schedule.
Other Projects	-288	
Total Variance through the Third Quarter	-1,209	

The Other Projects category included the following projects that were in planning, design, construction, or closeout phase during FY 2023:

1. Aeration Blower 11 and East Blower Bldg. Improvements
2. Alvarado Influent Pump Station Improvements
3. Cathodic Protection System Improvements
4. Central Avenue Sanitary Sewer Relocation
5. Centrifuge Building Improvements
6. Cherry Street Pump Station
7. Digester No. 6 Inspection and Rehabilitation
8. Digester No. 7
9. Emergency Outfall Outlet Improvements
10. Field Operations Building Seismic Upgrade and Leak Repairs
11. Force Main Corrosion Repairs – Phase 3
12. Force Main Corrosion Repairs – Phase 4
13. FY 21 Cast Iron/Piping Lining
14. FY 23 Cast Iron/Piping Lining
15. Gravity Sewer Rehabilitation/Replacement
16. Irvington Pump Station Pumps and VFDs – Portable VFD
17. Miscellaneous Improvements
18. Plant Fiber Optic Network
19. PLC Replacement
20. Secondary Digester No. 1 Inspection and Rehabilitation
21. Sodium Hypochlorite Loop Improvements
22. Solar Panels/Inverters Replacement at Irvington
23. Switchboard 3 and MCC 25 Replacement
24. WAS Thickeners

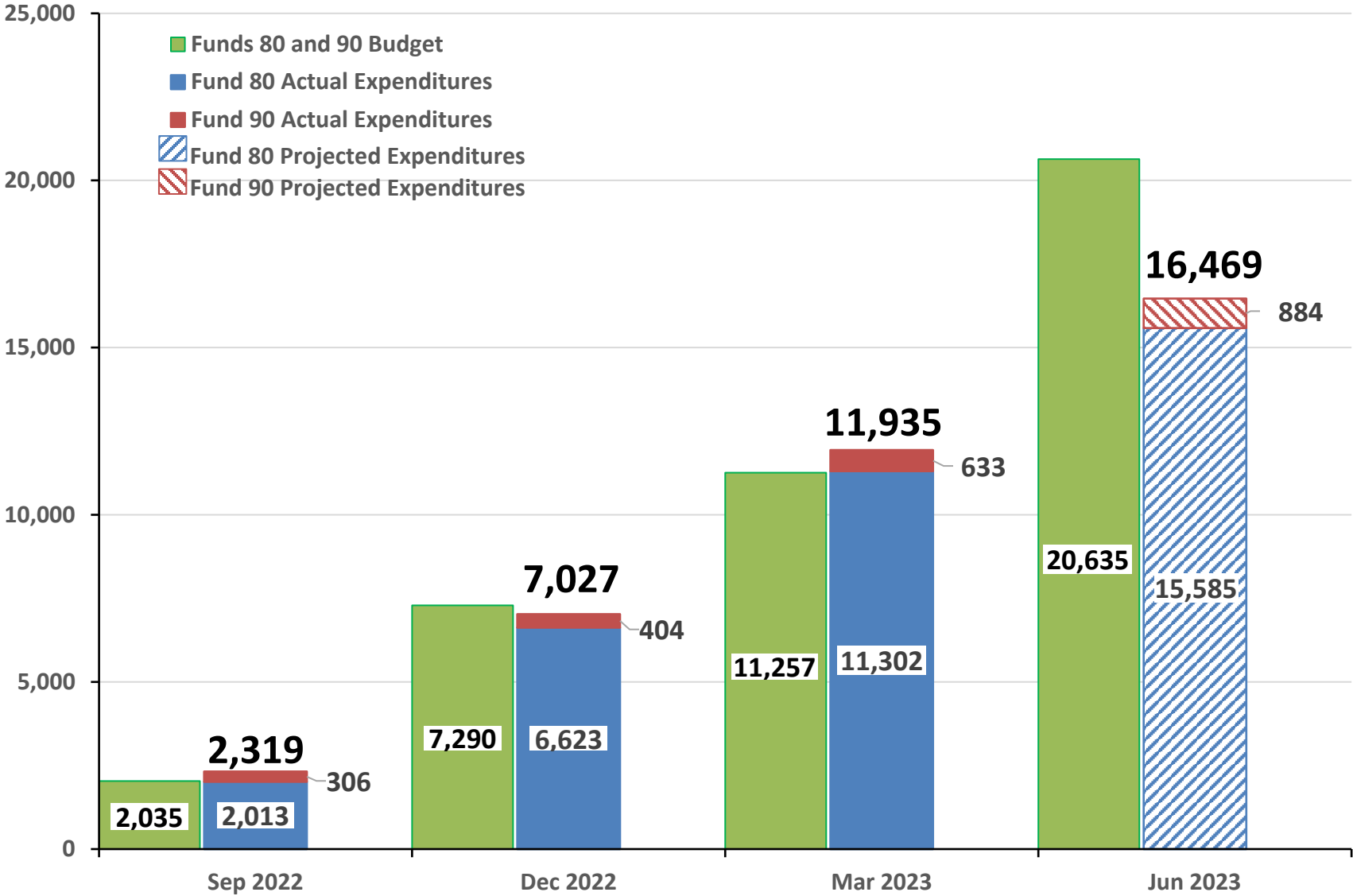
The attached graphs depict actual expenditures versus approved budget for the Capacity Fund 90, the Renewal and Replacement Fund 80, and the two combined funds. The graphs show the expenditures of the ETSU projects, the CIP projects without the ETSU projects, and the combined expenditures of both programs.

Previous Board Action

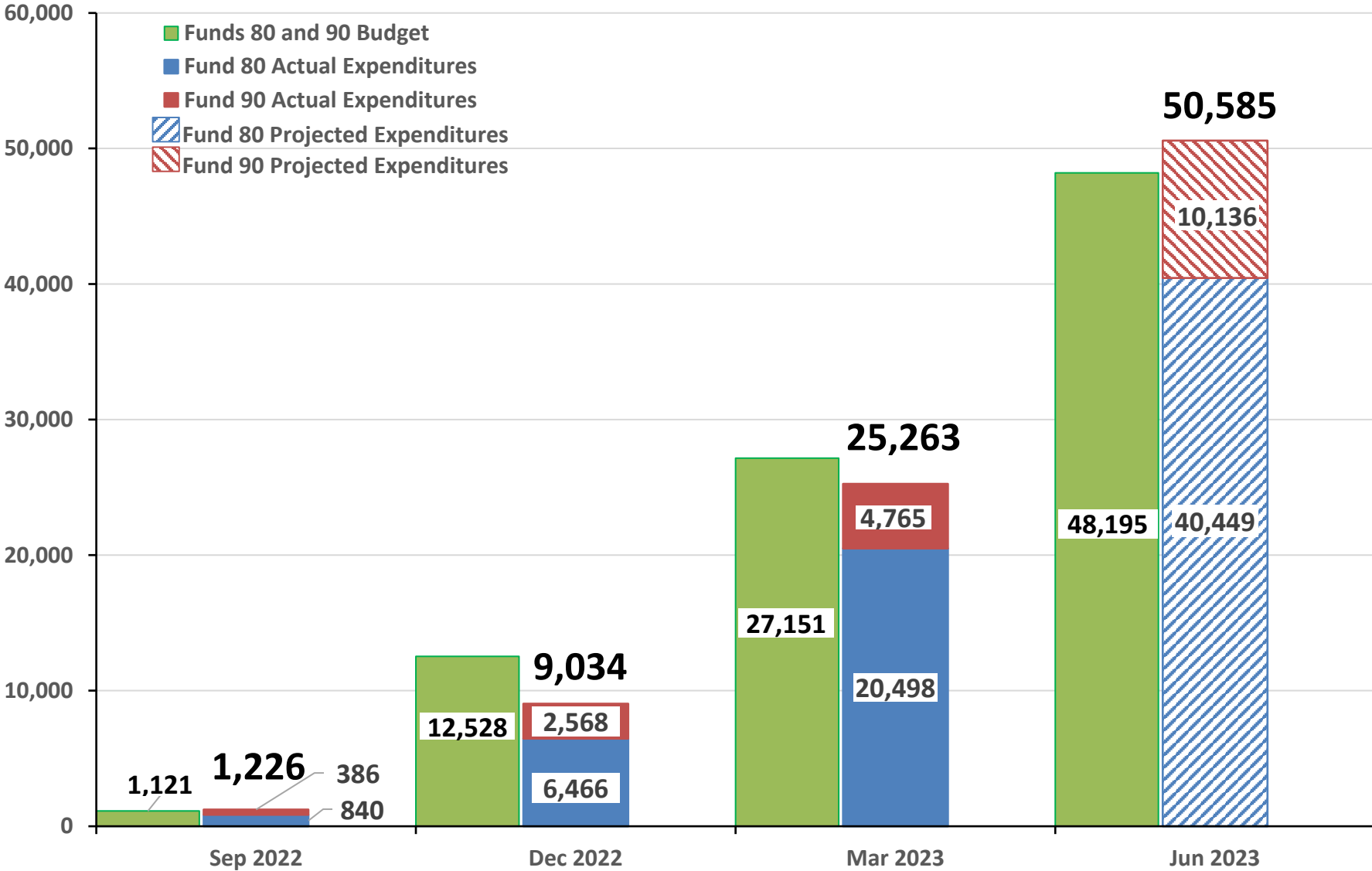
None.

Attachments: Budget Graphs

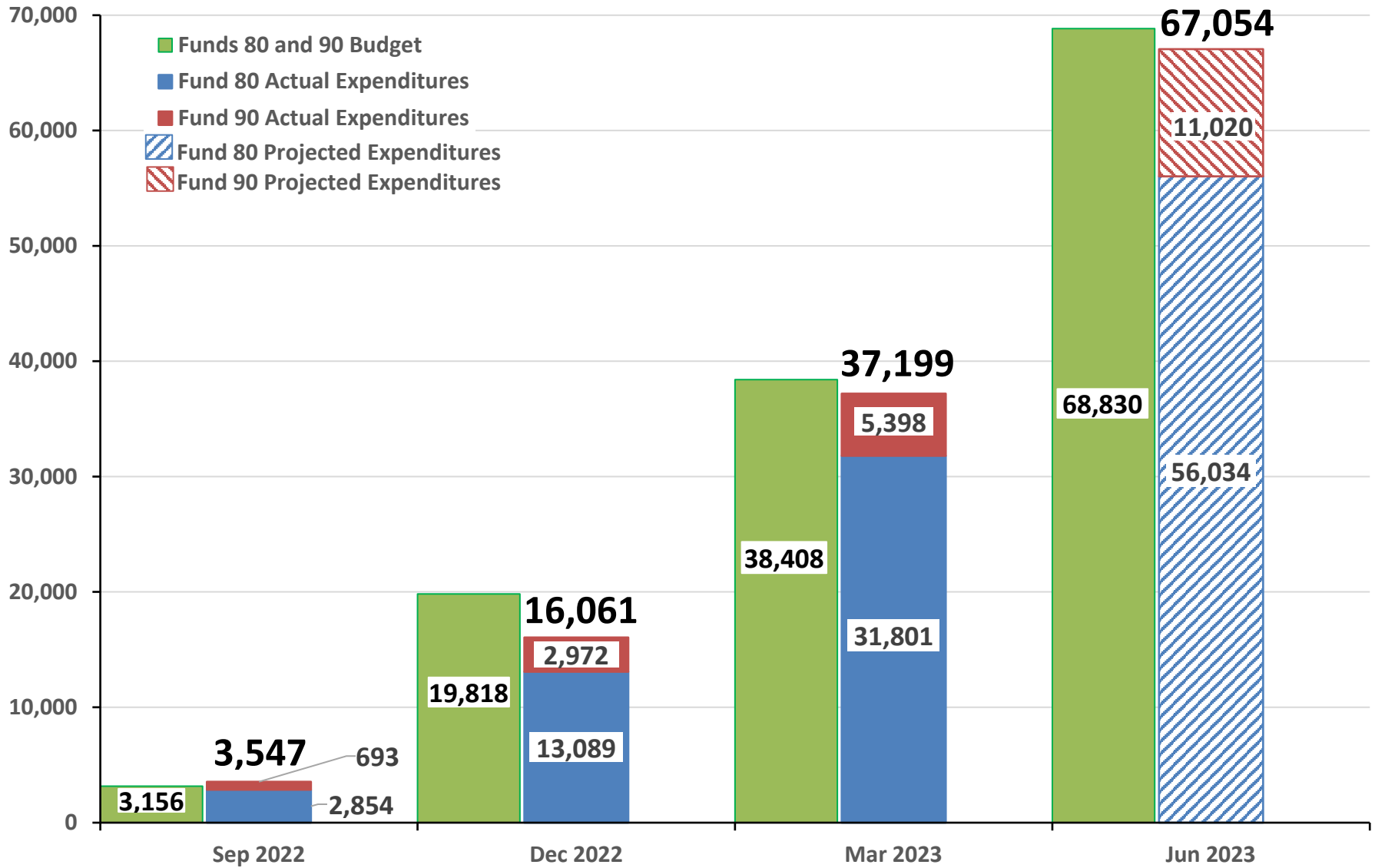
CIP Budget vs. Actual (Does Not Include ETSU) (x \$1,000)



ETSU Budget vs. Actual (x \$1,000)



CIP and ETSU Combined Budget vs. Actual (x \$1,000)





Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

**MAY 22, 2023
BOARD OF DIRECTORS MEETING
AGENDA ITEM # 16**

TITLE: Third Quarterly Report on the Enhanced Treatment and Site Upgrade Program for FY23 (This is an information item)

SUBMITTED: Paul R. Eldredge, General Manager/District Engineer
Ric Pipkin, Enhanced Treatment and Site Upgrade Program Manager
Gus Carrillo, Enhanced Treatment and Site Upgrade Assistant PM
ETSU Steering Committee (Armando Lopez, Raymond Chau, Robert Simonich)

Recommendation
Information only.

Discussion

Staff prepared the attached Enhanced Treatment and Site Upgrade (ETSU) Quarterly Program Management Report for the third quarter of fiscal year 2023. Part 1 of the report provides an executive summary of the ETSU Program status, and the Program Dashboard as currently shown on the District Website. These reports are coordinated to coincide with the CIP quarterly reports to the Board.

Background

Staff and its consultants developed the “Alvarado Wastewater Treatment Plant (WWTP) Enhanced Treatment and Site Upgrade (ETSU) Quarterly Program Management (PM) Report” to provide the Board and interested public an overview document for tracking the progress of the ETSU program. This report looks at five key performance indicators, which include:

- Schedule
- Progress

- Budget
- Cashflow
- Reportable accidents

The format for the Alvarado WWTP ETSU Quarterly PM Report was developed with input from both the ETSU Steering Committee and the ETSU Ad Hoc Board Committee. The report includes an informational dashboard which is posted on the District’s website at the following address: <https://unionsanitary.ca.gov/ETSU>. Staff began utilizing the report beginning with the first Quarter of FY 22. ETSU quarterly reports will be coordinated to coincide with the CIP quarterly reports.

The ETSU Program is the culmination of the District’s planning efforts and is based on the outcomes and findings of the Plant Solids System/Capacity Assessment – Phases 1 and 2, Administration/Control/FMC Buildings Evaluation, the Effluent Management Study and the Secondary Treatment Process Improvements evaluation. The program includes projects recommended for implementation that will be phased to address both immediate drivers (poor sludge settleability, treatment capacity, effluent disposal and aging infrastructure), while preparing for future requirements such as nutrient regulations for discharge in the Bay that are currently being considered by the Regional Water Quality Control Board.

The Phase 1 and 2 projects included in this program were presented to the Board during the workshop held on May 8, 2019, and are summarized in the Final Report which was approved by the Board on August 26, 2019. A third phase of projects was briefly outlined that covered the timeframe from 2040 to 2058 and included potentially stricter nutrient limits in the more distant future. The projects identified in the ETSU Program and modified by the 30% design report to be implemented in the near-term (the next seven to ten years) are included in Phase 1 and are summarized in the table below.

Phase 1A	Aeration Basin Modifications	Retrofitting existing Aeration Basins 1 through 7 and construction of an 8 th aeration basin with the flexibility to operate initially with an anaerobic selector during the implementation phase and transitioning to a biological nutrient removal (BNR) process following completion of the Phase 1B Project.
Phase 1A	Campus Building (Admin, FMC, Ops)	Construction of a new combined Campus Building, including associated site and utility improvements.
Phase 1B	Secondary Clarifiers	Construction of four new 160-foot diameter secondary clarifiers, mixed liquor control box, and centralized RAS pump station.

Phase 1B	Effluent Facilities	Construction of new chlorination/dechlorination contact basins, effluent pump stations, and relocation of existing effluent force main.
Phase 1C	Plant Equalization Storage	Retrofitting existing Secondary Clarifiers 1 through 4 to operate as primary effluent equalization basins.

The full version of the ETSU Program report, including appendices, can be found at the following link: <https://unionsanitary.ca.gov/ETSU>.

Previous Board Action

None

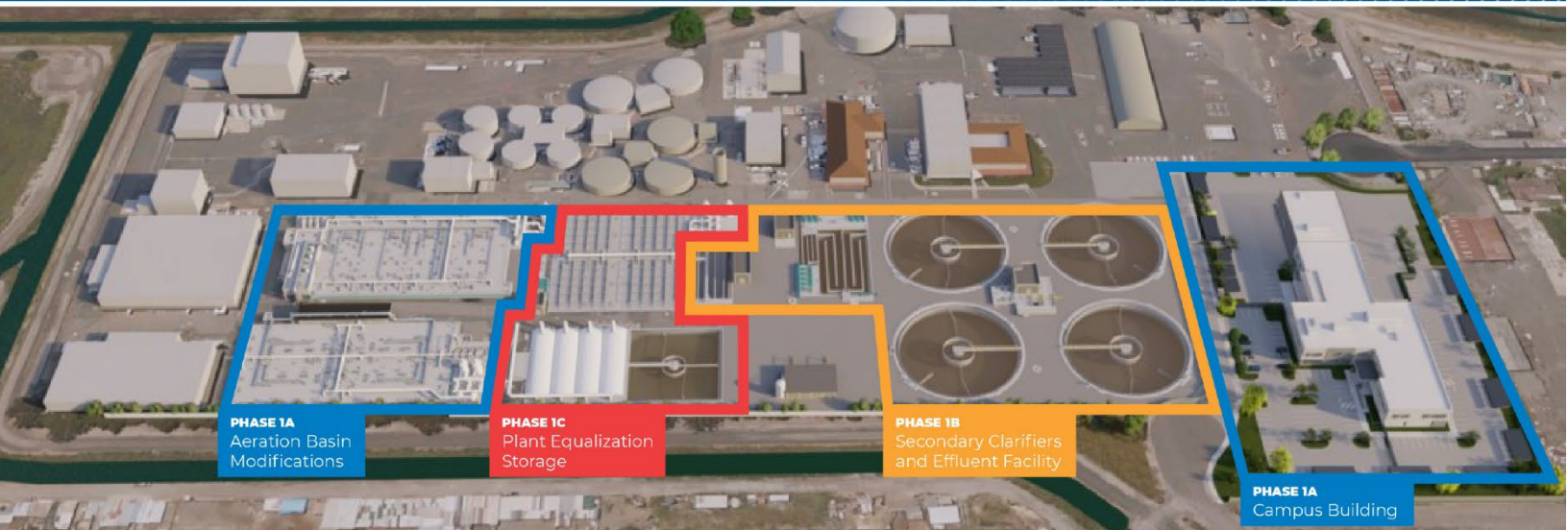
PRE/RP/CB

Attachment: Alvarado WWTP ETSU Quarterly PM Report for Fiscal Year 23 Quarter No. 3



USD TREAT
PROTECT
PRESERVE
est. 1918
TRI-CITY WASTEWATER

Alvarado Wastewater Treatment Plant Enhanced Treatment and Site Upgrade Quarterly Program Management Report



Fiscal Year 2023 – Quarter No. 3

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Enhanced Treatment and Site Upgrade Program

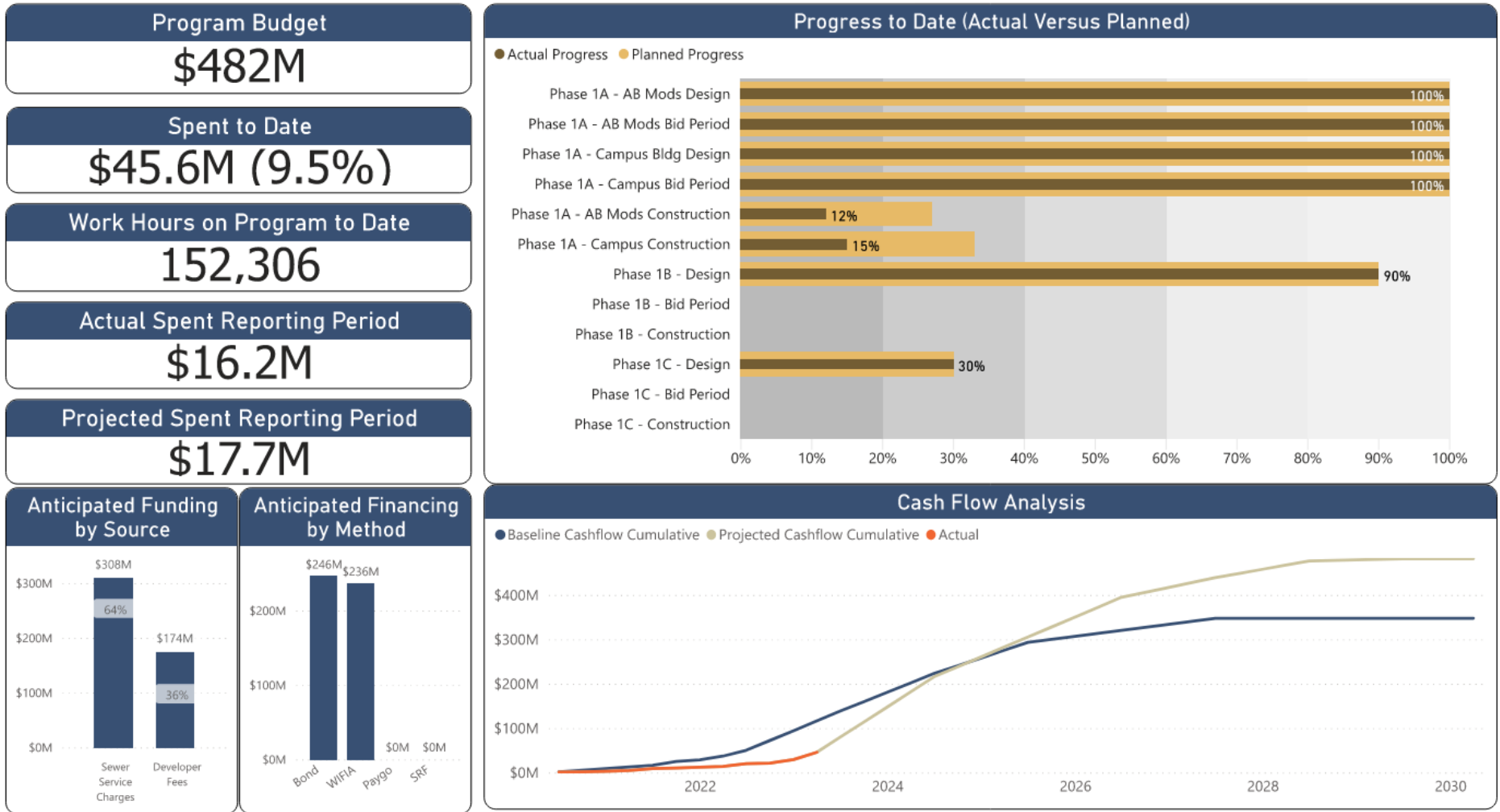







Figure 1-1: Program Dashboard

1.1 Program Management Status Summary

Table 1-1 provides a summary of the ETSU Program as of Fiscal Year 2023 – Quarter No. 3.

Table 1-1: Program Summary

Key Performance Indicator	Description	Current	Variance	Status	Comment
1. Schedule	Relationship between planned and actual schedule	Milestone on schedule	N/A		There are no approved changes to the planned construction schedule. See Part 1.3 Program Management Key Concerns for potential construction delays
2. Progress	Progress to Date	In progress	N/A		Aeration Basin Modifications and Campus Field construction activities continued.
3. Budget	Relationship between planned and actual budget	Within budget	None		Funds spent to date are within planned budget.
4. Cashflow	Actual funds spent versus projected for period	Matched Projected	None		Projected costs matched actual costs for the quarter.
5. Reportable Accidents	Number of OSHA reportable accidents	0	N/A		There are no reportable accidents to date.

1.1.1 Schedule

A summary of the program schedule is presented in Table 1-2.

Table 1-2: Program Schedule Summary

Program Phase Milestone	Planned Milestone Start Date	Variance	Status	Actual Milestone Start Date
Phase 1A – Aeration Basin Modifications (AB Mods) Design	January 2020	None	■	January 2020
Phase 1A – Campus Building Design ¹	March 2020	2 months	■	May 2020
Phase 1A – AB Mods Bid Period	September 2021	None	■	September 2021
Phase 1A – Campus Building Bid ² Period	December 2021	3 months	■	March 2022
Phase 1A – AB Mods Construction	January 2022	None	■	January 2022
Phase 1A – Campus Building Construction	July 2022	None	■	June 2022
Phase 1B – Secondary Clarifiers and Effluent Facilities (SC and EF) Design	January 2021	None	■	January 2021
Phase 1B – SC and EF Bid Period	May 2024	None	■	TBD
Phase 1B – SC and EF Bid Construction	August 2024	None	■	TBD
Phase 1C – Primary Effluent Equalization (PE EQ) Design	August 2024	None	■	TBD
Phase 1C – PE EQ Bid Period	August 2027	None	■	TBD
Phase 1C – PE EQ Construction	November 2027	None	■	TBD

■ Milestone on schedule

■ Milestone within 2 months of schedule













■ Milestone >2 months behind schedule

1. The start of the Campus design was delayed due to the onset of the Covid 19 Pandemic
2. The Campus bid was behind schedule for a variety of reasons, specifically the amount of additional time required to finalize the interior layouts and fit and finish.

1.1.2 Progress

Table 1-3 summarizes the progress of the ETSU Program as of Fiscal Year 2023 – Quarter No. 3.

Table 1-3: Program Progress





Program Phase Milestone	Progress to Date	Status
Phase 1A – AB Mods Design	100%	
Phase 1A – Campus Building Design	100%	
Phase 1A – AB Mods Bid Period	100%	
Phase 1A – Campus Building Bid Period	100%	
Phase 1A – AB Mods Construction	11.8%	
Phase 1A – Campus Building Construction	14.7%	
Phase 1B – SC and EF Design	90%	
Phase 1B – SC and EF Bid Period	0%	
Phase 1B – SC and EF Bid Construction	0%	
Phase 1C – PE EQ Design	30%	
Phase 1C – PE EQ Bid Period	0%	
Phase 1C – PE EQ Construction	0%	




-  Complete
-  In Progress
-  Not Started

1.1.3 Budget

Table 1-4 summarizes the budgeted amounts and funds spent to date for the ETSU Program.

Table 1-4: Program Budget Summary

Program Phase	Funds Spent to Date	Program Budget	Funds Spent vs. Baseline Budget to Date	Budget Status
Phase 1A – Aeration Basin Modifications	\$24.44 M	\$139.4M	17.54 %	
Phase 1A – Campus Building	\$17.84 M	\$102.9M	17.34 %	
Phase 1B – SC and EF	\$3.34 M	\$200.0M	1.67 %	
Phase 1C – PE EQ	\$0	\$39.6M	0%	

-  *Estimated cost within planned budget*
-  *Estimated cost within 5% of planned budget*
-  *Estimated cost greater than 5% of planned budget*

1.1.4 Funding

Table 1-5 summarizes the anticipated funding sources and funds spent to date for the ETSU Program.

Table 1-5: Summary of Funding Sources

Funding Source	Funds Spent to Date from Sources	Anticipated Funding Amount (Percent of Total Funding)	Comments
District Funds	\$10.4 M	\$0 (0%)	District funds used to pay for design services prior to Sept. 2021.
Bonds	\$ 35.24 M	\$246M (51%)	Bond funding is assumed to be baseline funding source.
CWSRF	\$0	\$0 (0%)	CWSRF applications for Phases 1A, 1B, and 1C were resubmitted in Dec. 2022.
WIFIA	\$0	\$236M (49%)	WIFIA loan closed in Dec. 2021; low interest funding for 49% of program.


1.1.5 Reportable Accidents

Table 1-6 summarizes the OSHA reportable accidents during the duration of the ETSU program.

Table 1-6 Reportable Accidents

Reportable Accident	Program Phase	Incident Description	Date Reported	Cause	Resolution	Follow Up Status
Issue No. 1	N/A	N/A	N/A	N/A	N/A	N/A

 *Follow Up Complete*

 *Follow Up in Progress*

 *Follow Up Required*

1.2 Major Accomplishments During Reporting Period

Table 1-7 summarizes major program accomplishments during Fiscal Year 2023 – Quarter No. 3.

Table 1-7: Major Program Accomplishments

Activity	Status	Next Milestone
Phase 1A – Aeration Basin Modifications	Contractor continued placing new walls for Aeration Basin #1 & 3 and constructing underground utilities for the new 12 kV Switchgear SE. Contractor commenced demolition of existing West Aeration Basin Odor Control area. Contractor completed start-up of the new West Aeration Odor Control Area in a temporary configuration.	Construction final completion schedule for January 2026.
Phase 1A – Campus Building	Contractor placed the building slab. Installation of CMU block commenced for the new FMC Shop. Contractor continues installation of new storm drain underground piping.	Move-in anticipated late 2024
Phase 1B – Secondary Clarifier and Effluent Facilities	Phase 1B design workshops with staff ongoing.	Design completion anticipated May 2024.

1.3 Program Management Key Concerns

Table 1-8 summarizes the status of key program elements that could impact the overall success of the ETSU Program.

Table 1-8: Program Key Concerns

Activity	Status	Comments
Modifications to ACWD Water Main	Design Consultant resubmitted to ACWD during this quarter. The Fire Marshall requested an analysis and confirmation of fire water service pressure at each of the existing buildings. Design is currently in review by ACWD.	ACWD review and approval of new water main, meters, and easement must be completed prior to construction of the new lines during the Campus Building project.
Electrical Equipment Delays	Phase 1A AB Mods major electrical equipment construction submittal process continued during this quarter. The Contractor provided a revised submission to PG&E in February 2023 for the remaining switchgear that requires approval.	No delivery date will be guaranteed by supplier until submittal is approved by PG&E. Preliminary delivery dates from suppliers are expected to cause delays to construction schedule. Extent of delay will be evaluated once delivery dates determined.

Detailed Program Management Information

1.4 Detailed Program Costs

The following tables show the detailed costs to date for contracts for each element of the ETSU Program.

Table 2-1: Phase 1A – Aeration Basin Modifications Cost Summary (through March 2023)

Consultant / Contractor	Phase	Actual Expenditures to Date	Total Contracted Cost	Contract Expended to Date (%)
Hazen and Sawyer	Design	\$ 7,575,893.21	\$7,601,955	99.65 %
Jacobs Engineering	Design	\$ 10,683	\$10,703	99.8 %
Psomas	Design/Construction	\$ 1,153,803.17	\$6,777,552	17.02 %
W. M. Lyles	Construction	\$ 14,340,410.26	\$121,040,201	11.84 %
Hazen and Sawyer	Construction	\$ 1,078,031.54	\$3,924,756	27.46 %

Table 2-2: Phase 1A – Campus Building Cost Summary (through March 2023)

Consultant / Contractor	Phase	Actual Expenditures to Date	Total Contracted Cost	Contract Expended to Date (%)
Hazen and Sawyer (Burks Toma Architects)	Design	\$3,730,672.35	\$3,737,412	99.8 %
Psomas	Design/Construction	\$1,161,215.43	\$4,208,731	27.6 %
Zovich Construction	Construction	\$ 11,266,305.73	\$ 76,375,000	14.75 %
Hazen and Sawyer (Burks Toma Architects)	Construction	\$ 1,111,807.64	\$ 4,649,745	23.91 %

Table 2-3: Phase 1B – SC and EF Cost Summary (through March 2023)

Consultant / Contractor	Phase	Actual Expenditures to Date	Total Contracted Cost	Contract Expended to Date (%)
Hazen and Sawyer	Design	\$ 3,248,247.68	\$7,960,952	39.0 %
HDR, Inc.	Design	\$ 91,997.43	\$ 126,327.00	72.8 %

Table 2-4: Phase 1C – Plant Equalization Summary (through March 2023)

Consultant / Contractor	Phase	Actual Expenditures to Date	Total Contracted Cost	Contract Expended to Date (%)
Hazen and Sawyer	Design	\$ TBD	\$ TBD	0.0 %

Table 2-5: Miscellaneous Program Cost Summary (through March 2023)

Miscellaneous Program Costs	Actual Expenditures to Date	Comments
Phase 1A – AB Mods	\$ 301,396.21	Includes Permits, Time Lapse Equipment, and Contract Documents Printing Cost
Phase 1A – Campus Building & SDPS	\$ 575,831.45	Includes, Permits, Time Lapse Equipment, and Contract Documents Printing Cost
Phase 1B – Secondary Clarifiers	\$7,788.00	Includes, Permits, Time Lapse Equipment, and Contract Documents Printing Cost

1.5 Program Milestone Schedule

Phase	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
1A - AB Mods Design	█	█								
1A - AB Mods Bid Period		█								
1A - AB Mods Construction			█	█	█	█	█			
1A - Campus Design	█	█	█							
1A - Campus Bid Period			█							
1A - Campus Construction			█	█	█					
1B - Design		█	█	█	█					
1B - Bid Period					█					
1B - Construction					█	█	█	█		
1C - Design					█	█	█	█		
1C - Bid Period								█		
1C - Construction									█	█

2. Program Key Performance Indicator Descriptions

Five (5) KPIs were established to gauge the progress of the program. These KPIs represent various success factors associated with program management and delivery phases and are summarized in Figure 3-1 and Table 3-1.

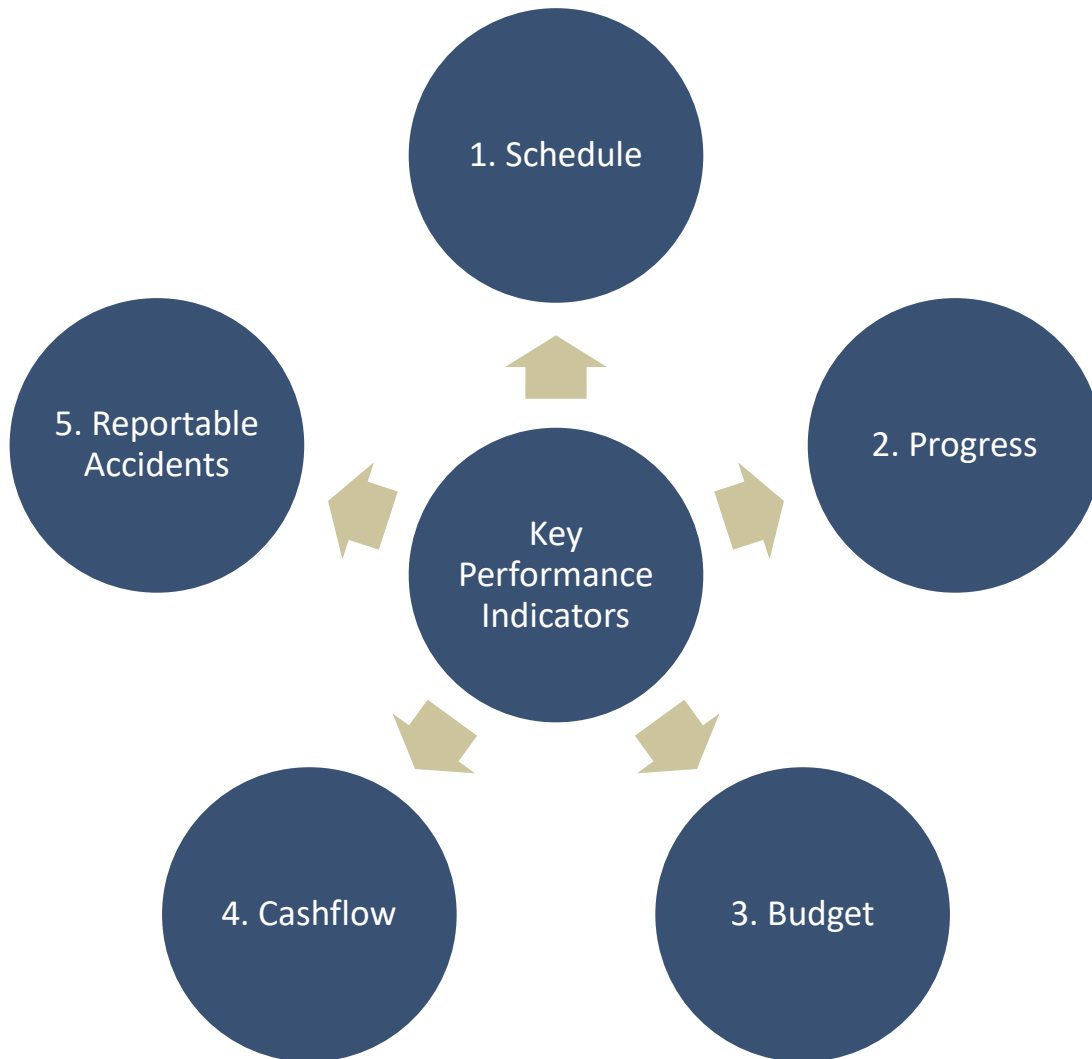





Figure 3-1: Key Performance Indicators of the ETSU Program

Table 3-1: Key Performance Indicator Metrics

Key Performance Indicator	Description	Overall Program Status		
				
1. Schedule	Relationship between planned and actual schedule	Milestone on schedule	Milestone within 2 months of schedule	Milestone >2 months behind schedule
2. Progress	Progress to Date	Complete	In Progress	Not Started
3. Budget	Relationship between planned and actual budget	Funds spent are within planned Budget	Funds spent are within 5% of planned Budget	Funds spent are >5% above planned Budget
4. Cashflow	Actual funds spent versus projected for period	Funds spent are within +/- 10% of projected spent	Funds spent are within +/- 20% of projected spent	Funds spent are more than +/- 20% of projected spent
5. Reportable Accidents	Number of OSHA reportable accidents	0	1-2	>2



Summary of the EBDA Commission Meeting Thursday, April 20, 2023, at 4:00 p.m.

- Commissioners Andrews, Azevedo, Johnson, Lathi, and Simon, were present. This meeting was conducted at the Oro Loma Sanitary District, 2655 Grant Avenue, San Lorenzo, CA 94580.
- Commissioner Lathi moved to approve the Commission Meeting Minutes of March 17, 2023, the Special Commission Meeting Minutes of March 30, 2023, the List of Disbursements for March 2023, and the Treasurer’s Report for March 2023. The motion was seconded by Commissioner Simon and carried 5-0, by roll call vote.

Ayes: Commissioners Andrews, Azevedo, Lathi, Simon, Johnson
Noes: None
Absent: None
Abstain: None

- The Commission unanimously approved the reports from the Financial Management, Operations & Maintenance, and Personnel Committees. The following items were discussed:
- **General Managers Report**
The General Manager (GM) noted the Bruce Wolfe Memorial Scholarship application period is open through Sunday, May 14, 2023. The GM then reported she participated in a session on nutrients at the California Water Environment Association (CWEA) Annual Conference, where she discussed Nature-based Solutions opportunities at the EBDA member agency facilities.
- **Manager’s Advisory Committee**
The GM reported the MAC discussed the Strategic Planning timeline and suggested postponing the next workshop until Summer 2023.
- **Regulatory Affairs**
The GM reported on the April 18 meeting of the Regulatory Affairs Committee. The Committee discussed recent developments in regulations, research, and legislation related to per- and poly-fluoroalkyl substances (PFAS). The Commission appreciated the PFAS synopsis provided in the report and asked staff to share a stand-alone pdf.
- **Financial Management Committee**
The GM reported on the April 17 meeting of the Financial Management Committee. The Committee reviewed the List of Disbursements and Treasurer’s Report and recommended approval. The Committee then discussed the Draft 2023/2024 Budget. Lastly, the Committee supported the adoption of Resolution 23-03 updating the Records Retention Schedule.

- **Resolution to Adopt the Updated Records Retention Schedule**

Commissioner Azevedo moved to approve the item. The motion was seconded by Commissioner Johnson and carried unanimously 5-0, by roll call vote.

Ayes: Commissioners Johnson, Lathi, Simon, Azevedo, Andrews

Noes: None

Absent: None

Abstain: None

- **Operations and Maintenance Committee**

The Operations and Maintenance (O&M) Manager and GM reported on the April 17 meeting of the Operations and Maintenance Committee. The O&M Manager updated the Commission on EBDA's facilities and the status of current projects. The O&M Manager discussed system efficiencies when requesting extra wet weather flow during the March storm events and thanked the member agencies for their cooperation. The GM provided an update on the Cargill project noting that the completion of the Environmental Impact Report target date is June 2023.

- **Personnel Committee**

The GM reported on the March 15 meeting of the Personnel Committee. The Committee reviewed the State Controller's Report and Draft FY 2023/2024 Compensation Plan. The Committee discussed the Personnel Policy edits and recommended language to clarify the policy further. The Committee then reviewed the Commissioner Compensation Policy and suggested additional revisions to the compensable activities. In its review of the Records Retention Schedule, the Committee recommended increasing the retention period for Recordings of Commission Meetings to nine (9) months. The Committee also supported the adoption of Resolution 23-02 increasing the employer contribution under the Public Employees' Medical and Hospital Care Act (PEMHCA).

- **Review of Revisions to the Commission Compensation Policy**

The Commission reviewed the Commissioner Compensation Policy and recommended revising the compensable activities by removing the words "*Commission Chair*" from the last bullet. The Commission also noted the reference to GCC 61047 had not been removed as previously discussed. Staff apologized for not carrying through the deletion of GCC 61047 to the latest version and will incorporate noted changes and bring the Policy to the Commission in May for adoption.

- **Items from Commission and Staff**

USD's General Manager offered to share a feasibility study on the use of reclaimed water. The Commissioners shared details on Earth Day events taking place throughout the jurisdiction on Saturday, April 22. Chair Andrews announced that Bert "Bubba" Manzo will be recognized at the Hearts of Hayward Volunteer Awards and Recognition Event for his service on the Keep Hayward Clean & Green Task Force.

- **Adjournment**

Chair Andrews adjourned the meeting at 4:47 p.m.

**UNION SANITARY DISTRICT
CHECK REGISTER
04/29/2023-05/12/2023**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
184070	5/4/2023	114	800532.10	W.M. LYLES CO	MP - AERATION BASIN MODIFICATIONS	\$1,522,577.97	\$1,522,577.97
184033	5/4/2023	114	2011800426	HAZEN AND SAWYER	ETSU PHASE 1B PROJECT	\$61,791.03	\$423,060.50
	5/4/2023	114	2011801013		MP - AERATION BASIN MODIFICATIONS	\$145,872.44	
	5/4/2023	114	201180118		CAMPUS BUILDINGS (ADMIN, FMC, OPS)	\$215,397.03	
184109	5/11/2023	114	195086	PSOMAS CORP	AERATION BASIN MODIFICATIONS	\$241,454.51	\$241,454.51
184107	5/11/2023	110	170120230502	PACIFIC GAS AND ELECTRIC	SERV TO 02/20/2023 PLANT	\$133,561.28	\$155,737.58
	5/11/2023	170	761520230502		SERV TO 04/25/23 NEWARK PS	\$22,176.30	
184053	5/4/2023	110	1729701	POLYDYNE INC	45,520 LBS CLARIFLOC C-6267	\$91,313.80	\$100,254.17
	5/4/2023	110	1730636		41,040 LBS CLARIFLOC WE-539	\$8,940.37	
184071	5/4/2023	114	800532.10E	W.M. LYLES CO	MP - AERATION BASIN MODIFICATIONS - ESCROW	\$80,135.68	\$80,135.68
184054	5/4/2023	143	194983	PSOMAS CORP	STANDBY POWER SYSTEM UPGRADE	\$60,441.46	\$60,441.46
184022	5/4/2023	173	50174	CDW GOVERNMENT LLC	20 SURFACE PRO CASES	\$1,759.30	\$32,337.32
	5/4/2023	173	528		SWITCHGEAR BLDG SWITCH	\$2,169.29	
	5/4/2023	173	6688		FIREWALL RENEWAL	\$17,985.00	
	5/4/2023	173	88698		1 SUBSTATION SWITCH	\$5,269.02	
	5/4/2023	173	92805		20 SURFACE PRO TABLETS	\$5,154.71	

**UNION SANITARY DISTRICT
CHECK REGISTER
04/29/2023-05/12/2023**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
184067	5/4/2023	110	51060753	UNIVAR SOLUTIONS USA INC	4892.7 GALS SODIUM HYPOCHLORITE	\$7,760.65	\$30,924.58
	5/4/2023	110	51060754		4797.3 GALS SODIUM HYPOCHLORITE	\$7,609.32	
	5/4/2023	110	51064818		4903.6 GALS SODIUM HYPOCHLORITE	\$7,777.94	
	5/4/2023	110	51075448		4902.8 GALS SODIUM HYPOCHLORITE	\$7,776.67	
184128	5/11/2023	123	51382	WECO INDUSTRIES LLC	REPAIRS FOR CCTV CAMERA	\$4,495.39	\$28,594.39
	5/11/2023	123	51427		240 GAL SANAFOM VAPOROOTER	\$24,099.00	
184069	5/4/2023	171	3387	VISTAM INC	SUBSTATION 1 BREAKER MAINTENANCE - SECOND HALF	\$24,988.05	\$24,988.05
184121	5/11/2023	110	51082995	UNIVAR SOLUTIONS USA INC	4894.1 GALS SODIUM HYPOCHLORITE	\$7,762.87	\$23,295.73
	5/11/2023	110	51089635		4895.7 GALS SODIUM HYPOCHLORITE	\$7,765.40	
	5/11/2023	110	51089636		4897 GALS SODIUM HYPOCHLORITE	\$7,767.46	
184085	5/11/2023		B08TR5	BENEFIT COORDINATORS CORP	DELTA DENTAL AND VSP STMT - MAY 2023	\$3,779.30	\$22,873.16
	5/11/2023		B08WD7		DELTA DENTAL CLAIMS - APR 2023	\$19,093.86	
184098	5/11/2023	170	493225	KAMAN INDUSTRIAL TECHNOLOGIES	EFFLUENT CHAIN AND SPROCKETS	\$20,090.94	\$20,090.94
184123	5/11/2023	110	470010588	USP TECHNOLOGIES	3984 GALS HYDROGEN PEROXIDE	\$18,366.24	\$18,366.24
184021	5/4/2023	143	35063	CAROLLO ENGINEERS	WAS THICKENERS	\$16,484.59	\$16,484.59
184087	5/11/2023	173	40804	CDW GOVERNMENT LLC	OFFSITE BACKUP	\$16,437.00	\$16,437.00
184039	5/4/2023	110	9017787746	KEMIRA WATER SOLUTIONS INC	44,920 LBS FERROUS CHLORIDE	\$7,580.03	\$15,636.99
	5/4/2023	110	9017788198		47,000 LBS FERROUS CHLORIDE	\$8,056.96	
184092	5/11/2023	123	328592	CITY OF FREMONT	PAVEMENT PWC 8237-V	\$14,080.00	\$14,080.00

**UNION SANITARY DISTRICT
CHECK REGISTER
04/29/2023-05/12/2023**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
184076	5/4/2023	143	2053204	WEST YOST ASSOCIATES	FORCE MAIN CORROSION REPAIRS PROJECT PHASE 4	\$10,729.75	\$10,729.75
184042	5/4/2023	170	499301	LUBRICATION ENGINEERS INC	LE THERMIC 6734 (PELLA REPLACEMENT)	\$9,544.38	\$9,544.38
184041	5/4/2023		374322230501	LINCOLN NATIONAL LIFE INS COMP	LIFE & DISABILITY INSURANCE - MAY 2023	\$9,529.91	\$9,529.91
184051	5/4/2023		8484984	OVIVO USA LLC	CLARIFIER PARTS	\$9,268.96	\$9,268.96
184020	5/4/2023		20230418	STATE OF CALIFORNIA	SALES & USE TAX 01/01/23 - 03/31/2023	\$8,858.97	\$8,858.97
184099	5/11/2023	110	9017788818	KEMIRA WATER SOLUTIONS INC	47,600 LBS FERROUS CHLORIDE	\$8,178.72	\$8,178.72
184046	5/4/2023	132	3236	MOBILE HEALTH DIAGNOSTICS, LLC	AUDIOMETRIC AND RESPIRATOR FIT TESTING	\$7,860.00	\$7,860.00
184114	5/11/2023		10004	SHIVAM REAL ESTATE, LLC	REFUND # 58314	\$4,132.50	\$7,432.50
	5/11/2023		21960		REFUND # 58315	\$3,300.00	
184055	5/4/2023		73757	R.D. KINCAIDE INC	12 PATCH KITS	\$7,196.54	\$7,196.54
184124	5/11/2023	122	621901	VALLEY OIL COMPANY	BULK OIL	\$5,683.17	\$5,683.17
184112	5/11/2023	110	23041718	S&S TRUCKING	GRIT HAULING 04/05 & 04/06/2023	\$1,727.70	\$4,795.88
	5/11/2023	110	23041921		GRIT HAULING 04/10/2023	\$1,076.03	
	5/11/2023	110	23041926		GRIT HAULING 04/14/2023	\$867.54	
	5/11/2023	110	23042111		GRIT HAULING 04/19/2023	\$1,124.61	
184129	5/11/2023	171	4472507	WESTERN ENERGY SYSTEMS	COGEN 2 TROUBLESHOOT & XT4/SAFI	\$4,589.91	\$4,589.91
184036	5/4/2023	173	46353	INFOR PUBLIC SECTOR, INC	HANSEN CONSULTING SERVICES	\$4,522.50	\$4,522.50
184050	5/4/2023	173	32726	NEOGOVS	ONBOARD SUBSCRIPTION 04/12/2023 - 04/11/2024	\$4,328.10	\$4,328.10

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Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
184012	5/4/2023	171	5287791	ALL INDUSTRIAL ELECTRIC SUPPLY	1 RADIO MODULE	\$1,605.60	\$4,011.75
	5/4/2023	171	5287792		1 RADIO MODULE	\$2,406.15	
184059	5/4/2023		2138131001	SAN LEANDRO ELECTRIC SUPPLY	ASTD ELECTRICAL SUPPLIES	\$13.56	\$3,698.91
	5/4/2023		2138657002		ASTD ELECTRICAL SUPPLIES	\$325.72	
	5/4/2023		2139430.003		ASTD ELECTRICAL SUPPLIES	\$1,291.72	
	5/4/2023		2139762001		ASTD ELECTRICAL SUPPLIES	\$1,694.76	
	5/4/2023		2141027001		ASTD ELECTRICAL SUPPLIES	\$373.15	
184125	5/11/2023		9933018886	VERIZON WIRELESS	WIRELESS SERV 03/21/23-04/20/23	\$853.51	\$3,651.84
	5/11/2023		9933018887		WIRELESS SERV 03/21/23-04/20/23	\$2,798.33	

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Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
184108	5/11/2023	171	286509	PRESTIGE LENS LAB	SAFETY GLASSES - NOEGEL	\$336.68	\$3,608.59
	5/11/2023	143	286526		SAFETY GLASSES - CHIU	\$274.66	
	5/11/2023	144	286529		SAFETY GLASSES - SOTO	\$274.66	
	5/11/2023	130	286546		SAFETY GLASSES - VASQUEZ	\$309.49	
	5/11/2023	173	286592		SAFETY GLASSES - GILL	\$346.64	
	5/11/2023	144	286593		SAFETY GLASSES - DUNNING	\$323.39	
	5/11/2023	141	286594		SAFETY GLASSES - LEDOAN	\$309.49	
	5/11/2023	171	286595		SAFETY GLASSES - SEPULVEDA	\$284.62	
	5/11/2023	122	286596		SAFETY GLASSES - DE LA ROSA	\$274.66	
	5/11/2023	143	286597		SAFETY GLASSES - RIVAS	\$284.62	
	5/11/2023	130	286898		SAFETY GLASSES - HOLSLAG	\$247.47	
	5/11/2023	144	286901		SAFETY GLASSES - DE AVILA	\$342.21	
184082	5/11/2023		19829922	AT&T	SERV: 03/20/23 - 04/19/23	\$23.10	\$3,567.06
	5/11/2023		19829924		SERV: 03/20/23 - 04/19/23	\$3,336.17	
	5/11/2023		19829946		SERV: 03/20/23 - 04/19/23	\$207.79	

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Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
184031	5/4/2023	170	9653470477	GRAINGER INC	ASTD PARTS & MATERIALS	\$216.04	\$3,439.13
	5/4/2023		9653470485		CREDIT: ASTD PARTS & MATERIALS	\$-4,474.34	
	5/4/2023		9653628678		ASTD PARTS & MATERIALS	\$472.41	
	5/4/2023	170	9653628686		ASTD PARTS & MATERIALS	\$216.04	
	5/4/2023	111	9653628694		ASTD PARTS & MATERIALS	\$12.26	
	5/4/2023	122	9655564350		ASTD PARTS & MATERIALS	\$39.74	
	5/4/2023	111	9655564368		ASTD PARTS & MATERIALS	\$83.41	
	5/4/2023	172	9655708064		ASTD PARTS & MATERIALS	\$4,347.77	
	5/4/2023	111	9655738616		ASTD PARTS & MATERIALS	\$15.46	
	5/4/2023	111	9655738624		ASTD PARTS & MATERIALS	\$181.01	
	5/4/2023		9657119534		ASTD PARTS & MATERIALS	\$996.42	
	5/4/2023	170	9657154085		ASTD PARTS & MATERIALS	\$293.00	
	5/4/2023	111	9657699360		ASTD PARTS & MATERIALS	\$30.24	
	5/4/2023		9658764528		ASTD PARTS & MATERIALS	\$542.40	
	5/4/2023		9658857777		ASTD PARTS & MATERIALS	\$467.27	

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184093	5/11/2023	170	9662951830	GRAINGER INC	ASTD PARTS & MATERIALS	\$1,117.96	\$3,096.33
	5/11/2023		9663913888		ASTD PARTS & MATERIALS	\$581.17	
	5/11/2023	170	9665048535		ASTD PARTS & MATERIALS	\$312.48	
	5/11/2023	170	9665412616		ASTD PARTS & MATERIALS	\$450.13	
	5/11/2023	170	9666770707		ASTD PARTS & MATERIALS	\$73.62	
	5/11/2023		9666770715		ASTD PARTS & MATERIALS	\$560.97	
184078	5/11/2023		20230430	AFLAC GROUP	GROUP INSURANCE - APR 2023	\$3,008.66	\$3,008.66
184084	5/11/2023	122	29951	BAYSCAPE LANDSCAPE MANAGEMENT	LANDSCAPE MAINTENANCE SERVICES - APR 2023	\$2,925.00	\$2,925.00
184105	5/11/2023	170	142203	NEW IMAGE LANDSCAPING CO	LANDSCAPE MAINTENANCE - FMC - APR	\$2,555.59	\$2,555.59
184028	5/4/2023	170	20237798	G3 ENGINEERING INC	1 POLY MIX CHAMBER KIT	\$2,385.70	\$2,385.70
184063	5/4/2023	122	22YY4UT	TK ELEVATOR CORPORATION	ANNUAL ELEVATOR TESTING	\$2,320.59	\$2,320.59
184074	5/4/2023		51313	WECO INDUSTRIES LLC	CAMERA PARTS	\$2,233.03	\$2,233.03
184117	5/11/2023		737576356501	STAPLES CONTRACT & COMMERCIAL	JANITORIAL & BREAKROOM SUPPLIES	\$1,131.38	\$2,120.75
	5/11/2023		737597754901		JANITORIAL & BREAKROOM SUPPLIES	\$169.93	
	5/11/2023		737597754902		JANITORIAL & BREAKROOM SUPPLIES	\$153.03	
	5/11/2023		760750325701		JANITORIAL & BREAKROOM SUPPLIES	\$402.18	
	5/11/2023		760862456001		JANITORIAL & BREAKROOM SUPPLIES	\$264.23	
184103	5/11/2023	170	2401002594	MOTION INDUSTRIES INC	ASTD PARTS & MATERIALS	\$2,001.85	\$2,001.85

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184100	5/11/2023	113	2304910	MCCAMPBELL ANALYTICAL	LAB SAMPLE ANALYSIS	\$1,092.00	\$1,990.00
	5/11/2023	113	2304912		LAB SAMPLE ANALYSIS	\$72.00	
	5/11/2023	113	2304A92		LAB SAMPLE ANALYSIS	\$652.00	
	5/11/2023	113	2304A94		LAB SAMPLE ANALYSIS	\$174.00	
184049	5/4/2023	170	2401001480	MOTION INDUSTRIES INC	ASTD PARTS & MATERIALS	\$462.41	\$1,906.63
	5/4/2023	170	2401001593		ASTD PARTS & MATERIALS	\$650.08	
	5/4/2023	170	2401001660		ASTD PARTS & MATERIALS	\$437.72	
	5/4/2023		2401002176		ASTD PARTS & MATERIALS	\$185.18	
	5/4/2023		2401002540		ASTD PARTS & MATERIALS	\$171.24	
184073	5/4/2023	173	40883803	WAVECREST COMPUTING	WEB MONITORING SOFTWARE	\$1,850.00	\$1,850.00
184113	5/11/2023		20230508	RICHARD SCOBEE	EXP REIMB: REGS - WORKING WITH UTILITY NETWORKS ARCGIS	\$1,790.00	\$1,790.00
184091	5/11/2023	113	2226774	FISHER SCIENTIFIC	LAB SUPPLIES	\$1,761.60	\$1,761.60
184015	5/4/2023	130	16597319	APPLEONE EMPLOYMENT SVCS	TEMP LABOR-LARIOS, WK END 04/08/23	\$1,721.60	\$1,721.60
184080	5/11/2023	130	16603138	APPLEONE EMPLOYMENT SVCS	TEMP LABOR-LARIOS, WK END 04/15/23	\$1,721.60	\$1,721.60
184130	5/11/2023	143	217836	WOODARD & CURRAN INC	IRVINGTON BASIN RCP REHABILITATION	\$1,625.00	\$1,625.00
184035	5/4/2023	173	4122301	INDUSTRIAL VIDEO & CONTROL	CAMERA SUPPORT AND MAINTENANCE	\$1,595.00	\$1,595.00
184102	5/11/2023	114	20230505	JOHN MERRIAM	EXP REIMB: CWEA CONF - LODGING/AIRFARE/SHUTTLE/PER DIEM	\$1,569.93	\$1,569.93
184047	5/4/2023	171	2407073	MOBILE MODULAR MANAGEMENT CORP	FMC TRAILER RENTAL - MAY 2023	\$1,492.89	\$1,492.89
184040	5/4/2023	132	20230503	KATHLEEN KING	EXP REIMB: NEO GOV CONF REG & AIRFARE	\$1,441.96	\$1,441.96

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184104	5/11/2023	170	106407	MUNIQUIP, LLC	1 FERROUS LEVEL TRANSDUCER	\$1,351.15	\$1,351.15
184066	5/4/2023	170	165340	UE SYSTEMS INCORPORATED	ULTRASOUND GUN CALIBRATION	\$1,221.15	\$1,221.15
184106	5/11/2023	173	1841441	O'REILLY MEDIA INC	SAFARI BOOKS ONLINE SUBSCRIPTION RENEWAL	\$1,027.94	\$1,027.94
184077	5/4/2023	121	20230503	CHRISTOPHER YBARRA-MARTINEZ	EXP REIMB: CWEA CONFERENCE - LODGING, TRAVEL	\$1,019.04	\$1,019.04
184017	5/4/2023		19767187	AT&T	SERV: 03/10/23 - 04/09/23	\$1,009.40	\$1,009.40
184083	5/11/2023	173	601772	AVERTIUM LLC	VULNERABILITY SCANNER	\$911.00	\$911.00
184018	5/4/2023		9864418706	AT&T	SERV: 03/11/23 - 04/10/23	\$872.58	\$872.58
184056	5/4/2023	172	8201139830	RED WING BUS ADVANTAGE ACCT	SAFETY SHOES: J. RUIZ	\$225.00	\$871.77
	5/4/2023	172	8201139831		SAFETY SHOES: G. OSEGUERA	\$225.00	
	5/4/2023	111	8201139946		SAFETY SHOES: T. LULLO	\$225.00	
	5/4/2023	122	8201141238		SAFETY SHOES: Z. KULL	\$196.77	
184026	5/4/2023	110	9003005	EAST BAY MUNI UTILITY DISTRICT	FY23 BACC PARTICIPATION FEE	\$859.00	\$859.00
184016	5/4/2023		5110202121	ARAMARK	ASTD DUST MOPS, WET MOPS & TERRY	\$81.66	\$851.58
	5/4/2023		5110202122		UNIFORM LAUNDERING & RUGS	\$355.44	
	5/4/2023		5110202123		UNIFORM LAUNDERING SERVICE	\$414.48	
184025	5/4/2023	121	20230427	MANUEL DEL TORO	TRAVEL REIMB: CWEA CONF SHUTTLE/LODGING	\$717.76	\$835.68
	5/4/2023	121	20230428		EXP REIMB: CWEA CONF AIRFARE & SHUTTLE	\$117.92	
184032	5/4/2023		3S6852	HARRINGTON INDUSTRIAL PLASTICS	ASTD PARTS & MATERIALS	\$831.95	\$831.95
184086	5/11/2023	113	707564	CALTEST ANALYTICAL LABORATORY	11 LAB SAMPLE ANALYSIS	\$827.10	\$827.10

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184081	5/11/2023		5110206452	ARAMARK	UNIFORM LAUNDERING & RUGS	\$372.35	\$825.74
	5/11/2023		5110206453		UNIFORM LAUNDERING SERVICE	\$453.39	
184119	5/11/2023	114	162468804	ULINE INC	330 GALLON IBC TANK	\$762.28	\$762.28
184064	5/4/2023	111	20230427	NEGIN TOOTIAN	EXP REIMB: CWEA 2023 LODGING/PER DIEM/SHUTTLE	\$728.93	\$728.93
184079	5/11/2023	141	14VR66YMMD9N	AMAZON.COM LLC	ASTD OFFICE SUPPLIES	\$13.66	\$701.77
	5/11/2023	170	17G411R76TYD		ASTD OFFICE SUPPLIES	\$60.24	
	5/11/2023	130	183482		REPLACEMENT CHECK - CASHED BY SELWAY	\$452.09	
	5/11/2023	120	1DLLPKPV67P7		ASTD OFFICE SUPPLIES	\$65.96	
	5/11/2023	141	1NMN9NC3LQMX		ASTD OFFICE SUPPLIES	\$109.82	
184096	5/11/2023	111	20230503	TIM HUGHES	EXP REIMB: CWEA CONFERENCE LODGING & PER DIEM	\$673.86	\$673.86
184088	5/11/2023	132	277678	CLAREMONT BEHAVIORAL SERVICES	MAY 2023 EAP PREMIUMS	\$662.40	\$662.40
184101	5/11/2023	170	96344961	MCMASTER SUPPLY INC	ASTD PARTS & MATERIALS	\$154.70	\$638.91
	5/11/2023		96397787		CREDIT: ASTD PARTS & MATERIALS	\$-256.05	
	5/11/2023	170	97032619		ASTD PARTS & MATERIALS	\$79.51	
	5/11/2023		97124648		ASTD PARTS & MATERIALS	\$346.72	
	5/11/2023	170	97124931		ASTD PARTS & MATERIALS	\$121.00	
	5/11/2023		97205779		ASTD PARTS & MATERIALS	\$193.03	

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184045	5/4/2023	170	96092734	MCMASTER SUPPLY INC	ASTD PARTS & MATERIALS	\$42.23	\$594.64
	5/4/2023		96104266		ASTD PARTS & MATERIALS	\$296.36	
	5/4/2023	170	96112219		ASTD PARTS & MATERIALS	\$256.05	
184072	5/4/2023	110	20230502	WASTEWATER TECHNOLOGY TRAINERS	GR II OP CERT REV-BAINS	\$550.00	\$550.00
184030	5/4/2023	122	1841098710	GOODYEAR COMM TIRE & SERV CTRS	4 TIRES	\$529.74	\$529.74
184019	5/4/2023		45185	BAY PRO PLUMBING INC	REFUND # 58313	\$500.00	\$500.00
184038	5/4/2023		43054	JZL CONSTRUCTION	REFUND # 58304	\$500.00	\$500.00
184048	5/4/2023		45169	MONARCH PLUMBING & ROOTER INC	REFUND # 58307	\$500.00	\$500.00
184065	5/4/2023		45181	TRENCHFREE INC	REFUND # 58308	\$500.00	\$500.00
184110	5/11/2023		46206	ROOTER HERO	REFUND # 58328	\$500.00	\$500.00
184111	5/11/2023		46197	ROOTER HERO	REFUND # 58316	\$500.00	\$500.00
184118	5/11/2023		45188	LINDA TRAVIS	REFUND # 58330	\$500.00	\$500.00
184126	5/11/2023	113	8812664969	VWR INTERNATIONAL LLC	LAB SUPPLIES	\$480.69	\$480.69
184089	5/11/2023	144	3686364	DAILY JOURNAL CORPORATION	AD: PUBLIC NOTICE	\$450.45	\$450.45
184052	5/4/2023	143	20230428	LUSINE PETROSYAN	EXP REIMB: CWEA AC23 CONFERENCE - PER DIEM/SHUTTLE	\$422.78	\$422.78
184127	5/11/2023	113	8812717652	VWR INTERNATIONAL LLC	LAB SUPPLIES	\$340.70	\$340.70
184027	5/4/2023	111	20230503	MICHAEL FULKERSON	EXP REIMB: EMPLOYEE TOOLS	\$331.92	\$331.92
184034	5/4/2023		605086057	HILLYARD/SAN FRANCISCO	ASTD JANITORIAL SUPPLIES	\$308.64	\$308.64
184075	5/4/2023	110	20230504	WEF-WATER ENVIRONMENT FED	WEF MEMBERSHIP A LOPEZ	\$277.00	\$277.00

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184115	5/11/2023	141	20230510	KRISTINA SILVA	EXP REIMB: TEAM RECOGNITION LUNCH	\$261.48	\$261.48
184097	5/11/2023	173	6072921	INTRADO LIFE & SAFETY INC	E911 ANNUAL SUBSCRIPTION	\$250.00	\$250.00
184010	5/4/2023	170	9136998022	AIRGAS NCN	ASTD PARTS & MATERIALS	\$228.44	\$228.44
184043	5/4/2023		5590228	MALLORY SAFETY AND SUPPLY LLC	48 PR GLOVES	\$210.60	\$210.60
184061	5/4/2023	132	51725	SLOAN SAKAI YEUNG & WONG LLP	SPECIAL COUNSEL SERVICES	\$198.00	\$198.00
184062	5/4/2023	111	20230502	SWRCB - STATE WATER RESOURCES	GRADE II WASTEWATER OPERATOR EXAM - BAINS	\$155.00	\$155.00
184057	5/4/2023		122710	REMOTE SATELLITE SYSTEMS INT'L	IRIDIUM SVC FEE MAY 2023	\$139.90	\$139.90
184094	5/11/2023		605088734	HILLYARD/SAN FRANCISCO	ASTD JANITORIAL SUPPLIES	\$139.35	\$139.35
184060	5/4/2023	173	2912	SHARESQUARED INC	SHAREPOINT PROFESSIONAL SUPPORT	\$138.75	\$138.75
184029	5/4/2023	111	20230427	BRUCE GALLEG0 JR.	EXP REIMB: TPO SAFETY RECOGNITION 3RD QTR	\$103.09	\$103.09
184011	5/4/2023	170	4088644120230424	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 04/21/23 - BOYCE ROAD	\$92.73	\$92.73
184068	5/4/2023	136	98XW53143	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 04/08/23	\$82.99	\$82.99
184095	5/11/2023	170	768520230427	HOME DEPOT CREDIT SERVICES	MONTHLY HARDWARE STMT - APRIL 2023	\$79.01	\$79.01
184013	5/4/2023	170	1GV1CGKR1PC4	AMAZON.COM LLC	ASTD OFFICE SUPPLIES	\$44.08	\$78.36
	5/4/2023	143	1P6J16GWHTHH		ASTD OFFICE SUPPLIES	\$34.28	
184090	5/11/2023	173	606359	DLT SOLUTIONS, LLC	AWS CLOUD STORAGE - MAR 2023	\$76.47	\$76.47
184024	5/4/2023	132	78571727	CONCENTRA MEDICAL CENTERS	1 DOT PHYSICAL	\$72.00	\$72.00
184058	5/4/2023	170	85340220230421	SAN FRANCISCO WATER DEPT	SERVICE 03/22/23 - 04/20/23	\$71.41	\$71.41
184120	5/11/2023	141	439006	ULTRAEX LLC	COURIER SVCS: 1 BOARDMEMBER DELIVERY - 04/05/23	\$56.30	\$56.30

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184014	5/4/2023		1QVF39P44VKJ	AMAZON.COM LLC	ASTD OFFICE SUPPLIES	\$36.29	\$36.29
184044	5/4/2023	113	2303J76A	MCCAMPBELL ANALYTICAL	LAB SAMPLE ANALYSIS	\$35.00	\$35.00
184122	5/11/2023	136	98XW53153	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 04/15/23	\$30.00	\$30.00
184037	5/4/2023	143	20230427	REBECCA INGALLS	EXP REIMB: CUPCAKES FOR CIP APRIL BIRTHDAYS	\$28.24	\$28.24
184116	5/11/2023	132	20230504	JENNIFER SIO-KWOK	EXP REIMB: MILEAGE	\$14.93	\$14.93
184023	5/4/2023	170	20230501	PETE CHAPARRO	EXP REIMB: MILEAGE FOR CALL OUT	\$11.06	\$11.06

Invoices:

Credit Memos :	2	-4,730.39
\$0 - \$1,000 :	123	38,097.59
\$1,000 - \$10,000 :	64	252,797.20
\$10,000 - \$100,000 :	15	498,212.70
Over \$100,000 :	5	2,258,863.23
Total:	209	3,043,240.33

Checks:

\$0 - \$1,000 :	56	22,230.51
\$1,000 - \$10,000 :	45	162,509.21
\$10,000 - \$100,000 :	15	415,415.88
Over \$100,000 :	5	2,443,084.73
Total:	121	3,043,240.33

Regina McEvoy

From: Paul Eldredge
Sent: Friday, April 28, 2023 7:50 AM
Cc: Executive Team; Coaches; Regina McEvoy; Michelle Powell; kmurphy@bwslaw.com
Subject: EBDA PFAS Summary Report
Attachments: EBDA PFAS Report 2023_04.pdf

Good morning Board Members,

Per the discussion at the last Board meeting, attached is the PFAS report form EBDA. This is an FYI only and please let me know if you have any questions.

Paul R. Eldredge, P.E.

General Manager

510-477-7502

www.unionsanitary.ca.gov



ITEM NO. RA5 PFAS UPDATE

Recommendation

For the Committee's information only; no action is required.

Background

Per- and polyfluoroalkyl substances (PFAS) are a large group of human-made substances that are very resistant to heat, water, and oil. PFAS have been used extensively in surface coating and protectant formulations. Common PFAS-containing products are non-stick cookware, cardboard/paper food packaging, water-resistant clothing, carpets, and fire-fighting foam. All PFAS are persistent in the environment, can accumulate within the human body, and have demonstrated toxicity at relatively low concentrations. PFOA and PFOS, two of the most common PFAS compounds, were found in the blood of nearly all people tested in several national surveys.

As a result of public attention on the issue of PFAS, there is a lot of activity at the national, state, and local levels on regulations, legislation, and research. This report outlines recent developments.

Discussion

Drinking Water Regulations

Regulatory efforts to address PFAS have primarily focused on drinking water in order to minimize human ingestion of these chemicals. In August 2019, California's Division of Drinking Water (DDW) lowered the drinking water notification levels to 6.5 ng/L for PFOS and 5.1 ng/L for PFOA (lowest detection possible at the time). In February 2020, DDW also lowered the response levels to 10 ng/L for PFOA and 40 ng/L for PFOS.

On March 14, 2023, the U.S. EPA released their proposed drinking water Maximum Contaminant Levels (MCLs) and Maximum Contaminant Level Goals (MCLGs) for select PFAS compounds. These draft MCLs will go through the formal approval process and are expected to be adopted by the end of 2023, and become enforceable standards by the end of 2026. For PFOA and PFOS, the proposed limit is 4 parts per trillion (ppt), or 0.004 ng/L. The proposed rule also contains site-specific limitations on any mixture containing one or more of PFNA, PFHxS, PFBS, and/or GenX Chemicals. Potential risk would be assessed using a hazard index calculation, defined in the proposed rule.

While the proposed MCLs are of obvious concern to drinking water agencies, they are unlikely to directly affect EBDA or our members' wastewater operations. Where wastewater facilities discharge into waterbodies that have the potential to be drinking water sources, there is a chance that the MCLs could be implemented as effluent limits in wastewater permits. However, because EBDA discharges to the Bay, any limits on EBDA's effluent would be more likely driven by the potential for impacts to aquatic ecosystems, rather than human health. Levels safe for aquatic health have yet to be defined.

Hazardous Waste Regulation

In August 2022, EPA proposed a rule designating PFOA and PFOS as hazardous substances under the federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – also known as the Superfund law. The intent of this approach by EPA is to invoke a “polluter pays” principle, forcing the chemical companies that produce PFAS compounds to take responsibility for cleaning them up. The Superfund law works by triggering cleanups once contamination exceeds EPA thresholds, and another provision allows the agency to sue for cost recovery. However, the wastewater sector and other industries that are passive receivers of PFAS have argued that we should not be subject to these requirements. There are unlikely to be any immediate ramifications to wastewater agencies from this designation because the default reportable quantity is one pound per day for PFOA and PFOS, a mass which is unlikely to be reached in wastewater agencies’ biosolids or effluent. However, the wastewater sector is continuing to push for an exemption to counter the risk that the reportable quantity could be lowered in the future.

Legislative and Regulatory Approaches to Biosolids in Other States

The most significant impacts to wastewater agencies have come from state legislatures taking action related to PFAS in biosolids. The Maine legislature passed L.D. 1911 in April 2022, banning use of all products that contain wastewater biosolids due to concerns about PFAS contamination. The legislation was prompted by discoveries of groundwater, soils, and milk with high levels of PFAS at farms and dairies where biosolids were applied. Importantly, paper mill residuals with high levels of PFAS were applied as soil amendments in many of these areas. Irrespective of the specific causes of the contamination, wastewater agencies in Maine must now haul their biosolids out of state for agricultural reuse.

In Arizona, recently proposed House Bill 2669 would have banned the land application of Class B biosolids within 3 miles of any area with a population greater than 128 people per square mile and within 1 mile of any land used for the production of direct human consumption crops or a residential zone. The legislation was prompted by a site near Yuma, Arizona which receives biosolids from Southern California. As opposed to PFAS, the driver in this case appears to be mismanagement at the site (stockpiled biosolids to which septage was added) that led to flies, odors, and complaints. Following advocacy by local utilities, the legislation was amended, and the bill currently moving forward bans application of sewage or septage, but not biosolids.

On the positive side, the approach being taken by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) toward regulating biosolids for PFAS is being held up as a model for California and other states. The Michigan strategy, which rolled out in 2021, established a threshold at which PFAS in biosolids are considered to be at background levels. Michigan EGLE conducted a study of biosolids from 42 wastewater treatment plants and found that the average PFOS concentration was 18

µg/kg. They then established thresholds for determining that wastewater agencies were “industrially impacted” and worked with agencies whose biosolids concentrations were above those thresholds to investigate potential sources and develop a source reduction program. Agencies with PFOS below 50 µg/kg were not required to take further action. Agencies with PFOS at or above 50 µg/kg but below 150 µg/kg were asked to reduce land application loading rates and develop source reduction programs. Only biosolids exceeding 150 µg/kg are not permitted to be land applied, and source reduction programs for those agencies are also required.

Research

Because there are so many unknowns and additional data is required to support rational regulation, there is a lot of research underway into the sources, pathways, and impacts of PFAS in the environment.

A recent [study](#) conducted by University of Arizona investigated the impact of long-term land application of Class B biosolids on PFAS presence in soils. The study found that even after decades of land application, the concentration and accumulation of PFAS in soils receiving the biosolids was comparatively low, and significant attenuation of PFAS occurred near the soil surface. These results suggest that the potential for groundwater contamination is relatively small. The University of Arizona is now leading a [national study](#) looking at PFAS in soils with a history of land application of biosolids. This study, which kicked off in 2021, is looking at soil, groundwater, and crop uptake to better understand potential routes of PFAS exposure.

In July 2020, the State Water Resources Control Board (SWRCB) issued an investigative order requiring all wastewater treatment plants (WWTPs) to monitor for PFAS in influent, effluent, and biosolids quarterly for one year. The San Francisco Bay Region was exempted from that order in favor of conducting a regional study through the Regional Monitoring Program. In Phase 1 of the study, influent, effluent, and biosolids samples were analyzed at a select number of Bay Area WWTPs, which included Dublin San Ramon Services District, Union Sanitary District, and EBDA’s combined outfall. Levels detected in wastewater effluent and biosolids from Bay Area agencies were lower than in other household products, and concentrations of individual PFAS compounds in effluent were well below DDW action levels. The study also showed that levels of PFAS in influent were not correlated with the number of industrial dischargers in an agency’s service area, leading to the conclusion that PFAS is primarily coming from residential and commercial sources. Another interesting finding was that effluent PFAS concentrations consistently exceed influent concentrations. This is not because wastewater plants are creating or contributing PFAS, but rather because significant quantities of PFAS precursors can be found in influent, and those precursors are converted to detectable PFAS compounds through the treatment process.

The Bay Area Clean Water Agencies (BACWA) and the San Francisco Estuary Institute (SFEI) conducted sampling for Phase 2 of the regional study last Fall, and they are

currently analyzing the resulting data. The focus of Phase 2 is on gathering information that is actionable and can inform management of PFAS. Since source control appears to be the most effective way to reduce PFAS in effluent and biosolids, the study is seeking to better understand sources in the sewershed by sampling upstream in several sewer service areas.

In parallel, work is ongoing to analyze PFAS data from the rest of the state collected under the SWRCB investigative order. Consulting firm CDMSmith, at the direction of a California Association of Sanitation Agencies (CASA) work group including the EBDA General Manager, has been reviewing the data set to understand trends and to identify potential outliers. The concept is that if the wastewater community offers peer-to-peer support to agencies with high PFAS levels, focusing on a source control approach like the Michigan model, we may be able to head off more stringent regulation in the state. Meanwhile, SWRCB staff has said publicly that they do not see any causes for concern in the wastewater or biosolids PFAS data and do not expect to move forward with regulations in the immediate future.

California Legislation

As noted above, because we are receivers of PFAS, the wastewater community is primarily focused on source control rather than treatment as the most effective way to address PFAS in the environment. CASA has been working with a consortium of environmental advocacy partners, including Environmental Working Group, to sponsor and support legislation targeted at companies producing products containing PFAS. CASA's sponsored bill from last session, AB 2247, would have required labeling and disclosure of PFAS in a range of products, paving the way for further regulation. Unfortunately, the Governor vetoed the bill citing state administration costs, but several other PFAS-related bills were successfully signed. These included AB 1817, which banned PFAS in textiles such as clothing and household products, and AB 2771, which prohibits the manufacture, distribution, or sale of any cosmetic product in the state that contains "intentionally added PFAS" starting January 1, 2025.

CASA and its environmental partners are sponsoring a new bill this session, AB 727, which would ban PFAS in cleaning products. Bills are also moving through the legislature to ban PFAS in menstrual products (AB 246) and artificial turf (AB 1423).