



**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, January 8, 2024  
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 Special Board Meeting of December 5, 2023.  |
| Motion      | 5.  | Approve Minutes of the Union Sanitary District Board Meeting of December 11, 2023.   |
| Motion      | 6.  | Approve Minutes of the Union Sanitary District Special Board Meeting of December 18, 2023.   |
| Motion      | 7.  | November 2023 Monthly Operations Report <i>(to be reviewed by the Budget &amp; Finance and Legal/Community Affairs Committees)</i> .   |
|             | 8.  | Written Communications.  |
|             | 9.  | Public Comment.<br>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      | 10. | Review and Consider Approval of the Assistant Process Engineer and Associate Process Engineer Position Descriptions and Salary Ranges.   |
| Motion      | 11. | Consider a Resolution to Accept the Construction of the Irvington Basin Reinforced Concrete Pipe Rehabilitation Project from Insituform Technologies, LLC <i>(to be reviewed by the Engineering and Information Technology Committee)</i> .  |
| Information | 12. | Check Register.  |

Information

13. Committee Meeting Reports. *(No Board action is taken at Committee meetings):*
    - a. Budget & Finance Committee – Thursday, January 4, 2024, at 1:30 p.m.
      - Director Handley and Director Kite
    - b. Engineering and Information Technology Committee – Friday, January 5, 2024, at 11:00 a.m.
      - Director Handley and Director Kite
    - c. Legal/Community Affairs Committee – Friday, January 5, 2024, at 11:30 a.m.
      - Director Kite and Director Lathi
    - d. Legislative Committee – will not meet.
    - e. Personnel Committee – will not meet.
- 

Information

14. General Manager’s Report *(Information on recent issues of interest to the Board)*.
- 
15. 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.
- 
16. Adjournment – The Board will adjourn to the next Regular Board Meeting to be held in the Boardroom on Monday, January 22, 2024, 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 Handley

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

**AGENDA**  
**Thursday, January 4, 2024**  
**1:30 P.M.**

Karen W. Murphy  
*Attorney*

**Alvarado Conference Room**  
**5072 Benson Road**  
**Union City, CA 94587**

**THIS MEETING WILL BE TELECONFERENCED FROM STIRLING COURT NEAREST LAKE BOULEVARD, NEWARK, CALIFORNIA.**

**THE TELECONFERENCE LOCATION SHALL BE ACCESSIBLE TO THE PUBLIC.**

1. Call to Order

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2. Roll Call

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3. 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 and are requested to be completed prior to the start of the meeting.

- Alvarado Conference Room
  - Teleconference Location
- 

4. Items to be reviewed for the Regular Board meeting of January 8, 2024:

- November 2023 Monthly Operations Report – Financial 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.

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.



**Directors**  
Manny Fernandez  
Tom Handley  
Pat Kite  
Anjali Lathi  
Jennifer Toy

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

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

**AGENDA**  
**Friday, January 5, 2024**  
**11:00 A.M.**

Karen W. Murphy  
*Attorney*

**Alvarado Conference Room**  
**5072 Benson Road**  
**Union City, CA 94587**

**THIS MEETING WILL BE TELECONFERENCED FROM STIRLING COURT NEAREST LAKE BOULEVARD,  
NEWARK, CALIFORNIA.**

**THE TELECONFERENCE LOCATION SHALL BE ACCESSIBLE TO THE PUBLIC.**

1. Call to Order

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2. Roll Call

---

3. 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 and are requested to be completed prior to the start of the meeting.
  - Alvarado Conference Room
  - Teleconference Location

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4. Items to be reviewed for the Regular Board meeting of January 8, 2024:
  - Consider a Resolution to Accept the Construction of the Irvington Basin Reinforced Concrete Pipe Rehabilitation Project from Insituform Technologies, LLC

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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.

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.



**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, January 5, 2024**

**11:30 A.M.**

Karen W. Murphy  
*Attorney*

**Alvarado Conference Room  
5072 Benson Road  
Union City, CA 94587**

**THIS MEETING WILL BE TELECONFERENCED FROM THE FOLLOWING LOCATIONS:  
STIRLING COURT NEAREST LAKE BOULEVARD, NEWARK, CALIFORNIA; THE GUEST  
PARKING AREA LOCATED ON OCASO CAMINO, WEST OF AND CLOSEST TO THE  
INTERSECTION OF PASEO PADRE PARKWAY IN FREMONT, CALIFORNIA.**

**THE TELECONFERENCE LOCATIONS SHALL BE ACCESSIBLE TO THE PUBLIC.**

1. Call to Order

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2. Roll Call

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3. 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 and are requested to be completed prior to the start of the meeting.

- Alvarado Conference Room
  - Teleconference Locations
- 

4. Items to be reviewed for the Regular Board meeting of January 8, 2024:

- November 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.

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.

**MINUTES OF THE SPECIAL MEETING OF THE  
BOARD OF DIRECTORS OF  
UNION SANITARY DISTRICT  
December 5, 2023**

**CALL TO ORDER**

President Fernandez called the special meeting to order at 3:00 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  
Alisa Gordon, Human Resources Manager  
Ric Pipkin, Enhanced Treatment and Site Upgrade Program Manager  
Gus Carrillo, Enhanced Treatment and Site Upgrade Assistant Program Manager

VISITORS: Kristof Szoke, Meyers Nave  
Lela Huenergardt, KBM Hogue

**PUBLIC COMMENT**

There was no public comment.

**COMBINED BOARD WORKSHOP**

Kristof Szoke provided First Amendment Audit training for the Board.

General Manager Eldredge presented information regarding the Enhanced Treatment and Site Upgrade Campus Building Furniture.

**ADJOURNMENT:**

The special meeting was adjourned at approximately 5:00 p.m. to the next Regular Board Meeting to be held in the Boardroom on Monday, December 11, 2023, at 4:00 p.m.

SUBMITTED:

ATTEST:

\_\_\_\_\_  
REGINA McEVOY  
BOARD CLERK

\_\_\_\_\_  
TOM HANDLEY  
SECRETARY

APPROVED:

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MANNY FERNANDEZ  
PRESIDENT

Adopted this 8<sup>th</sup> day of January, 2024

**MINUTES OF THE MEETING OF THE  
BOARD OF DIRECTORS OF  
UNION SANITARY DISTRICT/UNION SANITARY DISTRICT FINANCING  
AUTHORITY  
December 11, 2023**

**CALL TO ORDER**

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

**SALUTE TO THE FLAG**

President Fernandez led the salute to the flag.

**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  
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  
Robert Simonich, Fabrication, Maintenance, and Construction Manager  
Alisa Gordon, Human Resources Manager  
Ric Pipkin, Enhanced Treatment and Site Upgrade Program Manager  
Chris Pachmayer, Fabrication Maintenance and Construction Coach  
Tim Grillo, Research and Support Coach  
Richard Thow, Customer Service Coach  
Curtis Bosick, Capital Improvement Projects Coach  
Karoline Terrazas, Organizational Performance Coordinator  
Trieu Nguyen, IT Administrator  
Regina McEvoy, Executive Assistant to the General Manager/Board Clerk

VISITORS: Monique Spyke, PFM Asset Management  
Jack Alcom, Tri-City Voice  
Alice Johnson, League of Women Voters



**APPROVE MINUTES OF THE UNION SANITARY DISTRICT BOARD MEETING OF NOVEMBER 13, 2023**

It was moved by Director Kite, seconded by Director Lathi, to Approve the Minutes of the Board Meeting of November 13, 2023. Motion carried unanimously.

**APPROVE MINUTES OF THE UNION SANITARY DISTRICT SPECIAL BOARD MEETING OF NOVEMBER 15, 2023**

It was moved by Secretary Handley, seconded by Vice President Toy, to Approve the Minutes of the Special Board Meeting of November 15, 2023. Motion carried unanimously.

**APPROVE MINUTES OF THE UNION SANITARY DISTRICT SPECIAL BOARD MEETING OF NOVEMBER 30, 2023**

It was moved by Director Lathi, seconded by Vice President Toy, to Approve the Minutes of the Special Board Meeting of November 30, 2023. Motion carried unanimously.

**OCTOBER 2023 MONTHLY OPERATIONS REPORT**

This item was reviewed by the Budget & Finance and Legal/Community Affairs Committees. General Manager Eldredge provided an overview of the Monthly Report and Business Services Manager/CFO Carlson provided an overview of the financial reports.

**FISCAL YEAR 2024 1<sup>ST</sup> QUARTER MANAGED INVESTMENT PORTFOLIO REPORT FROM PFM**

This item was reviewed by the Investment Portfolio Ad Hoc. Business Services Manager/CFO Carlson introduced PFM Managing Director Spyke who provided an overview of the Investment Report included in the Board meeting packet and responded to questions from Boardmembers.

**FISCAL YEAR 2024 1<sup>ST</sup> QUARTER DISTRICT-WIDE BALANCED SCORECARD**

This item was reviewed by the Legal/Community Affairs Committee. Organizational Performance Coordinator Terrazas provided an overview of the Balanced Scorecard included in the Board meeting packet.

President Fernandez recessed the meeting at 4:20 p.m.

President Fernandez reconvened the meeting at 4:26 p.m.

**WRITTEN COMMUNICATIONS**

There were no written communications.

## **PUBLIC COMMENT**

There was no public comment.

## **AUTHORIZE THE GENERAL MANAGER TO EXECUTE AN INFORMATION TECHNOLOGY (IT) SUPPORT CONTRACT WITH HALCYON NETWORKS**

This item was reviewed by the Engineering and Information Technology Committee. Fabrication Maintenance and Construction Coach Pachmayer stated the District's information technology (IT) Analyst is a member of the United States Naval Reserves and has been called to active duty; the IT Analyst's military deployment is expected to occur from January through August of 2024. The District will cover the temporary loss of the IT Analyst position with a full-time consultant from Halcyon Networks who will fulfill the IT Analyst job responsibilities for up to 12 months. The \$208,000 cost of hiring a consultant was not budgeted in the FY 24 Fabrication Maintenance and Construction work group budget. The Navy will pay the IT Analyst a salary during his deployment and the District will make up the difference; the expected salary savings to the District will be \$68,467.73. The remaining funds requested to fund the IT support contract will come from deferring switchgear and breaker maintenance from FY 24 to FY 25. Staff recommended the Board authorize the General Manager to execute an information technology support contract with Halcyon Networks in the amount of \$208,000.

It was moved by Director Lathi, seconded by Director Kite, to Authorize the General Manager to Execute an Information Technology (IT) Support Contract with Halcyon Networks in the Amount of \$208,000. Motion carried unanimously.

## **CONSIDER AND APPROVE THREE RESOLUTIONS FOR THE APPLICATION FOR CLEAN WATER STATE REVOLVING FUND FINANCIAL ASSISTANCE FOR THE WAS THICKENER PROJECT**

This item was reviewed by the Engineering and Information Technology Committee. Capital Improvement Projects Coach Bosick stated the WAS Thickener Replacement Project was previously postponed due to limited staff and financial resources already dedicated to ongoing construction projects. The postponement provided staff with an opportunity to further evaluate funding opportunities, which included applying for Clean Water State Revolving Fund financial assistance; staff will prepare an application package to the State Water Resources Control Board for financial assistance of up to \$22.5 million for design and construction of the Project. The application package requires the Board to adopt three resolutions described in detail below. Staff recommended the Board consider adopting the following resolutions:

- Resolution to authorize the application for the Clean Water State Revolving Fund financial assistance for the WAS Thickener Replacement Project and designate the General Manager or his designee as the District's representative to execute the financial assistance application for a financing agreement; and
- Resolution to dedicate and pledge the Wastewater Enterprise Fund and Net Revenues thereof for the repayment any and all Clean Water State Revolving Fund financial assistance on the WAS Thickener Replacement Project; and

- Resolution to reimburse expenditures paid prior to the approval of the WAS Thickener Replacement Project Clean Water State Revolving Fund financial assistance by the State Water Resources Control Board.

It was moved by Secretary Handley, seconded by Vice President Toy, to Adopt Resolution No. 3002, Authorizing Resolution/Ordinance; Resolution No. 3003, Pledged Revenues and Fund(s) Resolution; and Resolution No. 3004, Reimbursement Resolution. Motion carried unanimously.

**AUTHORIZE THE GENERAL MANAGER TO EXECUTE AN AGREEMENT AND TASK ORDER NO. 1 WITH SIEGEL & STRAIN ARCHITECTS FOR THE FIELD OPERATIONS BUILDING IMPROVEMENTS PROJECT**

This item was reviewed by the Engineering and Information Technology Committee. Capital Improvement Projects Coach Bosick stated previous studies concluded the Field Operations Building, constructed in 1999, had various deficiencies. The building includes offices, a crew room, and locker rooms for the Collection Services workgroup, a supplies warehouse, and an auto shop. The objective of the Project will be to construct necessary improvements to address the identified deficiencies, upgrade the building to meet current building and seismic codes, and modify the layout to utilize the available space more efficiently. Staff recommended the Board authorize the General Manager to execute an agreement and Task Order No. 1 with Siegel & Strain Architects in the amount of \$301,310 for the Field Operations Building Improvements Project.

It was moved by Vice President Toy, seconded by Director Kite, to Authorize the General Manager to Execute an Agreement and Task Order No. 1 with Siegel & Strain Architects in the Amount of \$301,310 for the Field Operations Building Improvements Project. Motion carried unanimously.

**AUTHORIZE THE GENERAL MANAGER TO EXECUTE AN AGREEMENT AND TASK ORDER NO. 1 WITH LOOKINGPOINT INC FOR NETWORK SERVICES FOR THE ENHANCED TREATMENT AND SITE UPGRADE PHASE 1A CAMPUS PROJECT**

This item was reviewed by the Engineering and Information Technology Committee. Enhanced Treatment and Site Upgrade Program Manager Pipkin stated the Enhanced Treatment and Site Upgrade (ETSU) Phase 1A Campus Project will require expanding the existing IT network into the new building to support computer workstations, phones, building HVAC control systems, and security monitoring systems as well as to connect it to the existing treatment plant control systems. Staff issued a Request for Proposals seeking a qualified consultant to provide network design, configuration, and support services for the Project to six firms believed to be qualified to perform the work. Despite outreach to all firms and extending the proposal deadline, staff received one proposal from LookingPoint Inc. LookingPoint has provided network support services to the District in the past and staff have been satisfied with their performance. Staff recommended the Board authorize the General Manager to execute an agreement and Task Order No. 1 with LookingPoint Inc in the amount of \$95,310 for network design, configuration, and support services for the Enhanced Treatment and Site Upgrade Phase 1A Campus Project.

It was moved by Vice President Toy, seconded by Secretary Handley, to Authorize the General Manager to Execute an Agreement and Task Order No. 1 with LookingPoint Inc in the Amount of \$95,310 for Network Design, Configuration, and Support Services for the Enhanced Treatment and Site Upgrade Phase 1A Campus Project. Motion carried unanimously.

**PROVIDE DIRECTION REGARDING THE START TIME FOR REGULAR MEETINGS OF THE BOARD OF DIRECTORS**

General Manager Eldredge stated regular meetings of the Union Sanitary District Board of Directors have been held the second and fourth Monday of the month beginning at 4:00 p.m. Staff prepared this item at the Board's request to provide an opportunity for the Board to discuss the start time for Regular Board meetings going forward. Staff recommended the Board provide direction regarding the start time for Regular Board meetings.

The Board directed staff to make no changes to the start time for Regular Board meetings.

**INFORMATION ITEMS:**

**Fiscal Year 2023 Strategic Performance Annual Report**

This item was reviewed by the Legal/Community Affairs Committee. Organizational Performance Coordinator Terrazas provided an overview of the annual report and responded to Boardmember questions.

**Legislative Update on Issues of Interest to the Board**

This item was reviewed by the Legislative Committee. General Manager Eldredge provided an overview of the legislative update and responded to Boardmember questions.

**Check Register**

There were no questions regarding the check register.

**COMMITTEE MEETING REPORTS:**

The Investment Portfolio Ad Hoc, Legislative, Engineering and Information Technology, Legal/Community Affairs, and Budget & Finance Committees met.

**GENERAL MANAGER'S REPORT:**

- General Manager Eldredge provided a COVID update.
- General Manager Eldredge provided an update on the sinkhole in Fremont.
- General Manager Eldredge stated a Board Workshop to be held at 4:00 p.m. on Monday, December 18, 2023, would include the following topics: ETSU Financing Update #2, Process Engineer Job Descriptions, ETSU Campus Power Update, and ETSU Campus Furniture Dais Chairs.

**OTHER BUSINESS:**

There was no other business.

**ADJOURNMENT:**

The meeting was adjourned at 5:02 p.m. to a Board Workshop to be held in the Boardroom on Monday, December 18, 2023, at 2:00 p.m.

The Board will then adjourn to the next Regular Meeting to be held in the Boardroom on Monday, January 8, 2024, at 4:00 p.m.

SUBMITTED:

ATTEST:

\_\_\_\_\_  
REGINA McEVOY  
BOARD CLERK

\_\_\_\_\_  
TOM HANDLEY  
SECRETARY

APPROVED:

\_\_\_\_\_  
MANNY FERNANDEZ  
PRESIDENT

Adopted this 8<sup>th</sup> day of January 2024

**MINUTES OF THE SPECIAL MEETING OF THE  
BOARD OF DIRECTORS OF  
UNION SANITARY DISTRICT  
December 18, 2023**

**CALL TO ORDER**

President Fernandez called the special meeting to order at 2:00 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  
              Mark Carlson, Business Services Manager/CFO  
              Armando Lopez, Treatment and Disposal Services Manager  
              Raymond Chau, Technical Services Manager  
              Alisa Gordon, Human Resources Manager  
              Ric Pipkin, Enhanced Treatment and Site Upgrade Program Manager  
              Gus Carrillo, Enhanced Treatment and Site Upgrade Assistant Program Manager

**PUBLIC COMMENT**

There was no public comment.

**COMBINED BOARD WORKSHOP**

General Manager Eldredge presented information regarding the following topics:

- Process Engineer Job Descriptions
- Enhanced Treatment and Site Upgrade Financing Update
- Enhanced Treatment and Site Upgrade Campus Power Update
- Enhanced Treatment and Site Upgrade Campus Building Furniture, Dais Chairs

**ADJOURNMENT:**

The special meeting was adjourned at approximately 3:30 p.m. to the next Regular Board Meeting to be held in the Boardroom on Monday, January 8, 2024, at 4:00 p.m.

SUBMITTED:

ATTEST:

\_\_\_\_\_  
REGINA McEVOY  
BOARD CLERK

\_\_\_\_\_  
TOM HANDLEY  
SECRETARY

APPROVED:

\_\_\_\_\_  
MANNY FERNANDEZ  
PRESIDENT



# Union Sanitary District

Monthly Operations Report  
November 2023



# Table of Contents

## 2023 MONTHLY OPERATIONS REPORT

The November 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**

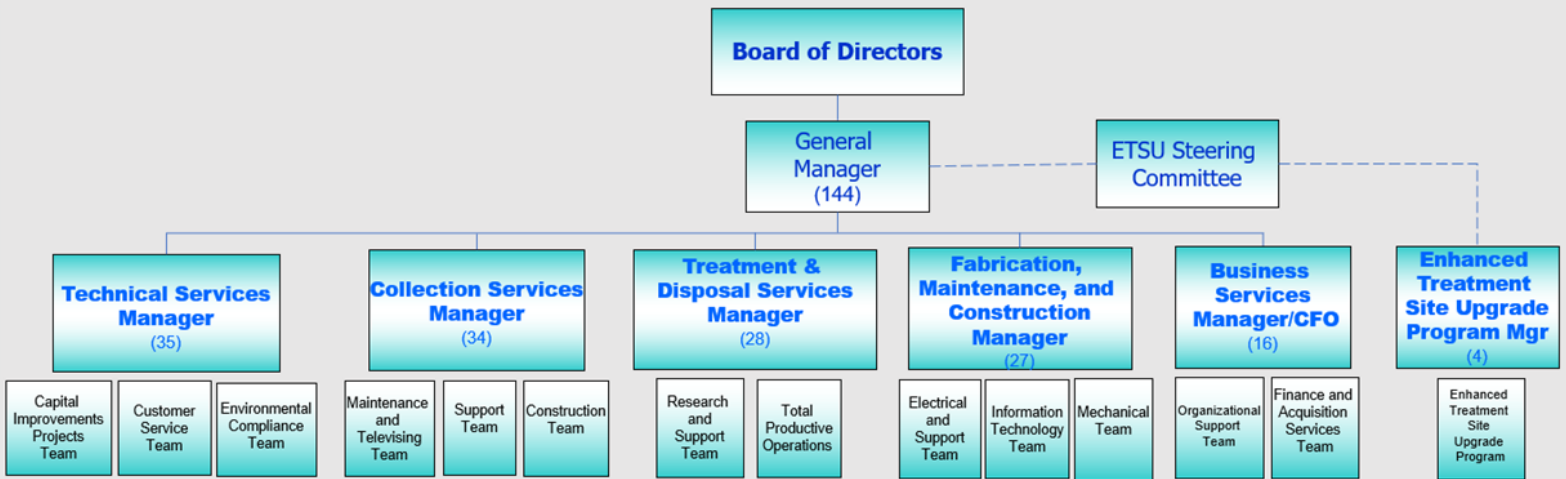




# Organizational Overview

## 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 2024

Year-to-date as of 11/30/2023

42% of year elapsed

### Revenues

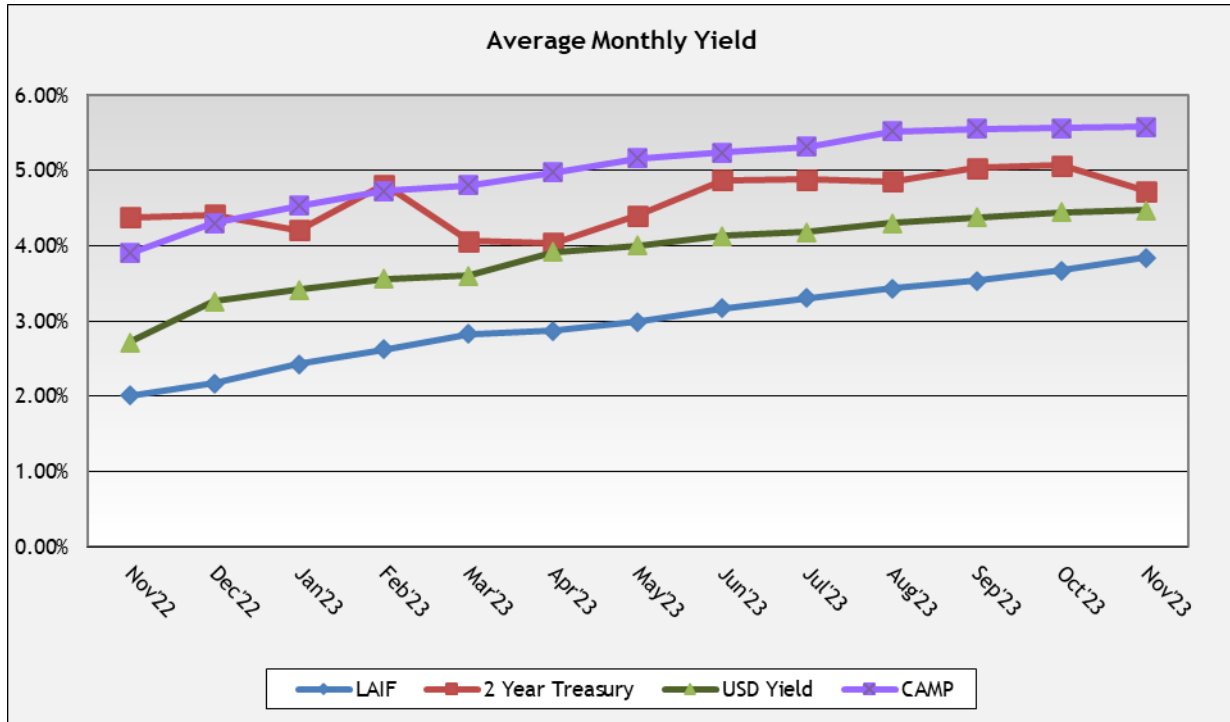
	Budget	Actual	% of Budget Rec'd	Audited Last Year Actuals 6/30/23
Capacity Fees	\$ 8,420,000	\$ 1,303,493	15%	\$ 7,371,192
Sewer Service Charges	84,200,000	1,081,970	1%	77,986,322
Operating (Includes work groups and fund 85)	1,353,500	360,865	27%	1,372,027
Interest	3,850,000	3,677,081	96%	5,736,464
Misc. (Annex fees, forfeited deposits)	11,276	824	7%	654,626
<b>Subtotal Revenues</b>	<b>\$ 97,834,776</b>	<b>\$ 6,424,232</b>	<b>7%</b>	<b>\$ 93,120,631</b>
SRF Funds Draw Down (Standby Power)	12,296,700	14,713,289	119.7%	-
<b>Total Revenues + Bond Proceeds</b>	<b>\$ 110,131,476</b>	<b>\$ 21,137,521</b>	<b>19%</b>	<b>\$ 93,120,631</b>

### Expenses

	Budget	Actual	% of Budget Used	Audited Last Year Actuals 6/30/23
Capital Improvement Program:				
Capacity Proj.	\$ 13,948,200	\$ 6,596,352	47%	\$ 10,249,515
Renewal & Repl. Proj.	70,605,900	22,667,882	32%	56,652,197
Operating (includes fund 85)	55,246,877	21,423,274	39%	49,798,555
Special Projects	4,154,384	166,696	4%	855,302
Retiree Medical (ADC)	1,475,000	129,397	9%	404,259
115 Pension Trust	6,400,000	-	0%	-
Vehicle & Equipment	187,300	72,135	39%	176,662
Information Systems	1,199,800	511,765	43%	542,449
Plant & Pump Stat. R&R	400,000	129,390	32%	308,301
Emerg. Fund	-	-	0%	-
Cty Fee for SSC Admin.	124,000	-	0%	112,512
Debt Servicing:				
SRF Loans	-	-	0%	-
Bonds	9,017,080	7,245,869	80%	8,964,016
WIFIA	17,000	18,100	106%	17,000
Debt Issuance	100,000	-	0%	-
<b>Total Expenses</b>	<b>\$ 162,875,541</b>	<b>\$ 58,960,859</b>	<b>36%</b>	<b>\$ 128,080,768</b>
<b>Total Revenue &amp; Proceeds less Expenses</b>	<b>\$ (52,744,065)</b>	<b>\$ (37,823,338)</b>		<b>(34,960,137)</b>

# Investment Portfolio

## Performance Measures for the USD Investment Portfolio



	Jul'23	Aug'23	Sep'23	Oct'23	Nov'23
<b>LAIF</b>	<b>3.31%</b>	<b>3.43%</b>	<b>3.53%</b>	<b>3.67%</b>	<b>3.84%</b>
<b>2 Year Treasury</b>	<b>4.88%</b>	<b>4.85%</b>	<b>5.03%</b>	<b>5.07%</b>	<b>4.73%</b>
<b>USD Yield</b>	<b>4.18%</b>	<b>4.30%</b>	<b>4.38%</b>	<b>4.45%</b>	<b>4.47%</b>
<b>CAMP</b>	<b>5.31%</b>	<b>5.52%</b>	<b>5.55%</b>	<b>5.56%</b>	<b>5.58%</b>

LAIF: Local Agency Investment Fund Yield

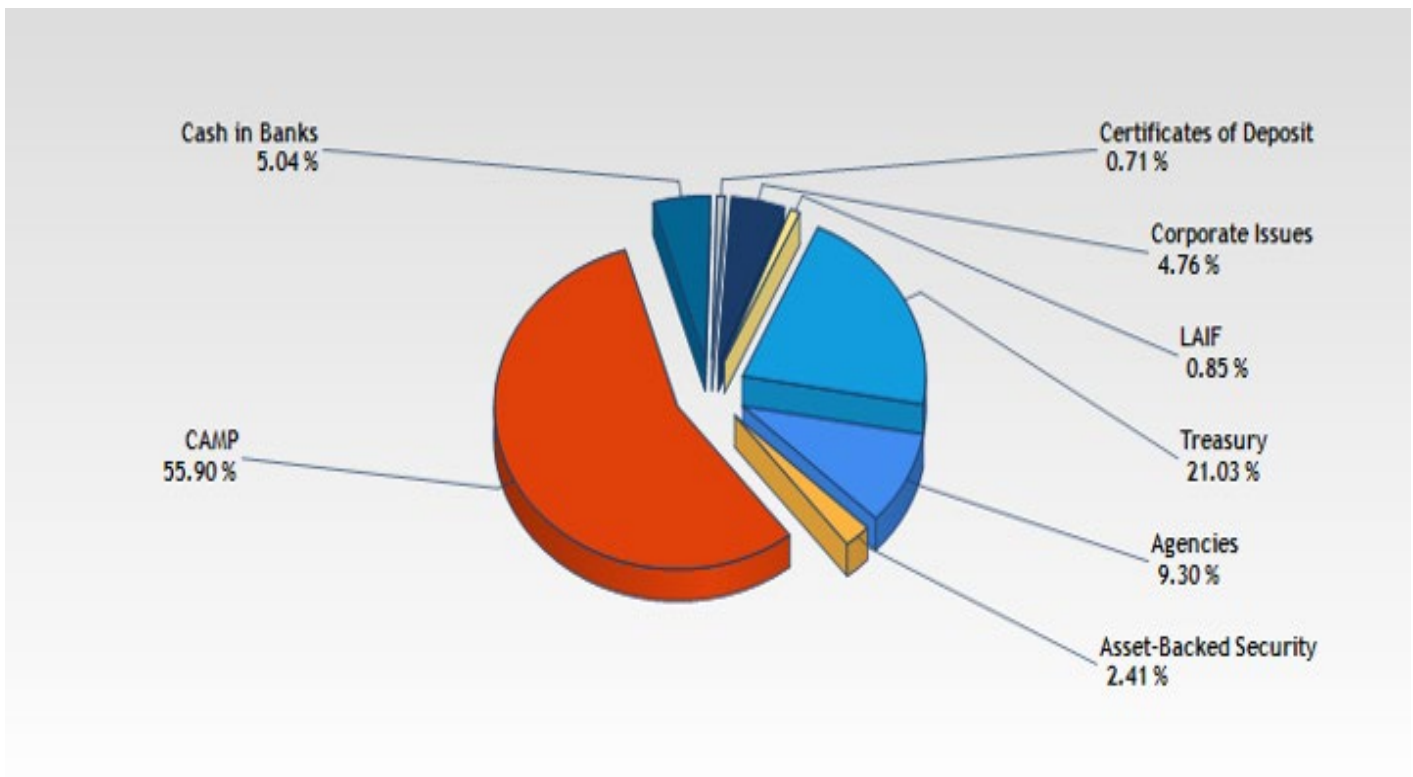
2 Year Treasury: Yield for investing in 2-Year U.S. Treasury security

USD Yield: Summarizes USD portfolio's yield

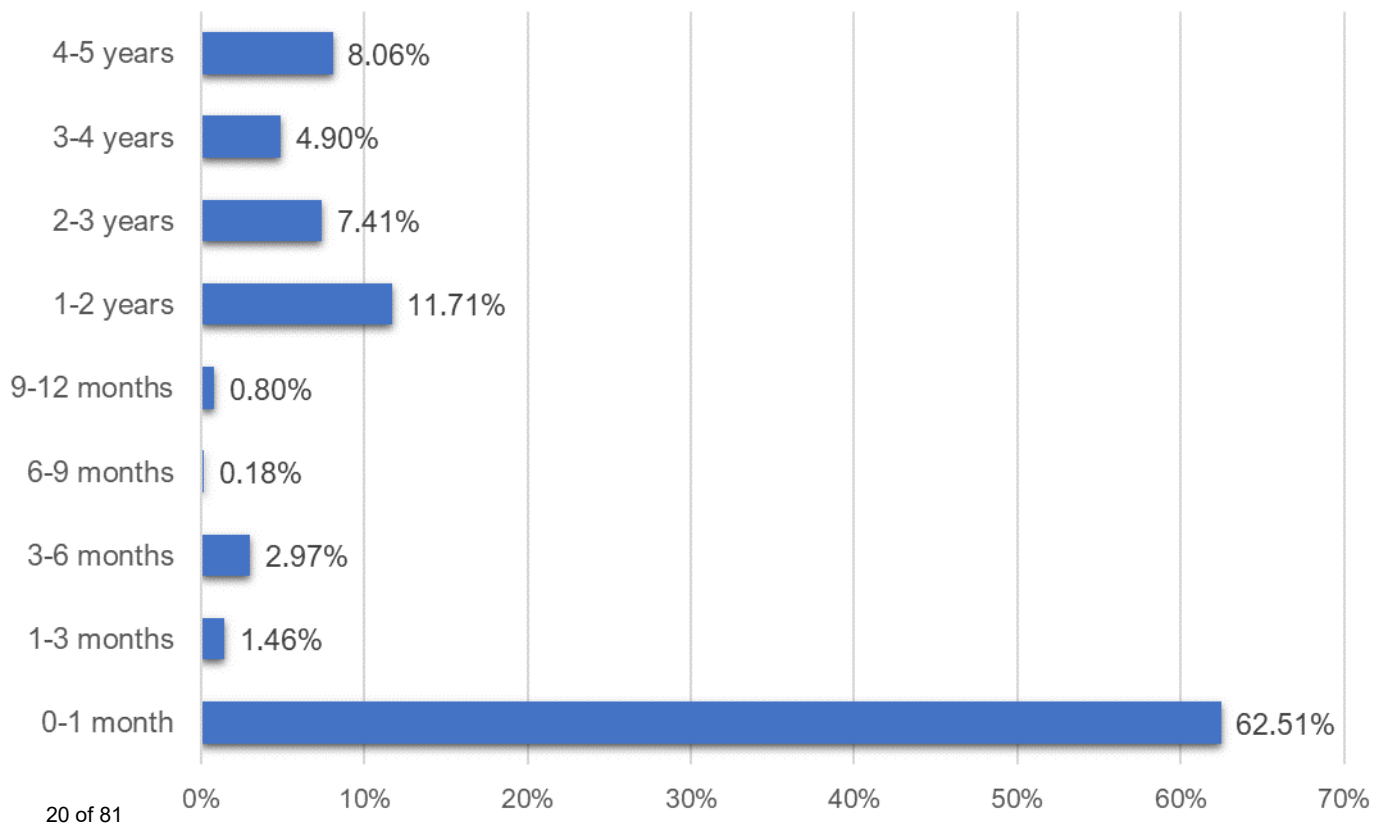
CAMP: California Asset Management Program Yield

# 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 November 1, 2023 through November 30, 2023, there was 1 odor related service request received by the District.

<b>City</b>	Fremont		
<b>District Related:</b>	No	<b>Date/Time:</b>	11/10/23 11:32AM
<b>Location:</b>	Keystone Drive	<b>Reported by:</b>	Luis Cuellar
<b>Weather/Temp:</b>	Partly Cloudy / 64°	<b>Wind:</b>	7mph / West

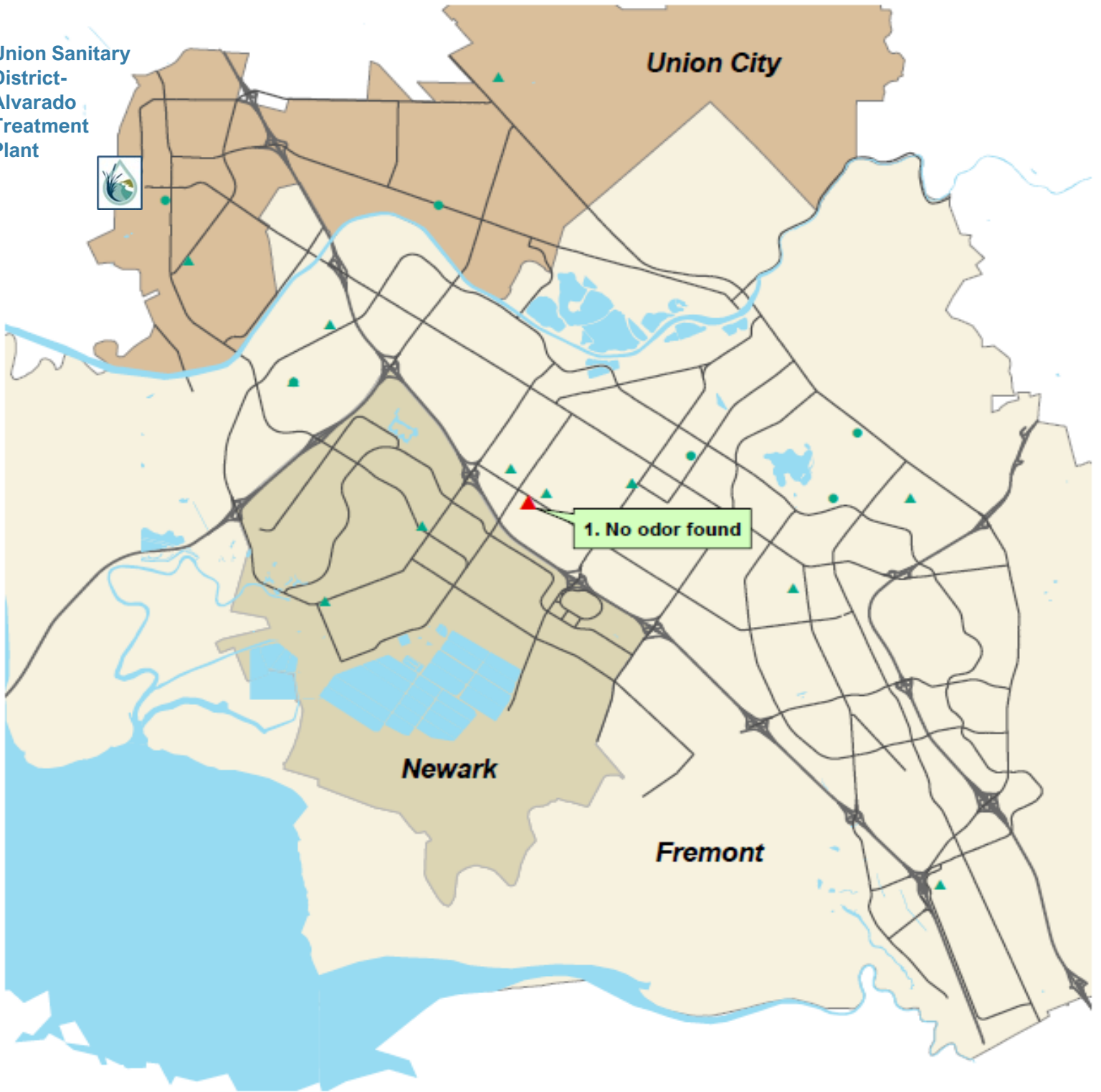
**Response and Follow-up:** A Trouble Call Inspector responded to a report of a sewage smell at 5050 and 5070 Keystone Drive. Both residents reported that the smell was in the backyard area of the homes.

There was no visual evidence of unsanitary or odor causing conditions on the exterior of the homes. The inspector checked the upstream and downstream manholes and nearby storm drain inlet. No obstructions were observed, nor were any odors found; flow was normal.

Findings were shared with the residents. They were asked to call back if odor returned.

# Union Sanitary District Odor Map and Report

Union Sanitary District-  
Alvarado  
Treatment  
Plant



## Legend

### Odor Complaints: November 2023

- ★ Odor found, USD resolved (0)
- Odor found, not related to USD (0)
- ▲ No odor found (1)

### Odor Complaints: Dec. 2022 to Oct. 2023

- ★ Odor found, USD resolved (0)
- Odor found, not related to USD (8)
- ▲ No odor found (13)

## Location of Odor Reports December 2022 to November 2023





### Customer Service Response

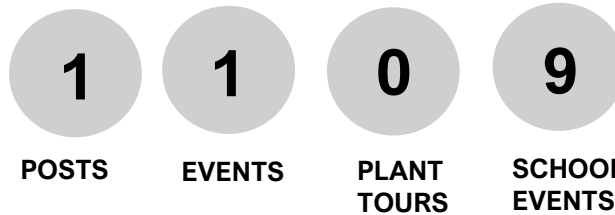
#### Front Desk Trouble Calls

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
Nov-23	7	3	1	11
Oct-23	9	1	1	11
Sep-23	6	1	1	8
Aug-23	9	1	2	12
Jul-23	9	2	3	14
Jun-23	8	0	1	9
6 Month Total				65
Nov-22	12	5	3	20

### Communication and Outreach

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



#### Social Media Posts:

- Environmental Compliance Inspector I/II recruitment

#### Events:

- 5<sup>th</sup> grade presentation at Union City Library

#### Other Activities:

- None



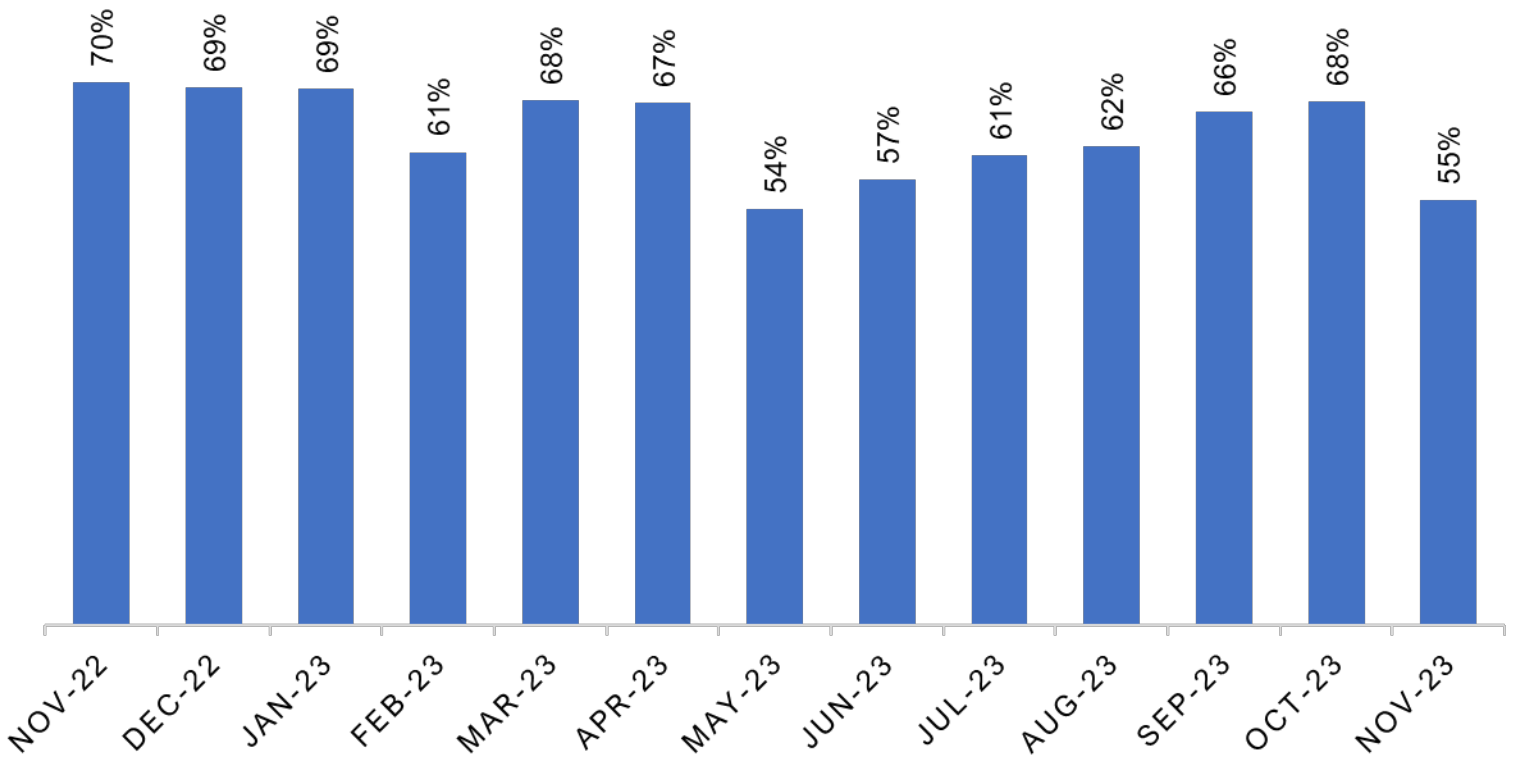
# Plant Operations

## 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





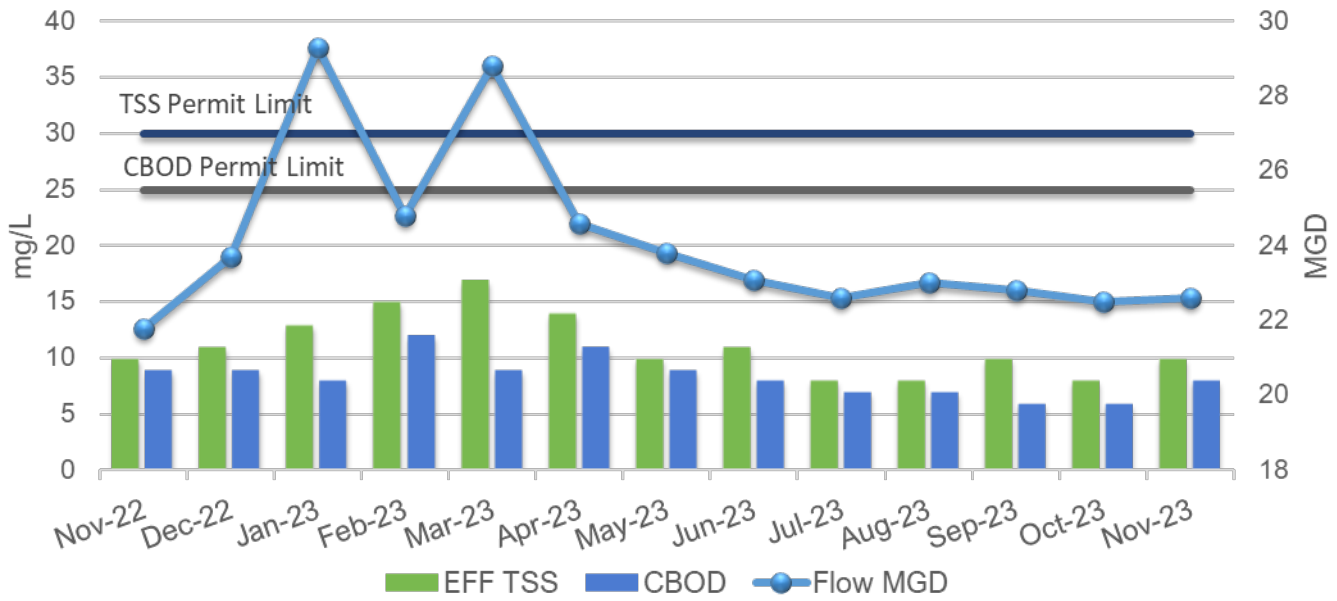
# Plant Operations

## 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	Sep-23	Oct-23	Nov-23
Copper, µg/l	53	2.8	2.6	4.4
Mercury, µg/l	0.066	NA	NA	0.029
Cyanide, µg/l	20	ND 1.1	ND 1.1	ND 1.1
Ammonia- N, mg/L (Range)	86	42 - 46.2	41 - 47.4	40.6 - 46.4
Fecal Coliform, MPN/100ml (Range)				
• 5-Day Geometric Mean	500	21 - 34	26 - 34	43 - 64
• 11-Sample 90th Percentile	1100	59 - 66	52 - 59	59 - 61
Enterococci				
• 6-Week Geometric Mean	280	37	29	26

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

**NO DATA AVAILABLE FOR NOVEMBER 2023**

**NOTE:** At the time of publication, the California State Water Resources Control Board spill reporting tool that is used to compile spill comparison data was not available. The state has been contacted and responded that the reporting tool has been taken down temporarily to update the report to include data from the new SSO General Order.

### 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.

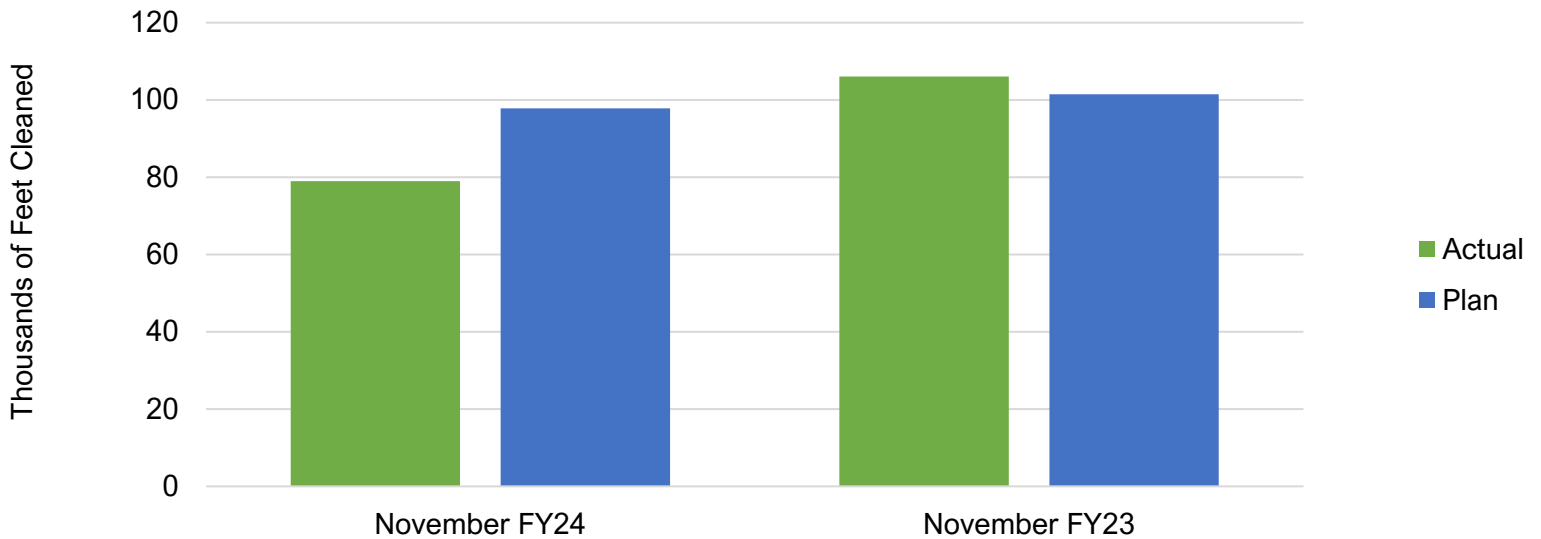
	This Month	Fiscal Year to Date	Historical Monthly Average
Sewer Line Repairs - # of Open Trench	0	5	0
Sewer Line Repairs - # of Trenchless	8	9	4
Work Orders Completed on Vehicles and Buildings	140	876	175



# Maintenance Report

## 2023 MONTHLY OPERATIONS REPORT

### Sewer Line Cleaning



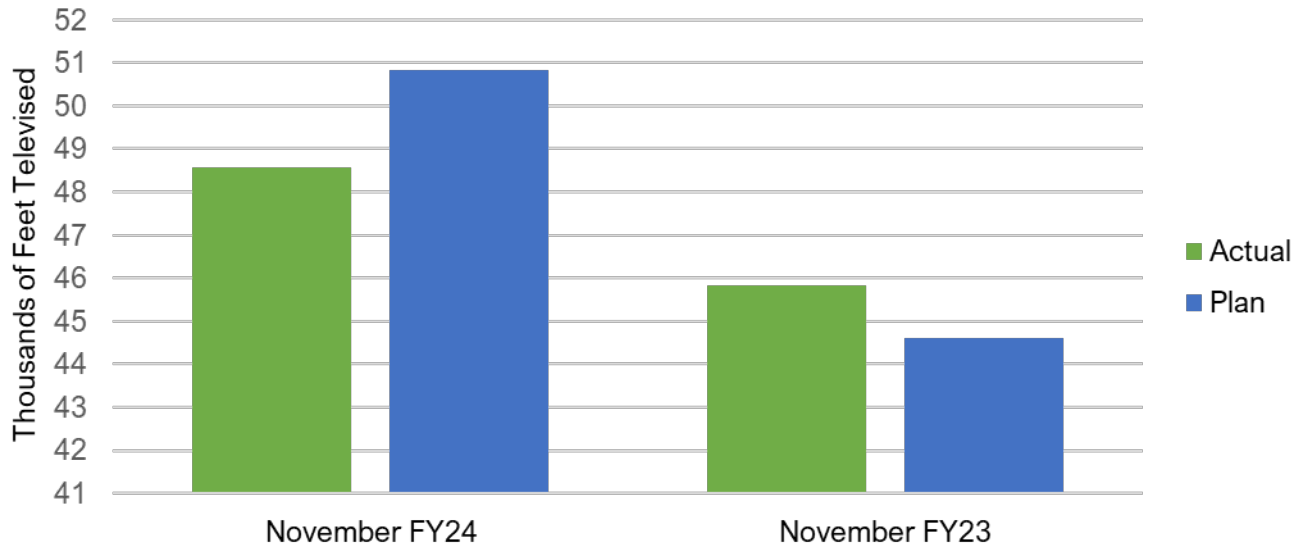
Cleaning Cost per Foot=\$0.88							
Description	FY24 Qtr 1 Footage	Oct-23 Footage	Nov-23 Footage/Count	FY24 YTD	Historical FY23	FY24 YE Goal	% Completed to Plan
84 Month Hydro-Jet Clean	162,988	32,787	49,691	245,466	589,507	680,354	36.1%
Selective Line Cleaning	63,183	6,132	1,115	70,430	211,253	216,307	32.6%
Special Condition Clean (not in total)	9,383	5,585	396	14,968	36,554	28,940	51.7%
Root Control/Chemical Clean	12,073	47,121	28,183	87,377	420,273	277,200	31.5%
Cast Iron Cleaning	-	-	-	-	7,498	-	0.0%
<b>Totals</b>	<b>238,244</b>	<b>86,040</b>	<b>78,989</b>	<b>403,273</b>	<b>1,228,528</b>	<b>1,173,861</b>	<b>34.4%</b>



# Maintenance Report

## 2023 MONTHLY OPERATIONS REPORT

### Sewer Line Inspection and Televising



Televising Cost per Foot=\$1.10							
Description	FY24 Qtr 1 Footage/Count	Oct-23 Footage/Count	Nov-23 Footage/Count	FY24 YTD	Historical FY23	FY24 Goal	% Completed to Plan
84 Month TV Inspection	92,765	35,202	48,579	176,546	478,376	530,567	33.3%
84 Month Manhole Inspection Count	629	163	247	1,039	2,563	2,676	38.8%
Visual/Condition, Pre/Post Cnst TV (not in total)	64	314	206	378	10,483	11,704	3.2%
Visual Manhole Inspection Count (not in total)	42	-	48	42	247	-	-
New Development, CIP, Misc (not in total)	1,318	314	2,455	4,087	25,583	27,744	14.7%
QA/QC Line Condition	-	-	-	-	16,436	52,843	0.0%
QA/QC Root Control	28,335	-	-	28,335	41,050	27,744	102.1%
<b>Totals</b>	<b>121,100</b>	<b>35,202</b>	<b>48,579</b>	<b>204,881</b>	<b>535,862</b>	<b>611,154</b>	<b>33.5%</b>

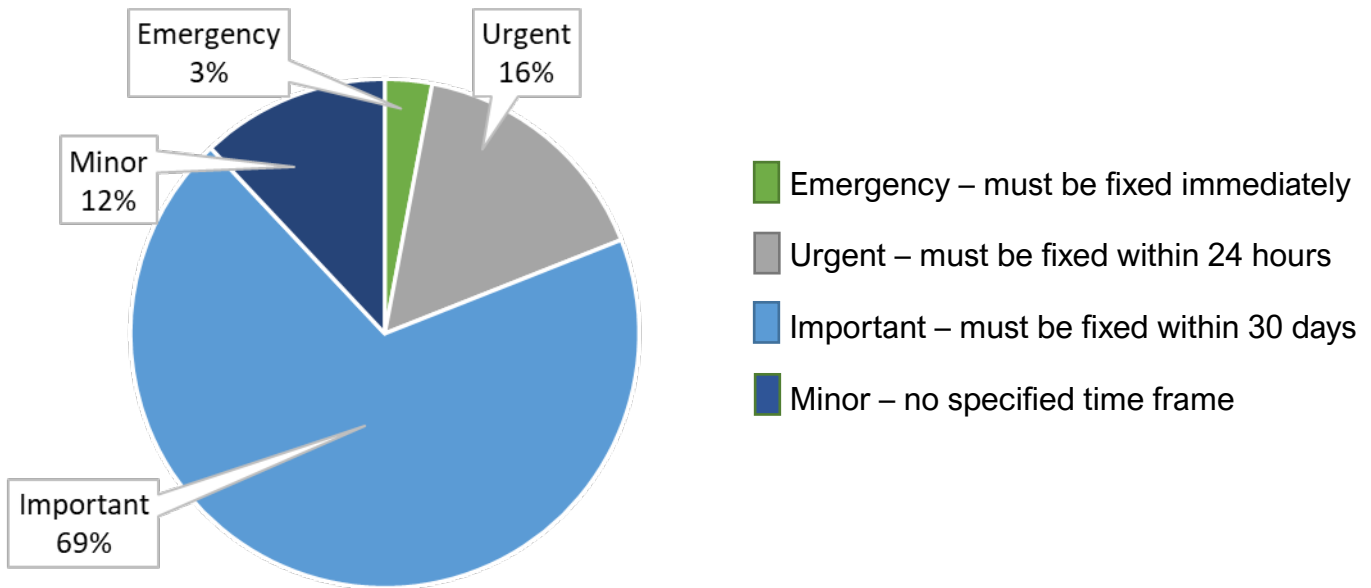


# Maintenance Report

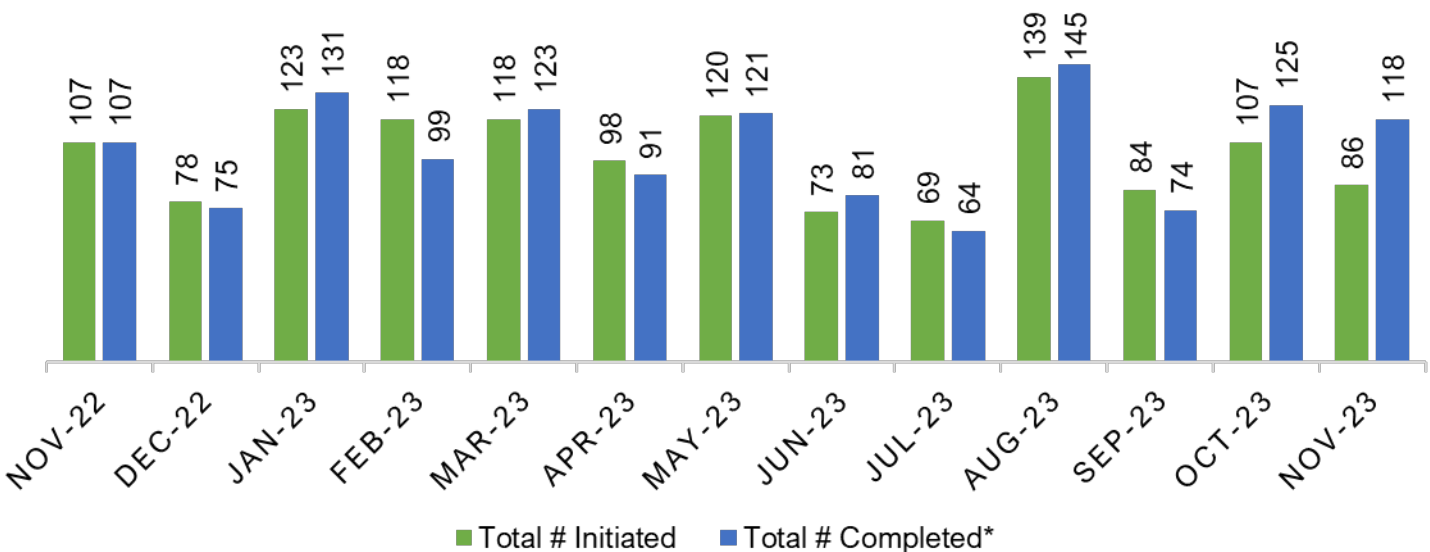
## 2023 MONTHLY OPERATIONS REPORT

### 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 98.36% 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.



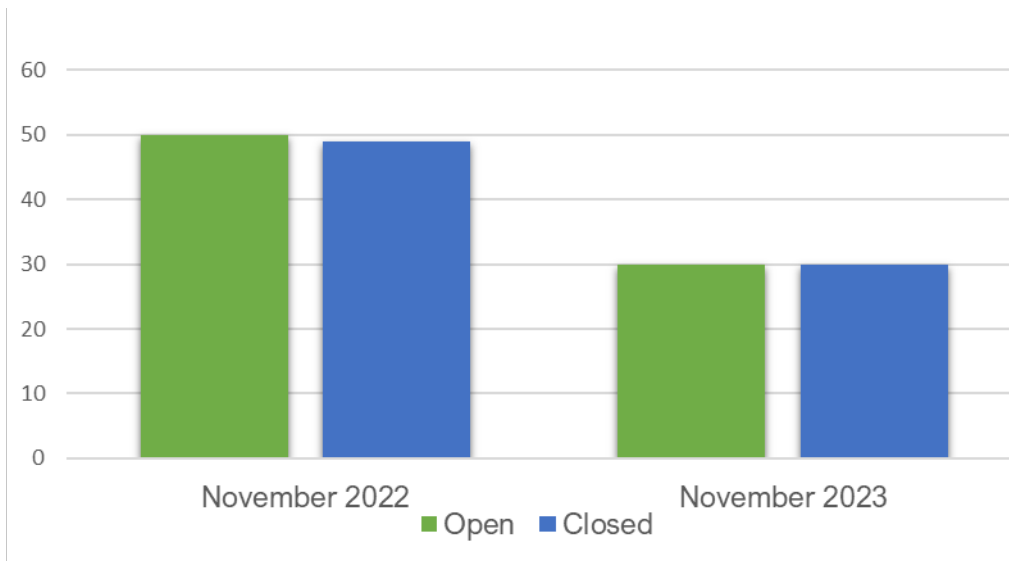
# Maintenance Report

## 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	99.99%
Email Server	Hosted	100%
Newark Pump Station	USD Managed	99.98%
Boyce Pump Station	USD Managed	99.96%
Irvington Pump Station	USD Managed	99.98%
SCADA	USD Managed	98.99%
Total Average of All USD Servers	USD Managed	99.94%

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 (FY24) CIP Projects	Budget (\$1,000)	Spent to Date (\$1,000)	Scheduled Completion	Completed Scope
1 – Force Main Corrosion Repairs Project – Phase 4	\$2,042	\$0	10/24	0%
2 – Irvington Basin Reinforced Concrete Pipe Rehabilitation Project	\$5,291	\$5,291	12/22	99%
3 – Plant Miscellaneous Improvements Project	\$5,544	\$425	9/24	8%
4 – Standby Power Generation System Upgrade Project	\$21,135	\$16,400	6/24	77%



**Standby Power Generation System Upgrade Project**



# Capital Improvement Projects

## 2023 MONTHLY OPERATIONS REPORT

### Design Phase – Budget and % of Completed Scope

Current (FY24) Design Phase	Budget (\$1,000)	Spent to Date (\$1,000)	Scheduled Completion	Completed Scope
1 – Pump Stations Chemical System Improvements Project	\$943	\$777	12/23	88%
2 – Switchboard No. 3 and MCC No. 25 Replacement Project	\$95	\$71	7/22	77%
3 – WAS Thickener Replacement Project	\$1,017	\$951	6/23	95%

### Study Phase – Budget and % of Completed Scope

Current (FY24) Study Phase	Budget (\$1,000)	Spent to Date (\$1,000)	Scheduled Completion	Completed Scope
1 – Alvarado Basin Capacity and Condition Assessment	\$399	\$18	11/24	18%
2 – Co-Digestion Feasibility Study	\$125	\$0	3/24	15%
3 – Cogeneration Replacement and Ventilation Study	\$142	\$137	7/22	98%
4 – Digester Efficiency Study	\$353	\$145	11/23	70%
5 – Energy Resiliency Study	\$256	\$271	12/22	98%
6 – Force Main Condition Assessment	\$121	\$60	10/22	70%
7 – Headworks Degritting Study	\$200	\$191	10/22	99%
8 – Primary Digester No. 8 Feasibility Study	\$111	\$137	9/22	90%
9 – Sea Level Rise Study	\$162	\$162	11/22	99%





# Permitting and Inspections

## 2023 MONTHLY OPERATIONS REPORT

### Sewer Permits Issued

Permits issued upon approved completed plans.

Month	Repairs	Mains	New Laterals*	Secondary Units	Other**	Total
Nov-23	16	0	28	6	0	50
Oct-23	21	0	41	12	4	78
Sep-23	6	0	18	8	0	32

\*New residential lateral connections

\*\*Non-residential construction

### 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
101	506	3	0	3	7	0	0	13

### 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
63	328	6	2	0	0	0	0	8

### 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

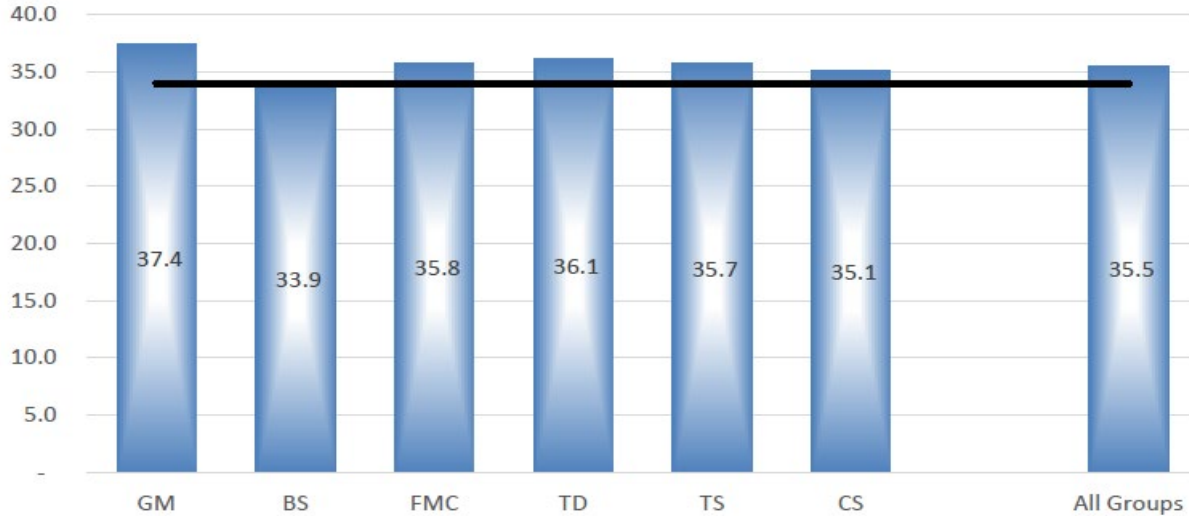
## 2023 MONTHLY OPERATIONS REPORT

### Hours Worked and Leave Time by Work Group

June 22, 2023 through November 22, 2023

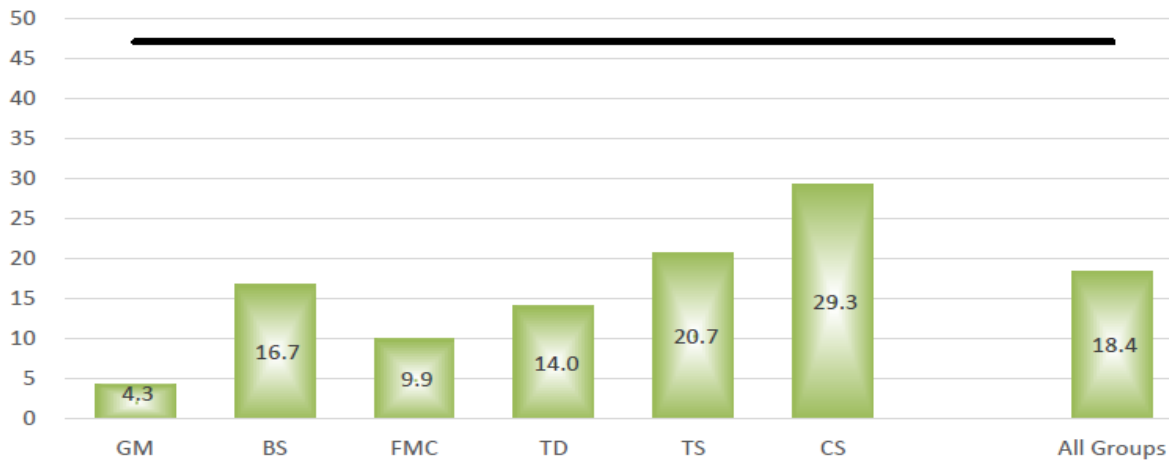
Weeks to Date 22 out of 52 (42.307%)

#### At-Work Hours Per Employee Per Week



Target is 34

#### Average Annual Sick Leave Used Per Employee Per Date



Target is 47

### Recruitments

Position	Position Posted	Status
Construction Inspector I/II – (2 positions)	9/29/2023	Two candidates in background process.
FMC Planner/Scheduler I – Limited Duration	9/29/2023	Steve Noegel, Internal promotion 11/18/2023.
FMC Mechanical Maintenance Coach	10/24/2023	In progress.
Sr. Process Engineer	11/1/2023	In progress.
Environmental Compliance Inspector I/II	11/28/2023	In progress.



**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*

**JANUARY 8, 2024  
BOARD OF DIRECTORS MEETING  
AGENDA ITEM # 10**

**TITLE:** **Review and Consider Approval of the Assistant Process Engineer and Associate Process Engineer Position Descriptions Salary Ranges (*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 Assistant Process Engineer and Associate Process Engineer position descriptions and salary ranges.

**Discussion**

With the departure of the previous Senior Process Engineer in October 2023, the District has taken the opportunity to review the classification and identify growth pathways for the Process Engineer series. The District had previously created the Senior Process Engineer classification in 2014, but at the time did not develop the classification as part of a series to include the Assistant and Associate level classifications. After reviewing District needs and challenges in recruiting for the Senior level position, it was determined that the addition of the Assistant Process Engineer and Associate Process Engineer classifications would help to meet the operational goals and address recruitment challenges.

The Process Engineer position performs complex engineering work supporting the day-to-day operations of the District's Wastewater treatment plan. The position works to troubleshoot process-related problems; makes recommendations for process optimization and assesses the impact on emerging wastewater treatment standards and current District processes. The addition of the Assistant and Associate levels to the Process Engineer series allows for the learning and development of incumbents at lower levels as they continue to progress in their understanding of and autonomy in the positions. The job descriptions reflect adjusted duties and minimum qualifications to better reflect the Assistant and Associate engineering levels.

The salary ranges for both classifications have been set to the same ranges of the already established general Assistant and Associate Engineer classifications. The salary ranges are proposed as follows:

Assistant Process Engineer: \$121,135.56 - \$158,990.21 annually.

Associate Process Engineer: \$135,907.62 - \$178,378.72 annually.

**Background**

The Assistant Process Engineer and Associate Process Engineer are new classifications within the Process Engineer series. The Senior Process Engineer classification was previously established in 2014.

**Previous Board Action**

None.

**Attachments**

- Assistant Process Engineer Position Description
- Associate Process Engineer Position Description



## Assistant Process Engineer

Class Code:  
**XXX**

UNION SANITARY DISTRICT  
Established Date: **December 18, 2023**

### SALARY RANGE

\$58.24 - \$76.44 Hourly  
\$4,659.06 - \$6,115.01 Biweekly  
\$10,094.62 - \$13,249.18 Monthly  
\$121,135.46 - \$158,990.21 Annually

### DESCRIPTION:

Under general supervision in a team environment, the Assistant Process Engineer performs a wide variety of complex process engineering work supporting all operational aspects of a 33 million gallon per day wastewater treatment plant; utilizes a variety of office and specialized engineering software and applies statistical techniques in the interpretation of data; assists in the review the efficiency of unit processes and operations; proposes operational adjustments needed; analyzes plant energy production and usage data and recommends strategies for maximizing pollutant removal and energy efficiency. This position collaborates with operations, maintenance, engineering, laboratory, and management staff to troubleshoot and resolve complex process-related problems; may serve as backup to the R&S Team Coach in preparing regulatory submittals to the water board and air board; validates cogeneration system conformance categorical requirements.

The Assistant Process Engineer is responsible for developing and maintaining an understanding of plant processes, operation and infrastructure; keeping informed of changing wastewater treatment standards, emerging technologies and techniques, changes in wastewater, biosolids and air regulations and assessing the impact of these changes on treatment plant operation and costs. The Assistant Process Engineer provides recommendations to operations, engineering, and management, assists in the prioritization of capital improvement projects for the treatment plant; and assists in the budget preparation process.

The Assistant Process Engineer assists in conducting research, feasibility studies, pilot studies and helps to provide engineering design and assists in oversight of minor construction projects associated with these projects. This position is responsible for conducting optimization projects and start-up of new facilities; assists in reviewing engineering plans and specifications during project design and implementation; provides analysis and technical recommendations to management and engineering staff from an operational or process perspective; may participate in the consultant selection process; conducts studies and small engineering projects as required; prepares reports, data summaries and grant applications; works with Staff to understand treatment objectives, creates scoping documents and negotiates logistics for plant investigations, studies and internal projects; may represent the District at professional association activities and presents results of research, process and optimization projects at key industry conferences.

The Assistant Process Engineer is alternately staffed with Associate Process Engineer after gaining experience and meeting the requirements of the Associate Engineer. As experience and proficiency are gained, assignments will become more varied and difficult. Job duties may vary, depending on the needs for this position and based upon the workload at the District.

### EXAMPLES OF DUTIES:

- Performs or assists in the performance standard process engineering calculations including but not limited to hydraulic and mass loading calculations.

- Conducts or assists in conducting process and energy research projects and special studies dealing with all aspects of wastewater treatment including collection systems.
- Conducts or assists in internal research studies to evaluate treatment plant performance, analyze operational anomalies, prepare reports, and make presentations to management, USD's Board of Directors, and others.
- Assists in the devising of experiments to determine the applicability and effectiveness of new chemicals, products, or technologies. Provide a report of results and recommendation to management. Conduct pilot and full-scale process testing.
- Assists as start-up engineer to oversee the transition of new facilities from the construction phase through their incorporation as routine operating facilities; including testing; operator training and facility optimization.
- Assists or evaluates unit processes and operations and may assist in the development of recommended adjustments for increased efficiency or performance. Perform cost/benefit analysis.
- Assists operations in troubleshooting treatment plant problems, document investigation results, and may assist in the development of recommendations to plant operations and management.
- Along with others, works with operations and laboratory staff to implement and evaluate process modifications.
- May participate in consultant selection for consultant contracts; may assist in oversight and coordination of consultant contracts.
- Reviews plans and specifications, construction sequencing and logistics for wastewater facility projects and provides comments to project engineers.
- Works with staff to investigate operational anomalies, understand technical data needs and recommend the most logical approach to obtaining the data.
- Provides data to CIP and treatment plant operations as needed to inform operations, support process optimization study and design projects.
- Reviews or assists in review of treatment plant operational data to determine compliance with permit conditions, e.g., calculating thermal input to evaluate compliance with Air Board requirements for cogeneration.
- Assists in and perform calculations for the annual Air Board information updates.
- Performs or assists in performing computer modeling of the activated sludge system and secondary clarifiers. E.g., BioWin simulation or operation of a digital twin.
- Reviews plant power production and usage and assists in the development of recommended operational strategies for cogeneration system operation.
- Act as the District's energy efficiency champion. Review treatment plant and pump station energy bills and electrical tariffs: research alternative electrical tariffs and rules and regulations governing third party suppliers for natural gas and energy; assist in the development of recommendations to management regarding the most efficient procurement of energy for the District.
- May answer process-related phone calls from the District Staff when available.
- Assists in preparation of applications for grants and rebates from PG&E and others.
- Assists in the preparation and/or review of technical and regulatory reports for external agencies, including certification of cogeneration system eligibility for PG&E, PG&E downtime, and natural gas usage reports.

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

## **QUALIFICATIONS:**

### Education and Experience:

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:

A bachelor's degree with major coursework in civil or environmental engineering, or a closely related field from an ABET accredited college or university, and a minimum of two years increasingly responsible experience related to process engineering of a wastewater treatment systems and pumping facilities, at a wastewater treatment plant or engineering consultant firm. Upon review, an advanced degree can be substituted for up to one year of experience requirement. Plant operation experience is

highly desirable, energy management expertise is highly desirable.

Knowledge of: Principles of physical, biological, and chemical wastewater treatment processes, including regulatory requirements for liquid, solids, and air process, NPDES, air emissions, and solids disposal; engineering mathematics, economics, and principles of statistical analysis; process control principles and methods and the range of equipment used in their application; principles of analytical chemistry and applications in a water quality laboratory; civil and sanitary engineering principles, practices, and methods; methods and techniques used in design and construction as applied to planning, pilot facility design and construction, cost estimation; construction start-up and performance testing for wastewater treatment facilities; applicable federal, state, and local laws and regulatory codes relevant to wastewater system design, construction, and plant operations; principles and practice of supervision; project management and contract administration principles; pertinent safety standards and practices including applicable OSHA safety standards.

Skill in: Analyzing moderately difficult civil, sanitary and /or environmental engineering data and reports and drawing sound conclusions; execution of experiments and process testing plans to evaluate unit processes and operations or troubleshoot problems; conducting, evaluating, and reviewing the results of engineering investigations and studies including cost estimates and design specifications for conformance with sound engineering principles and practices; preparing plans, designs, sketches, estimates, and draft specifications for wastewater process studies and treatment facility improvements; conducting plant operations and economic studies; preparing clear, concise, and accurate reports and correspondence; monitoring consultant studies and design projects; coordinating, communicating and planning work with treatment plant operations and other workgroups; supervising staff in the field during process studies, process modifications, or the evaluation of newly constructed improvements; modeling wastewater treatment operations and processes using a variety of microcomputer based methods; and negotiating power purchase and sales agreements with PG&E and other organizations.

Ability to: Develop and maintain a detailed understanding of treatment plant infrastructure; processes, operations, regulatory constraints; learn how to inspect plant facilities and recognize inefficient, unusual, or dangerous operating conditions; exercise sound judgment in emergency situations; train sub-professional staff; learn to interpret process control tests and recommend actions to plant operations or management; make complex engineering computations; learn to adapt and apply new technology to the treatment of wastewater and control of airborne pollutant emissions; abide by District and OSHA safety precautions and standards; coordinate a variety of activities both within the work group and with other work groups; understand, carry out and provide oral and written instructions in English; make effective oral reports and presentations.

Interpersonal Effectiveness: Ability to work effectively in a team-based organization; communicate clearly and concisely, both orally and in writing; deal tactfully and effectively with representatives of regulatory and other governmental agencies, professional services consultants, contractors, customers, District staff, and peers; and 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.

Licenses, Certificates, or Credentials:

- Must possess Engineering in Training (EIT) certification.
- Must possess a valid Class C California driver's license, have and maintain a satisfactory driving record and be insurable by the District to operate District vehicles.
- Possession of a California SWRCB Wastewater Operator Certificate is highly desirable.

Other Requirements:

- Must possess the physical characteristics to perform the critical and important duties of the class.
- Must be willing to work outdoors in a variety of weather conditions and work overtime, nights and weekends 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.





## Associate Process Engineer

Class Code:  
**XXX**

UNION SANITARY DISTRICT  
Established Date: **December 18, 2023**

### SALARY RANGE

\$65.45 - \$85.76 Hourly  
\$5,227.22 - \$6,860.72 Biweekly  
\$11,325.63 - \$14,864.89 Monthly  
\$135,907.62 - \$178,378.72 Annually

### DESCRIPTION:

Under general supervision in a team environment, the Associate Process Engineer performs a wide variety of complex process engineering work supporting all operational aspects of a 33 million gallon per day wastewater treatment plant; utilizes a variety of office and specialized engineering software and applies statistical techniques in the interpretation of data; calculates the efficiency of unit processes and operations; proposes operational adjustments needed; analyzes plant energy production and usage data and recommends strategies for maximizing pollutant removal and energy efficiency. This position collaborates with operations, maintenance, engineering, laboratory, and management staff to troubleshoot and resolve complex process-related problems; serves as backup to the R&S Team Coach in preparing regulatory submittals to the water board and air board; validates cogeneration system conformance categorical requirements.

The Associate Process Engineer is responsible for developing and maintaining an understanding of plant processes, operation and infrastructure; keeping informed of changing wastewater treatment standards, emerging technologies and techniques, changes in wastewater, biosolids and air regulations and assessing the impact of these changes on treatment plant operation and costs. The Associate Process Engineer provides recommendations to operations, engineering, and management, assists in the prioritization of capital improvement projects for the treatment plant; and assists in the budget preparation process.

The Associate Process Engineer performs research, conducts feasibility studies, pilot studies and provides engineering design and oversight of minor construction projects associated with these projects. This position is responsible for conducting optimization projects and start-up of new facilities; reviews engineering plans and specifications during project design and implementation; provides analysis and technical recommendations to management and engineering staff from an operational or process perspective; participates in the consultant selection process; conducts studies and small engineering projects as required; prepares reports, data summaries and grant applications; works with Staff to understand treatment objectives, creates scoping documents and negotiates logistics for plant investigations, studies and internal projects; represents the District at professional association activities and presents results of research, process and optimization projects at key industry conferences.

The Associate Process Engineer is alternately staffed with Senior Process Engineer, depending on the needs for this position and based upon workload at the District. The Associate Process Engineer is distinguished from the Senior Process Engineer in that the Senior Process Engineer has a higher degree of autonomy and authority in decision making.

### EXAMPLES OF DUTIES:

- Perform standard process engineering calculations including but not limited to hydraulic and mass loading calculations.

- Conduct process and energy research projects and special studies dealing with all aspects of wastewater treatment including collection systems.
- Conduct internal research studies to evaluate treatment plant performance, analyze operational anomalies, prepare reports, and make presentations to management, USD's Board of Directors, and others.
- Devise experiments to determine the applicability and effectiveness of new chemicals, products, or technologies. Provide a report of results and recommendation to management. Conduct pilot and full-scale process testing.
- Act as start-up engineer to oversee the transition of new facilities from the construction phase through their incorporation as routine operating facilities; including testing; operator training and facility optimization. Modify or update operating manuals as needed.
- Evaluate unit processes and operations and recommend adjustments for increased efficiency or performance. Perform cost/benefit analysis.
- Assist operations in troubleshooting treatment plant problems, document investigation results, and make recommendations to plant operations and management.
- Work with operations and laboratory staff to implement and evaluate process modifications.
- Participate in consultant selection; participate in or oversee consultant contracts.
- Review plans and specifications, construction sequencing and logistics for wastewater facility projects and provide comments to project engineers.
- Work with staff to investigate operational anomalies, understand technical data needs and recommend the most logical approach to obtaining the data.
- Provide data to CIP and treatment plant operations as needed to inform operations, support process optimization study and design projects.
- Review treatment plant operational data to determine compliance with permit conditions, e.g., calculating thermal input to evaluate compliance with Air Board requirements for cogeneration.
- Perform calculations for the annual Air Board information updates.
- Perform computer modeling of the activated sludge system and secondary clarifiers. e.g., BioWin simulation or operation of a digital twin.
- Review plant power production and usage and recommend operational strategies for cogeneration system operation.
- Act as the District's energy efficiency champion. Review treatment plant and pump station energy bills and electrical tariffs: research alternative electrical tariffs and rules and regulations governing third party suppliers for natural gas and energy; make recommendations to management regarding the most efficient procurement of energy for the District.
- Answer process-related phone calls from the District Staff when available.
- Prepare applications for grants and rebates from PG&E and others.
- Prepare and review technical and regulatory reports for external agencies, including certification of cogeneration system eligibility for PG&E, PG&E downtime, and natural gas usage reports.

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

## **QUALIFICATIONS:**

### Education and Experience:

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:

A bachelor's degree with major coursework in civil or environmental engineering, or a closely related field from an ABET accredited college or university, and a minimum of four years increasingly responsible experience related to process engineering of a wastewater treatment systems and pumping facilities, at a wastewater treatment plant or engineering consultant firm. Upon review, a relevant advanced degree may be substituted for up to two years of experience requirement. Plant operation experience is highly desirable, energy management expertise is highly desirable.

Knowledge of: Principles of physical, biological, and chemical wastewater treatment processes, including regulatory requirements for liquid, solids, and air process, NPDES, air emissions, and solids

disposal; engineering mathematics, economics, and principles of statistical analysis; process control principles and methods and the range of equipment used in their application; principles of analytical chemistry and applications in a water quality laboratory; civil and sanitary engineering principles, practices, and methods; methods and techniques used in design and construction as applied to planning, pilot facility design and construction, cost estimation; construction start-up and performance testing for wastewater treatment facilities; applicable federal, state, and local laws and regulatory codes relevant to wastewater system design, construction, and plant operations; project management and contract administration principles; pertinent safety standards and practices including applicable OSHA safety standards.

Skill in: Analyzing complex civil, sanitary and /or environmental engineering data and reports and drawing sound conclusions; devising experiments and process testing plans to evaluate unit processes and operations or troubleshoot problems; conducting, evaluating, and reviewing the results of engineering investigations and studies including cost estimates and design specifications for conformance with sound engineering principles and practices; preparing plans, designs, sketches, estimates, and draft specifications for wastewater process studies and treatment facility improvements; conducting plant operations and economic studies; preparing clear, concise, and accurate reports and correspondence; managing consultant studies and design projects; coordinating, communicating and planning work with treatment plant operations and other workgroups; modeling wastewater treatment operations and processes using a variety of microcomputer based methods; and negotiating power purchase and sales agreements with PG&E and other organizations.

Ability to: Develop and maintain a detailed understanding of treatment plant infrastructure; processes, operations, regulatory constraints; Inspect plant facilities and recognize inefficient, unusual, or dangerous operating conditions; exercise sound judgment in emergency situations; assist in the training of staff; interpret process control tests and recommend actions to plant operations or management; make complex engineering computations; adapt and apply new technology to the treatment of wastewater and control of airborne pollutant emissions; abide by District and OSHA safety precautions and standards; coordinate a variety of activities both within the work group and with other work groups; understand, carry out and provide oral and written instructions in English; make effective oral reports and presentations.

Interpersonal Effectiveness: Ability to work effectively in a team-based organization; communicate clearly and concisely, both orally and in writing; deal tactfully and effectively with representatives of regulatory and other governmental agencies, professional services consultants, contractors, customers, District staff, and peers; and 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.

Licenses, Certificates, or Credentials:

- Must possess California registration as a Professional Engineer.
- Must possess a valid Class C California driver's license, have and maintain a satisfactory driving record and be insurable by the District to operate District vehicles.
- Possession of a California SWRCB Wastewater Operator Certificate is highly desirable.

Other Requirements:

- Must possess the physical characteristics to perform the critical and important duties of the class.
- Must be willing to work outdoors in a variety of weather conditions and work overtime, nights and weekends 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.



**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*

**JANUARY 8, 2024  
BOARD OF DIRECTORS MEETING  
AGENDA ITEM # 11**

**TITLE:** Consider a Resolution to Accept the Construction of the Irvington Basin Reinforced Concrete Pipe Rehabilitation Project from Insituform Technologies, LLC (*This is a Motion Item*)

**SUBMITTED:** Paul R. Eldredge, General Manager/District Engineer  
Raymond Chau, Technical Services Work Group Manager  
Curtis Bosick, CIP Team Coach  
Andrew Baile, Assistant Engineer

**Recommendation**

Staff recommends the Board consider a resolution to accept the construction of the Irvington Basin Reinforced Concrete Pipe Rehabilitation Project (Project) from Insituform Technologies, LLC (Insituform) and authorize recordation of a Notice of Completion.

**Discussion**

On February 14, 2022, the Board awarded the construction contract for the Project to Insituform in the amount of \$5,290,884. Staff issued the Notice to Proceed to Insituform on April 11, 2022. The 290-day project was scheduled to be completed on January 25, 2023. The Project experienced a few minor delays due to unforeseen field conditions that led to change order work. Insituform substantially completed the Project on February 10, 2023. Staff awaited the receipt of all outstanding administrative items and the completion of punch list/remediation work required by the City of Fremont before recommending project acceptance by the Board.

A description of the scope for the Project is included in the Background section of the report. Refer to Figure 1 for a location map and Figures 2 through 11 for some photos of the work.

Contract Change Orders

The Project included 13 contract change orders (CCOs) in the amount of \$34,105.50 which is approximately 0.6% of the original contract amount. A list of the CCOs is included in the attached Table 1. A summary of the notable CCOs is provided below:

1. CCO No. 1 was in the credit amount of \$16,332. The contract documents required the removal and rehabilitation of four manhole cones to facilitate the lining work located along Kato Road. However, the contractor was able to perform the work without removal of these manhole cones. Staff negotiated a credit for the deletion of this work.
2. CCO No. 3 was in the amount of \$20,000. The contract documents required bypass pipelines to be buried within major intersections to minimize traffic disruptions. During bypass installation, a traffic signal conduit was damaged at the intersection of Auto Mall Parkway and Grimmer Boulevard due to the conduit being previously installed shallower than anticipated. This change order compensated the contractor for all additional costs and impacts associated with this unforeseen condition.
3. CCO No. 8 was in the amount of \$16,508. During the clean water testing of the bypass system at the intersection of Auto Mall Parkway and Grimmer Boulevard, an automobile accident occurred within the intersection that moderately damaged the bypass pipeline installed at this location. Although the pipeline was not the cause of the accident, staff believed it was prudent to have the contractor modify the bypass system and relocate the pipeline from the center median to the adjacent left-hand turn lane. This change order compensated the contractor for all additional costs and impacts associated with this modification.
4. CCO No. 12 was in the credit amount of \$22,982. The contract documents required potholing to locate existing utilities prior to excavations. Various potholing efforts were performed during the project; however, some locations required less than what was anticipated. Staff negotiated a credit for the deletion of the remaining potholing work.

### **Background**

The Irvington drainage basin covers the southern end of the District's service area, collecting wastewater primarily from the city of Fremont and an eastern section of the city of Newark. Several trunk sewers collect the wastewater in the basin and eventually terminates at the Irvington Pump Station located at the southern end of the District. Within the Irvington Basin, there are two lift stations that collect and lift wastewater from deeper collection sewer system sewer mains to higher sewer mains that drain to Irvington Pump Station. The Boyce Road Lift Station is located near the northern section of the basin and the Fremont Boulevard Lift Station is located near the southern section of the basin.

There are approximately 6.25 miles (33,000 feet) of 33- to 48-inch diameter trunk sewers in the Irvington Basin that were installed between the late 1950s and mid-1960s using reinforced concrete pipe (RCP). The trunk sewers are located within the city of Fremont and are the main collectors of the wastewater from the smaller-diameter sewers in the upstream portions of the basin and are vital in transporting the basin's total wastewater to the Irvington Pump Station. Woodard & Curran completed the Project's final design in December 2021. The final design identified pipes to be rehabilitated due to concrete deterioration due to hydrogen sulfide

corrosion, with defects such as extensive concrete spalling with exposed aggregate, exposed steel reinforcement in the concrete, and visual indications of “ribbing,” which is the stage of concrete deterioration right before steel reinforcement is exposed. The defects noted for the vitrified clay and cast-iron pipes included circumferential and longitudinal cracks, deteriorated joint mortar, pulled joints, roots, infiltration, and heavy tuberculation (cast iron corrosion). The defects noted for the trunk sewer manholes included corroded frames and steps, concrete deterioration, roots, and groundwater infiltration at joints.

The project consisted of the following:

- Cured-in-Place Pipe (CIPP) rehabilitation of 7,580 linear feet of sanitary sewer trunk mains in the city of Fremont, which comprises of the following:
  - 6,370 linear feet of 33-inch diameter to 48-inch diameter RCP.
  - 1,060 linear feet of 42-inch diameter vitrified clay pipe.
  - Three sections of 50 linear feet each of 18-inch diameter cast iron siphons.
- Installation of one new sanitary sewer trunk manhole
- Concrete rehabilitation of 26 trunk sewer manholes
- Sewage flow control
- Lateral reinstatement
- Traffic control and surface restoration.

Conсор North America (formerly Quincy Engineers, Inc.) performed the construction management services for the Project.

#### **Previous Board Action**

July 27, 2020, the Board authorized the General Manager to execute an agreement and Task Order No. 1 with Woodard & Curran in the amount of \$104,815 to provide predesign services for the Irvington Basin Reinforced Concrete Pipe Rehabilitation Project.

February 22, 2021, the Board authorized the General Manager to execute Task Order No. 2 with Woodard & Curran in the amount of \$271,417 to provide final design services for the Irvington Basin Reinforced Concrete Pipe Rehabilitation Project.

February 14, 2022, the Board awarded the contract for the Irvington Basin Reinforced Concrete Pipe Rehabilitation Project to Insituform Technologies, LLC in the amount of \$5,290,884.

March 14, 2022, the Board authorized the General Manager to execute Task Order No. 3 with Woodard & Curran in the amount of \$79,510 to provide engineering services during construction of the Irvington Basin Reinforced Concrete Pipe Rehabilitation Project.

April 25, 2022, the Board authorized the General Manager to execute an agreement and Task Order No. 1 with Quincy Engineers, Inc. in the amount of \$494,790 to provide construction management and inspection services for the Irvington Basin Reinforced Concrete Pipe Rehabilitation Project and Force Main Corrosion Repairs Project – Phase 3.


December 12, 2022, the Board authorized the General Manager to execute Amendment No. 1 to Task Order No. 1 with Quincy Engineers, Inc. for the Irvington Basin Reinforced Concrete Pipe Rehabilitation Project, Force Main Corrosion Repairs Project – Phase 3, and Emergency Sewer Repairs in Fremont.

Attachments:        Figures 1 – Location Map  
                             Figures 2 through 11 – Photos  
                             Table 1 – CCO Summary  
                             Resolution  
                             Notice of Completion








Figure 1: Location Map  
 USD Irvington Basin Sanitary Sewer RCP Rehabilitation Project  
 11/28/2021 10:28:20 AM  
 User: [unreadable]  
 Project: [unreadable]  
 Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors

 Trunk sewer mains and manholes to be rehabilitated in the Project.

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors

<b>Figure 1: Location Map</b>  USD Irvington Basin Sanitary Sewer RCP Rehabilitation Project <small>49 of 81</small>	<b>Legend</b>	 Manholes	 Alignment 2	  Project #: 0011758.00 Map Created: October 2020
		 Alignment 1	 Alignment 3	
				

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk. Data Sources:



Figure 2 – Temporary Bypass Pumping System



Figure 3 – Installation of Bypass Piping at Intersection



Figure 4 – Bypass Piping Transitioning from Median to Below Grade



Figure 5 – Bypass Piping Routed on Center Median



Figure 6 – Installation of Cured-in-Place Pipe Liner



Figure 7 – Heating of Cured-in-Place Pipe Liner



Figure 8 – Before photo of Reinforced Concrete Pipe



Figure 9 – After photo of Cured-in-Place Lined Pipe



Figure 10 – Before Photo of Existing Manhole



Figure 11 – After Photo of New Manhole

**Table 1**  
**Irvington Basin RCP Rehabilitation Project**  
**Contract Change Order Summary**

No.	Change Order Description	Contract Time Adjustment, Calendar Days	Cost of Change
1	Deletion of Manhole Cone Removals	0 days	(\$16,332.00)
2	Unforeseen Manhole Rehabilitation	0 days	\$8,400.00
3	Traffic Control Signal Conduit Repair at Auto Mall Pkwy. & Grimmer Blvd.	0 days	\$20,000.00
4	Unforeseen Storm Drain Impact	0 days	\$4,000.00
5	Irrigation System Relocation for New Manhole Installation	0 days	\$4,527.08
6	Frozen Manhole Cover Replacement and Concrete Roadway Restoration	0 days	\$9,448.27
7	Unforeseen CLSM Excavation	0 days	\$2,462.99
8	Realignment of Bypass Pipe at Auto Mall Pkwy. & Grimmer Blvd.	0 days	\$16,508.22
9	Unforeseen Asphalt Concrete Thickness	0 days	\$8,402.94
10	Asphalt Concrete Coating at Delta Electronics	0 days	\$4,200.00
11	Reconciliation of Hazardous Materials Bid Items	0 days	(\$4,530.00)
12	Reconciliation of Utility Potholing Bid Items	0 days	(\$22,982.00)
13	Project Closeout Change Order	16 days	\$0.00
	<b>Total</b>	<b>16 days</b>	<b>\$34,105.50</b>

**RESOLUTION NO. \_\_\_\_\_**

**ACCEPT CONSTRUCTION OF THE IRVINGTON BASIN REINFORCED CONCRETE  
PIPE REHABILITATION PROJECT LOCATED IN THE CITY OF FREMONT,  
CALIFORNIA FROM INSITUFORM TECHNOLOGIES, LLC**

RESOLVED, by the Board of Directors of the UNION SANITARY DISTRICT that it hereby accepts the Irvington Basin Reinforced Concrete Pipe Rehabilitation Project from Insituform Technologies, LLC, effective January 8, 2024.

FURTHER RESOLVED: That the Board of Directors of the UNION SANITARY DISTRICT authorize the General Manager/District Engineer, or his designee, to execute and record a "Notice of Completion" for the Project.

On motion duly made and seconded, this resolution was adopted by the following vote on January 8, 2024:

AYES:

NOES:

ABSENT:

ABSTAIN:

---

MANNY FERNANDEZ  
President, Board of Directors  
Union Sanitary District

Attest:

---

TOM HANDLEY  
Secretary, Board of Directors  
Union Sanitary District





**RECORDING REQUESTED BY  
AND WHEN RECORDED  
RETURN TO:**

**Regina McEvoy  
Union Sanitary District  
5072 Benson Road  
Union City, CA 94587**

NO RECORDING FEE – PER GOVERNMENT CODE SECTIONS 6103 & 27283 (R&T Code 11911)

---

**NOTICE OF COMPLETION**

**NOTICE IS HEREBY GIVEN** by the **UNION SANITARY DISTRICT**, Alameda County, California, that the work hereinafter described, the contract for the construction of which was entered into on February 16, 2022, by said District and **INSITUFORM TECHNOLOGIES, LLC**, 17988 Edison Avenue, Chesterfield, MO 63005, Contractor for the Project, “Irvington Basin Reinforced Concrete Pipe Rehabilitation Project,” was substantially completed on February 10, 2023, and accepted by said District on January 8, 2024.

The name and address of the owner is the **UNION SANITARY DISTRICT**, at 5072 Benson Road, Union City, CA 94587.

The estate or interest of the owner is: FEE SIMPLE ABSOLUTE.

The description of the site where said work was performed and completed is at various locations in the City of Fremont, County of Alameda, State of California.

The undersigned declares under penalty of perjury that the foregoing is true and correct.

Executed on \_\_\_\_\_ at UNION CITY, CALIFORNIA.

\_\_\_\_\_  
PAUL R. ELDREDGE, P.E.  
GENERAL MANAGER/DISTRICT ENGINEER  
UNION SANITARY DISTRICT

**UNION SANITARY DISTRICT  
CHECK REGISTER  
12/02/2023-12/29/2023**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
186225	12/21/2023	114	800532.18	W.M. LYLES CO	MP - AERATION BASIN MODIFICATIONS	\$3,297,854.40	\$3,297,854.40
186231	12/21/2023	114	800545.13	ZOVICH CONSTRUCTION	CAMPUS BUILDINGS (ADMIN, FMC, OPS)	\$2,354,354.76	\$2,354,354.76
186053	12/7/2023	114	2011800433	HAZEN AND SAWYER	ETSU PHASE 1B PROJECT	\$430,746.54	\$669,130.00
	12/7/2023	114	2011801020		MP - AERATION BASIN MODIFICATIONS	\$72,272.74	
	12/7/2023	114	2011801115		CAMPUS BUILDINGS (ADMIN, FMC, OPS)	\$121,387.81	
	12/7/2023	143	201180125		PRIMARY DIGESTER NO. 6 REHABILITATION	\$44,722.91	
186083	12/7/2023	143	800558.1	W.M. LYLES CO	PLANT MISCELLANEOUS IMPROVEMENTS	\$316,138.20	\$316,138.20
186128	12/14/2023	170	4527071	WESTERN ENERGY SYSTEMS	USD E2 LONG BLOCK (COGEN 2)	\$276,987.05	\$276,987.05
186115	12/14/2023	114	202611	PSOMAS CORP	AERATION BASIN MODIFICATIONS (0532) & CAMPUS BUILDING (0545)	\$274,352.26	\$274,352.26
186096	12/14/2023	143	800452.19	CLARK CONSTRUCTION GROUP CA LP	STANDBY POWER SYSTEM UPGRADE	\$193,723.91	\$193,723.91
186226	12/21/2023	114	800532.18E	W.M. LYLES CO	MP - AERATION BASIN MODIFICATIONS - ESCROW	\$173,571.28	\$173,571.28
186099	12/14/2023	170	161478	CUMMINS INC	NPS GENERATOR COOLANT REPAIRS	\$126,810.51	\$126,810.51
186232	12/21/2023	114	800545.13E	ZOVICH CONSTRUCTION	CAMPUS BUILDINGS (ADMIN, FMC, OPS) - ESCROW	\$123,913.41	\$123,913.41

**UNION SANITARY DISTRICT  
CHECK REGISTER  
12/02/2023-12/29/2023**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
186168	12/21/2023	110	932177	HASA INC	4607 GALS SODIUM HYPOCHLORITE	\$14,505.21	\$117,581.28
	12/21/2023	110	932182		4606 GALS SODIUM HYPOCHLORITE	\$14,502.06	
	12/21/2023	110	932445		4455 GALS SODIUM HYPOCHLORITE	\$14,026.63	
	12/21/2023	110	933357		4754 GALS SODIUM HYPOCHLORITE	\$14,968.04	
	12/21/2023	110	933370		4859 GALS SODIUM HYPOCHLORITE	\$15,298.63	
	12/21/2023	110	933714		4757 GALS SODIUM HYPOCHLORITE	\$14,977.49	
	12/21/2023	110	934060		4758 GALS SODIUM HYPOCHLORITE	\$14,980.63	
	12/21/2023	110	934062		4549 GALS SODIUM HYPOCHLORITE	\$14,322.59	
186198	12/21/2023	170	013720231212	PACIFIC GAS AND ELECTRIC	SERV TO 12/05/23 BOYCE RD PS	\$3,182.39	\$109,803.86
	12/21/2023	170	096020231207		SERV TO 11/30/23 CATHODIC PROJECT	\$46.10	
	12/21/2023	170	140120231212		SERV TO 12/04/23 IRVINGTON PS	\$9,793.33	
	12/21/2023	110	170120231211		SERV TO 11/19/2023 PLANT	\$69,634.35	
	12/21/2023	170	380420231207		SERV TO 11/30/23 CHERRY ST PS	\$680.19	
	12/21/2023	170	666720231207		SERV TO 11/30/23 PASEO PADRE PS	\$528.40	
	12/21/2023	170	761520231201		SERV TO 11/26/23 NEWARK PS	\$25,580.49	
	12/21/2023	170	898220231207		SERV TO 11/30/23 FREMONT PS	\$358.61	
186068	12/7/2023	110	170120231127	PACIFIC GAS AND ELECTRIC	SERV TO 10/19/2023 PLANT	\$106,566.12	\$106,566.12
186171	12/21/2023	143	800551.5	INSITUFORM TECHNOLOGIES, LLC	IRVINGTON BASIN RCP REHABILITATION	\$106,343.00	\$106,343.00

**UNION SANITARY DISTRICT  
CHECK REGISTER  
12/02/2023-12/29/2023**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
186123	12/14/2023	110	470015391	USP TECHNOLOGIES	2348 GALS HYDROGEN PEROXIDE	\$10,824.28	\$86,592.40
	12/14/2023	110	470015403		2538 GALS HYDROGEN PEROXIDE	\$11,700.18	
	12/14/2023	110	470015412		2286 GALS HYDROGEN PEROXIDE	\$10,538.46	
	12/14/2023	110	470015547		4434 GALS HYDROGEN PEROXIDE	\$20,928.48	
	12/14/2023	110	470015559		4434 GALS HYDROGEN PEROXIDE	\$20,928.48	
	12/14/2023	110	470015561		2532 GALS HYDROGEN PEROXIDE	\$11,672.52	
186052	12/7/2023	110	930395	HASA INC	4605 GALS SODIUM HYPOCHLORITE	\$14,498.91	\$58,609.61
	12/7/2023	110	930619		4663 GALS SODIUM HYPOCHLORITE	\$14,681.53	
	12/7/2023	110	931387		4600 GALS SODIUM HYPOCHLORITE	\$14,483.17	
	12/7/2023	110	931388		4747 GALS SODIUM HYPOCHLORITE	\$14,946.00	
186081	12/7/2023	110	470015263	USP TECHNOLOGIES	3386 GALS HYDROGEN PEROXIDE	\$15,592.53	\$49,002.17
	12/7/2023	110	470015264		3202 GALS HYDROGEN PEROXIDE	\$14,312.94	
	12/7/2023	110	470015280		2282 GALS HYDROGEN PEROXIDE	\$10,771.04	
	12/7/2023	110	470015303		1806 GALS HYDROGEN PEROXIDE	\$8,325.66	
186058	12/7/2023	141	49220	MARK THOMAS & CO INC	CONSTRUCTION INSPECTION SERVICES 10/02/23 -10/29/23	\$47,055.75	\$47,055.75
186122	12/14/2023		533620231122	US BANK CORP PAYMENT SYSTEM	MONTHLY CAL-CARD REPORT - NOV 2023	\$46,928.22	\$46,928.22
186176	12/21/2023	110	9017812111	KEMIRA WATER SOLUTIONS INC	46,900 LBS FERROUS CHLORIDE	\$11,295.11	\$33,686.66
	12/21/2023	110	9017812198		47,440 LBS FERROUS CHLORIDE	\$11,422.81	
	12/21/2023	110	9017812952		46,160 LBS FERROUS CHLORIDE	\$10,968.74	

**UNION SANITARY DISTRICT  
CHECK REGISTER  
12/02/2023-12/29/2023**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
186111	12/14/2023	143	94054353	MULTIQUIP INC	1 PORTABLE GENERATOR	\$33,015.42	\$33,015.42
186229	12/21/2023	143	227312	WOODARD & CURRAN INC	ALVARADO BASIN CAPACITY & CONDITION	\$15,063.75	\$24,108.75
	12/21/2023	143	227554		ALVARADO BASIN CAPACITY & CONDITION	\$9,045.00	
186079	12/7/2023	173	13088134	TRIMBLE INC	3 MANHOLE SENSORS	\$21,412.33	\$21,412.33
186076	12/7/2023	120	229875	SWRCB - STATE WATER RESOURCES	FY24 ANNUAL WDR FEES - UNION S.D. CS	\$20,085.00	\$20,085.00
186106	12/14/2023	110	9017811655	KEMIRA WATER SOLUTIONS INC	47,620 LBS FERROUS CHLORIDE	\$10,159.92	\$20,007.67
	12/14/2023	110	9017812006		45,380 LBS FERROUS CHLORIDE	\$9,847.75	
186077	12/7/2023	110	230145	SWRCB - STATE WATER RESOURCES	FY24 ANNUAL WDR FEES - ALVARADO WWTP	\$20,000.00	\$20,000.00
186091	12/14/2023		B0BYS0	BENEFIT COORDINATORS CORP	DELTA DENTAL CLAIMS - NOV 2023	\$19,703.77	\$19,703.77
186159	12/21/2023	123	152585	D & L SUPPLY	60 - STANDARD MANHOLE AND RISER FRAME & COVERS	\$17,123.69	\$17,123.69
186149	12/21/2023		20231220	STATE OF CALIFORNIA	SALES & USE TAX 11/01/23 - 11/30/2023	\$16,872.31	\$16,872.31
186161	12/21/2023	110	1426226	DEPARTMENT OF GENERAL SERVICES	SERV: OCT 2023 PLANT	\$14,780.33	\$14,780.33
186104	12/14/2023	110	931746	HASA INC	4655 GALS SODIUM HYPOCHLORITE	\$14,656.34	\$14,656.34
186046	12/7/2023		22454	FUTURE INDUSTRIAL TECHNOLOGIES	FY24 ERGONOMICS TRAINING	\$12,291.90	\$12,291.90
186145	12/21/2023	143	11501971	BROWN & CALDWELL CONSULTANTS	STANDBY POWER SYSTEM UPGRADE	\$10,248.88	\$11,657.97
	12/21/2023	143	11501974		STANDBY POWER SYSTEM UPGRADE	\$1,409.09	
186071	12/7/2023	110	1787580	POLYDYNE INC	41,480 LBS CLARIFLOC WE-539	\$11,484.78	\$11,484.78
186175	12/21/2023	110	9017813468	KEMIRA WATER SOLUTIONS INC	47,120 LBS FERROUS CHLORIDE	\$11,323.49	\$11,323.49
186174	12/21/2023	114	122233	KBM-HOGUE	ETSU PHASE 1 - CAMPUS BLDG FURNITURE PLANNING, SELECTION, PI	\$11,126.34	\$11,126.34

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186105	12/14/2023	150	201180132	HAZEN AND SAWYER	CO-DIGESTION FEASIBILITY STUDY OCT 2023 MONTHLY REPORT	\$10,950.00	\$10,950.00
186078	12/7/2023	110	230152	SWRCB - STATE WATER RESOURCES	FY24 ANNUAL WDR FEES - ALVARADO WWTP	\$10,000.00	\$10,000.00
186056	12/7/2023		374322231201	LINCOLN NATIONAL LIFE INS COMP	LIFE & DISABILITY INSURANCE - DEC 2023	\$9,770.80	\$9,770.80
186043	12/7/2023	110	1425620	DEPARTMENT OF GENERAL SERVICES	SERV: JUL 2023 PLANT	\$9,367.85	\$9,367.85
186144	12/21/2023	121	392099	BRENNTAG PACIFIC INC	3317.6 LBS SODIUM HYDROXIDE	\$2,809.16	\$8,402.13
	12/21/2023	121	392100		6635.2 LBS SODIUM HYDROXIDE	\$5,592.97	
186101	12/14/2023	170	252580	FRANK A OLSEN COMPANY	1 MIX PUMP 4 OR 5 DISCHARGE 16" VALVE	\$7,973.14	\$7,973.14
186070	12/7/2023	130	13983502	PFM ASSET MANAGEMENT LLC	INVESTMENT MANAGEMENT / ADVISORY SERVICES	\$7,756.65	\$7,756.65
186022	12/7/2023	120	4071037120231122	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 11/21/23-BENSON ROAD	\$796.59	\$7,396.20
	12/7/2023	120	4111993720231201		SERV TO: 11/30/23-MTR HYD B34041339	\$935.29	
	12/7/2023	120	4111994020231201		SERV TO: 11/30/23-MTR HYD B15000283	\$777.55	
	12/7/2023	120	4111994120231201		SERV TO: 11/30/23-MTR HYD B16583493	\$1,408.51	
	12/7/2023	120	4111994220231201		SERV TO: 11/30/23-MTR HYD B16583492	\$796.67	
	12/7/2023	120	4111994320231201		SERV TO: 11/30/23-MTR HYD B15072357	\$787.11	
	12/7/2023	120	4111996820231201		SERV TO: 11/30/23-MTR HYD B19329007	\$863.59	
	12/7/2023	120	4111996920231201		SERV TO: 11/30/23-MTR HYD B29454468	\$1,030.89	
186045	12/7/2023	170	252563	FRANK A OLSEN COMPANY	2 METHANE GAS LINE 10" ISOLATION VALVES	\$7,023.99	\$7,023.99
186206	12/21/2023	170	97385	RAMOS OIL COMPANY INC	11 FLEETGUARD ES COMPLEAT EG 50/50	\$6,886.09	\$6,886.09

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186147	12/21/2023	150	311504	BURKE, WILLIAMS & SORENSON LLP	GENERAL LEGAL - OCT 2023	\$361.92	\$6,818.24
	12/21/2023	150	311507		ETSU - OCT 2023	\$998.40	
	12/21/2023	150	311508		STANDBY POWER PROJECT - OCT 2023	\$1,164.80	
	12/21/2023	150	311510		GENERAL LEGAL - OCT 2023	\$4,293.12	
186186	12/21/2023	143	80059003	MCGUIRE & HESTER	EAST WARREN AVENUE SS REPLACEMENT	\$6,417.60	\$6,417.60
186066	12/7/2023	121	2413771500	NEW PIG CORPORATION	3 DRAINBLOCKER AND SPILLBLOCKER	\$6,330.26	\$6,330.26
186143	12/21/2023	132	1673	BOUCHER LAW, PC	LABOR & EE LAW SERV SEP 2023	\$6,210.00	\$6,210.00
186230	12/21/2023	143	5354	WORKSMART AUTOMATION INC	PLANT MISCELLANEOUS IMPROVEMENTS	\$5,735.00	\$5,735.00
186093	12/14/2023	121	389230	BRENNTAG PACIFIC INC	2296.8 LBS SODIUM HYDROXIDE	\$1,944.80	\$5,171.51
	12/14/2023	121	389231		3828 LBS SODIUM HYDROXIDE	\$3,226.71	
186167	12/21/2023	111	9902032870	GRAINGER INC	ASTD PARTS & MATERIALS	\$23.95	\$5,132.34
	12/21/2023	170	9903698927		ASTD PARTS & MATERIALS	\$139.91	
	12/21/2023	170	9903834134		ASTD PARTS & MATERIALS	\$25.09	
	12/21/2023	170	9906664702		ASTD PARTS & MATERIALS	\$32.16	
	12/21/2023		9906744728		ASTD PARTS & MATERIALS	\$2,612.30	
	12/21/2023	170	9909542889		ASTD PARTS & MATERIALS	\$56.87	
	12/21/2023	170	9911137769		ASTD PARTS & MATERIALS	\$531.73	
	12/21/2023		9913078383		ASTD PARTS & MATERIALS	\$151.22	
	12/21/2023		9913146107		ASTD PARTS & MATERIALS	\$1,559.11	

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186113	12/14/2023		28183	PATH CONSTRUCTION INC	REFUND # 60742	\$4,992.50	\$4,992.50
186152	12/21/2023	173	47723	CDW GOVERNMENT LLC	VMWARE LICENSE INCREASE	\$4,918.00	\$4,918.00
186059	12/7/2023	113	2310N91	MCCAMPBELL ANALYTICAL	LAB SAMPLE ANALYSIS	\$230.00	\$4,109.50
	12/7/2023	113	2311197		LAB SAMPLE ANALYSIS	\$925.00	
	12/7/2023	113	2311260		LAB SAMPLE ANALYSIS	\$1,172.00	
	12/7/2023	113	2311442		LAB SAMPLE ANALYSIS	\$816.00	
	12/7/2023	113	2311443		LAB SAMPLE ANALYSIS	\$304.00	
	12/7/2023	113	2311692		LAB SAMPLE ANALYSIS	\$662.50	
186126	12/14/2023		48314	W.L. BUTLER CONSTRUCTION INC	REFUND # 60741	\$4,060.00	\$4,060.00
186223	12/21/2023		33705	VIRTUAL KITCHEN CLUB INC	REFUND # 60772	\$3,880.00	\$3,880.00



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186187	12/21/2023	170	17934806	MCMASTER SUPPLY INC	ASTD PARTS & MATERIALS	\$995.12	\$3,800.84
	12/21/2023	171	18167778		ASTD PARTS & MATERIALS	\$155.28	
	12/21/2023	170	18311707		ASTD PARTS & MATERIALS	\$393.11	
	12/21/2023		18537159		ASTD PARTS & MATERIALS	\$226.99	
	12/21/2023	170	18546918		ASTD PARTS & MATERIALS	\$99.67	
	12/21/2023		18555100		ASTD PARTS & MATERIALS	\$395.12	
	12/21/2023		18712823		ASTD PARTS & MATERIALS	\$208.76	
	12/21/2023		18722963		ASTD PARTS & MATERIALS	\$352.81	
	12/21/2023		18931662		ASTD PARTS & MATERIALS	\$460.30	
	12/21/2023	170	19022823		ASTD PARTS & MATERIALS	\$101.83	
	12/21/2023		19076877		ASTD PARTS & MATERIALS	\$28.41	
	12/21/2023	122	19081004		ASTD PARTS & MATERIALS	\$48.22	
	12/21/2023	121	19360795		ASTD PARTS & MATERIALS	\$335.22	
186117	12/14/2023	120	916005500106	REPUBLIC SERVICES #916	RECYCLE & ROLL OFF - DEC 2023	\$3,598.46	\$3,598.46
186090	12/14/2023		20855881	AT&T	SERV: 10/20/23 - 11/19/23	\$30.41	\$3,597.03
	12/14/2023		20855883		SERV: 10/20/23 - 11/19/23	\$3,300.35	
	12/14/2023		20855905		SERV: 10/20/23 - 11/19/23	\$266.27	
186055	12/7/2023	173	21063740	INFOR PUBLIC SECTOR, INC	HANSEN CONSLTING SERVICES	\$3,540.00	\$3,540.00

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186163	12/21/2023	173	2023284	FARALLON GEOGRAPHICS INC	ARCHES SSC SOFTWARE SUPPORT	\$1,300.00	\$3,333.75
	12/21/2023	173	2023347		ARCHES SSC SOFTWARE SUPPORT	\$512.50	
	12/21/2023	173	2023398		ARCHES SSC SOFTWARE SUPPORT	\$1,521.25	
186067	12/7/2023		19882	NORTH AMERICAN TITLE CO INC	REFUND # 60732	\$3,300.00	\$3,300.00
186074	12/7/2023		761883289601	STAPLES CONTRACT & COMMERCIAL	JANITORIAL & BREAKROOM SUPPLIES	\$315.45	\$3,200.24
	12/7/2023		761905635101		JANITORIAL & BREAKROOM SUPPLIES	\$276.54	
	12/7/2023		761959751501		JANITORIAL & BREAKROOM SUPPLIES	\$2,135.58	
	12/7/2023		762009555901		JANITORIAL & BREAKROOM SUPPLIES	\$260.28	
	12/7/2023		790453837001		JANITORIAL & BREAKROOM SUPPLIES	\$38.76	
	12/7/2023		790453837002		JANITORIAL & BREAKROOM SUPPLIES	\$173.63	
186127	12/14/2023	121	52549	WECO INDUSTRIES LLC	CCTV CAMERA REPAIRS	\$3,041.36	\$3,041.36
186050	12/7/2023	170	99007790	H & E EQUIPMENT SERVICES INC	EQUIPMENT RENTAL 11/01/2023 - 11/28/2023	\$2,956.30	\$2,956.30
186029	12/7/2023	121	33458	BAYSCAPE LANDSCAPE MANAGEMENT	LANDSCAPE MAINTENANCE SERVICES - NOV 2023	\$2,925.00	\$2,925.00
186063	12/7/2023	132	211348	MEYERS NAVE	FIRST AMENDMENT AUDIT TRAINING	\$2,914.00	\$2,914.00
186051	12/7/2023	170	3T4355	HARRINGTON INDUSTRIAL PLASTICS	APS WET WELL DRAIN PIPE PROJECT PARTS	\$2,912.59	\$2,912.59
186034	12/7/2023	150	311395	BURKE, WILLIAMS & SORENSON LLP	CLAIMS - OCT 2023	\$2,903.96	\$2,903.96

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186103	12/14/2023		9894072884	GRAINGER INC	ASTD PARTS & MATERIALS	\$626.25	\$2,883.48
	12/14/2023	170	9897414943		ASTD PARTS & MATERIALS	\$181.54	
	12/14/2023		9897414950		ASTD PARTS & MATERIALS	\$101.01	
	12/14/2023	111	9898013827		ASTD PARTS & MATERIALS	\$601.67	
	12/14/2023	170	9899023114		ASTD PARTS & MATERIALS	\$52.98	
	12/14/2023		9900632028		ASTD PARTS & MATERIALS	\$1,152.48	
	12/14/2023		9901103300		ASTD PARTS & MATERIALS	\$167.55	
186082	12/7/2023		9949805451	VERIZON WIRELESS	WIRELESS SERV 10/21/23-11/20/23	\$2,795.97	\$2,795.97
186160	12/21/2023		20231125	DALE HARDWARE INC	11/23 - ASTD PARTS & MATERIALS	\$2,763.31	\$2,763.31
186065	12/7/2023	170	144686	NEW IMAGE LANDSCAPING CO	LANDSCAPE MAINTENANCE - FMC - NOV	\$2,645.04	\$2,645.04
186020	12/7/2023		20231130	AFLAC GROUP	GROUP INSURANCE - NOV 2023	\$2,627.48	\$2,627.48
186048	12/7/2023		10521	GOLDSILVER ISLAND HOMES, LLC	REFUND # 60730	\$2,500.00	\$2,500.00
186109	12/14/2023		48293	MILMONT OWNER LLC	REFUND # 60748	\$2,500.00	\$2,500.00
186178	12/21/2023		48356	LENNAR HOMES - BAY AREA	REFUND # 60768	\$2,500.00	\$2,500.00
186173	12/21/2023	141	HYZG481	IRON MOUNTAIN	OFF-SITE STORAGE AND SERVICE - DEC 23	\$763.00	\$2,447.21
	12/21/2023	141	HZSM285		OFF-SITE STORAGE AND SERVICE - DEC 23	\$1,684.21	

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186049	12/7/2023	171	9882295992	GRAINGER INC	ASTD PARTS & MATERIALS	\$607.60	\$2,441.00
	12/7/2023	170	9885391327		ASTD PARTS & MATERIALS	\$309.67	
	12/7/2023		9888380798		ASTD PARTS & MATERIALS	\$1,121.67	
	12/7/2023	171	9889567294		ASTD PARTS & MATERIALS	\$108.51	
	12/7/2023		9889820537		ASTD PARTS & MATERIALS	\$87.36	
	12/7/2023	170	9891104763		ASTD PARTS & MATERIALS	\$138.45	
	12/7/2023	122	9892392136		ASTD PARTS & MATERIALS	\$5.38	
	12/7/2023	170	9892392144		ASTD PARTS & MATERIALS	\$26.79	
	12/7/2023	170	9892525743		ASTD PARTS & MATERIALS	\$35.57	
186136	12/21/2023	110	T161944	BAY AREA AIR QUALITY MGMT DIST	ANNUAL PERMIT RENEWAL - SITE A2884	\$1,003.00	\$2,311.00
	12/21/2023	110	T161946		ANNUAL PERMIT RENEWAL - SITE A2885	\$1,308.00	
186033	12/7/2023	143	137791094001	BUCKLES SMITH ELECTRIC	PLC REPLACEMENT	\$9,642.59	\$2,278.47
	12/7/2023	143	332048600		PLC REPLACEMENT - CREDIT FOR STEP FORWARD PROGRAM	\$-2,038.94	
	12/7/2023	143	332735300		PLC REPLACEMENT	\$197.91	
	12/7/2023	143	332736500		PLC REPLACEMENT - CREDIT FOR STEP FORWARD PROGRAM	\$-5,523.09	
186133	12/21/2023	120	17934	AMERICAN DISCOUNT SECURITY	11/01/23 -11/30/23 GUARD AT DISTRICT	\$1,971.00	\$1,971.00
186182	12/21/2023	123	41161936	MARTIN MARIETTA MATERIALS INC	12.11 TONS 1/2 MAX HMA TYPE A-R	\$1,172.59	\$1,946.16
	12/21/2023	123	41176030		7.95 TONS 1/2 MAX HMA TYPE A-R	\$773.57	
186102	12/14/2023	143	330681	CITY OF FREMONT	PERMIT: IRVINGTON BASIN RCP REHABILITATION	\$1,896.59	\$1,896.59

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186089	12/14/2023		5180276242	ARAMARK	UNIFORM LAUNDERING & RUGS	\$907.01	\$1,894.15
	12/14/2023		5180276243		UNIFORM LAUNDERING SERVICE	\$893.15	
	12/14/2023	122	5180276244		ASTD DUST MOPS, WET MOPS & TERRY	\$93.99	
186146	12/21/2023	170	138048811001	BUCKLES SMITH ELECTRIC	2 - ALLEN BRADLEY POWERFLEX 525 VFD	\$1,875.76	\$1,875.76
186031	12/7/2023	111	18449640	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$139.08	\$1,871.93
	12/7/2023	110	18459520		27 - 2024 LOG BOOKS FOR TPO	\$1,732.85	
186137	12/21/2023		29066	BAY CITY BOILER & ENGINEERING	2 AIR FILTER KITS	\$1,852.49	\$1,852.49
186203	12/21/2023	113	2023090	QUALITY ASSURANCE SOLUTIONS	LABORATORY CONSULTING SERVICES	\$1,802.50	\$1,802.50
186107	12/14/2023	113	2311681	MCCAMPBELL ANALYTICAL	LAB SAMPLE ANALYSIS	\$801.50	\$1,774.50
	12/14/2023	113	2311999		LAB SAMPLE ANALYSIS	\$306.00	
	12/14/2023	113	2311A01		LAB SAMPLE ANALYSIS	\$19.00	
	12/14/2023	113	2311A74		LAB SAMPLE ANALYSIS	\$648.00	
186189	12/21/2023	170	2499857	MOBILE MODULAR MANAGEMENT CORP	FMC TRAILER RENTAL - DEC 2023	\$1,635.19	\$1,635.19
186024	12/7/2023		5180274089	ARAMARK	UNIFORM LAUNDERING & RUGS	\$862.77	\$1,631.92
	12/7/2023		5180274090		UNIFORM LAUNDERING SERVICE	\$769.15	
186192	12/21/2023		16549	MUNICIPAL MAINT EQUIPMENT INC	VACTOR PARTS	\$1,534.20	\$1,534.20
186191	12/21/2023	170	963632513	MSA SAFETY SALES	1 SENSOR	\$1,507.06	\$1,507.06

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186215	12/21/2023		440821507	TERMINIX COMMERCIAL	PEST CONTROL	\$182.00	\$1,506.00
	12/21/2023		440823681		PEST CONTROL	\$148.00	
	12/21/2023		440823682		PEST CONTROL	\$1,176.00	
186072	12/7/2023	170	106323	PRIME MECHANICAL SERVICE INC	SERVICE CALL: BLDG 79 - REPLACE INDOOR & OUTDOOR MOTOR	\$485.00	\$1,477.00
	12/7/2023	170	106349		MONTHLY MAINTENANCE - OCT 23	\$992.00	
186150	12/21/2023	113	714316	CALTEST ANALYTICAL LABORATORY	16 LAB SAMPLE ANALYSIS	\$1,467.90	\$1,467.90
186027	12/7/2023	143	T161781	BAY AREA AIR QUALITY MGMT DIST	PERMIT FEE: PUMP STATIONS CHEMICAL SYSTEM IMPROVEMENTS	\$1,422.00	\$1,422.00
186041	12/7/2023	170	162361	CUMMINS INC	REPAIR: NPS GENERATOR PRE LUBE PUMP	\$1,293.64	\$1,293.64
186157	12/21/2023	170	20231201	COMMUNICATION & CONTROL INC	UTILITY FEE/ANTENNA RENTAL	\$1,227.30	\$1,227.30
186179	12/21/2023	173	30533MSA	LOOKINGPOINT INC	LOOKINGPOINT NEXT CARE RENEWAL	\$1,225.00	\$1,225.00
186151	12/21/2023	173	6006254836	CANON SOLUTIONS AMERICA INC	MTHLY MAINTENANCE BASED ON USE	\$693.34	\$1,206.19
	12/21/2023	173	6006255836		MTHLY MAINTENANCE BASED ON USE	\$417.75	
	12/21/2023	173	6006277898		MTHLY MAINTENANCE BASED ON USE	\$95.10	
186213	12/21/2023	170	364114	TECHNICAL SAFETY SERVICES LLC	FUME HOOD ANNUAL CALIBRATIONS 2023	\$1,171.73	\$1,171.73
186185	12/21/2023	113	2311D68	MCCAMPBELL ANALYTICAL	LAB SAMPLE ANALYSIS	\$298.00	\$1,134.50
	12/21/2023	113	2311D69		LAB SAMPLE ANALYSIS	\$84.00	
	12/21/2023	113	2311D70		LAB SAMPLE ANALYSIS	\$145.50	
	12/21/2023	113	2311J58		LAB SAMPLE ANALYSIS	\$332.00	
	12/21/2023	113	2312052		LAB SAMPLE ANALYSIS	\$275.00	

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186061	12/7/2023	170	17641347	MCMASTER SUPPLY INC	ASTD PARTS & MATERIALS	\$121.89	\$1,128.71
	12/7/2023		18084669		ASTD PARTS & MATERIALS	\$430.66	
	12/7/2023	170	18239060		ASTD PARTS & MATERIALS	\$205.73	
	12/7/2023	170	18241454		ASTD PARTS & MATERIALS	\$174.17	
	12/7/2023	122	18335496		ASTD PARTS & MATERIALS	\$121.46	
	12/7/2023	170	18335561		ASTD PARTS & MATERIALS	\$74.80	
186216	12/21/2023	122	157479	TRI-SIGNAL INTEGRATION INC	FIRE PROTECTION SERVICE - QUARTERLY SPRINKLER SYSTEM INSP	\$312.50	\$1,062.50
	12/21/2023	122	157480		FIRE PROTECTION SERVICE - SEMI ANNUAL WATERFLOW & TAMPER T	\$750.00	
186112	12/14/2023	170	109061760	PACE SUPPLY CORP	1 BELIMO PROGRAMMING TOOL	\$1,041.59	\$1,041.59
186222	12/21/2023	170	914741	VINCENT ELECTRIC MOTOR CO	COGEN 1 GENERATOR TROUBLESHOOTING	\$1,034.00	\$1,034.00
186124	12/14/2023		9949805450	VERIZON WIRELESS	WIRELESS SERV 10/21/23-11/20/23	\$1,006.30	\$1,006.30
186086	12/14/2023	170	4047286120231204	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 12/01/23 - PASEO PADRE	\$61.30	\$982.94
	12/14/2023	110	4071038120231122		SERV TO: 11/21/23-BENSON ROAD	\$144.09	
	12/14/2023	120	4112871220231201		SERV TO: 11/30/23-MTR HYD B18105181	\$777.55	
186180	12/21/2023	144	20231215	MICHAEL LOTHIAN	EXP REIMB: CWEA CONF - REGISTRATION/AIRFARE	\$952.80	\$952.80
186135	12/21/2023	173	604937	AVERTIUM LLC	VULNERABILITY SCANNER	\$911.00	\$911.00
186129	12/21/2023	143	22357546	ABC IMAGING, INC	FY 23 CAST IRON/PIPING LINING - PHASE IX	\$901.44	\$901.44
186228	12/21/2023	122	2880456001	WHCI PLUMBING SUPPLY CO	ASTD PARTS & MATERIALS	\$683.77	\$900.56
	12/21/2023	122	2882092001		ASTD PARTS & MATERIALS	\$216.79	

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186142	12/21/2023	120	18478850	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$249.19	\$886.31
	12/21/2023	130	18492570		ASTD OFFICE SUPPLIES	\$73.08	
	12/21/2023	120	18503400		ASTD OFFICE SUPPLIES	\$294.40	
	12/21/2023	120	18503520		ASTD OFFICE SUPPLIES	\$269.64	
186026	12/7/2023		2827714806	AT&T	SERV: 11/11/23 - 12/10/23	\$872.58	\$872.58
186060	12/7/2023	150	20231204	REGINA MCEVOY	EXP REIMB: CSDA CONFERENCE HOTEL	\$866.77	\$866.77
186208	12/21/2023	170	418167	ROCHESTER MIDLAND CORPORATION	HOT WATER LOOP SERVICE	\$825.28	\$825.28
186217	12/21/2023		6244	TRUGRIT TRACTION INC	CAMERA PARTS	\$800.80	\$800.80
186188	12/21/2023	170	231249	METROMOBILE COMMUNICATIONS INC	RADIO SERVICE - DEC 2023	\$772.91	\$772.91
186038	12/7/2023	170	216893	CHARGEPOINT INC	CPCLD - COMMERCIAL-REN	\$690.00	\$690.00
186095	12/14/2023	132	283496	CLAREMONT BEHAVIORAL SERVICES	DEC 2023 EAP PREMIUMS	\$671.60	\$671.60
186204	12/21/2023		74043	R.D. KINCAIDE INC	1 PATCH KIT	\$631.28	\$631.28
186028	12/7/2023	143	T161778	BAY AREA AIR QUALITY MGMT DIST	PERMIT FEE: PUMP STATIONS CHEMICAL SYSTEM IMPROVEMENTS	\$630.00	\$630.00
186092	12/14/2023	114	18428381	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$196.61	\$610.92
	12/14/2023	110	18467320		ASTD OFFICE SUPPLIES	\$319.06	
	12/14/2023	110	18467321		ASTD OFFICE SUPPLIES	\$95.25	
186134	12/21/2023		5180281666	ARAMARK	UNIFORM LAUNDERING SERVICE	\$513.21	\$607.20
	12/21/2023	122	5180281667		ASTD DUST MOPS, WET MOPS & TERRY	\$93.99	



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186125	12/14/2023		8814294744	VWR INTERNATIONAL LLC	LAB SUPPLIES	\$402.82	\$589.21
	12/14/2023		8814309691		LAB SUPPLIES	\$123.26	
	12/14/2023		8814309692		LAB SUPPLIES	\$63.13	
186054	12/7/2023		605305864	HILLYARD/SAN FRANCISCO	ASTD JANITORIAL SUPPLIES	\$573.86	\$573.86
186165	12/21/2023		252665	FRANK A OLSEN COMPANY	2 EXPANSION JOINTS	\$572.58	\$572.58
186183	12/21/2023	143	8072	MAXWELL KLEIN CONSULTING INC	ECMS PROGRAM UPDATE	\$562.50	\$562.50
186169	12/21/2023	132	41960	ICE SAFETY SOLUTIONS INC	FIRST AID KIT & AED SERVICING	\$217.50	\$544.39
	12/21/2023	132	41961		FIRST AID & AED SUPPLIES	\$326.89	
186069	12/7/2023		43061	VINAY PANCHAL	REFUND # 60731	\$500.00	\$500.00
186073	12/7/2023		49491	ROOTER HERO	REFUND # 60727	\$500.00	\$500.00
186084	12/7/2023		49481	WILLIAM WALITSCH	REFUND # 60735	\$500.00	\$500.00
186110	12/14/2023		49486	MONARCH PLUMBING & ROOTER INC	REFUND # 60757	\$500.00	\$500.00
186139	12/21/2023		47281	BETTER ROOTER	REFUND # 60778	\$500.00	\$500.00
186140	12/21/2023		49495	BEYOND PLUMBING	REFUND # 60771	\$500.00	\$500.00
186195	12/21/2023		49515	NEXGEN ROOTER & PLUMBING	REFUND # 60782	\$500.00	\$500.00
186205	12/21/2023		46216	RAJ CONSTRUCTION INC	REFUND # 60769	\$500.00	\$500.00
186209	12/21/2023		49415	ROOTER HERO	REFUND # 60783	\$500.00	\$500.00
186210	12/21/2023		48344	ROTO-ROOTER SERVICES	REFUND # 60786	\$500.00	\$500.00
186212	12/21/2023		48329	STREAMLINE PLUMBING & DRAIN	REFUND # 60781	\$500.00	\$500.00

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186218	12/21/2023		38972	JIUNNYI TSAI	REFUND # 60777	\$500.00	\$500.00
186227	12/21/2023	121	52550	WECO INDUSTRIES LLC	SMALL TRUCK/CAMERA REPAIRS & PARTS	\$496.69	\$496.69
186132	12/21/2023	130	13PGP3N71X67	AMAZON.COM LLC	ASTD OFFICE SUPPLIES	\$44.26	\$495.76
	12/21/2023	111	1JRMGM9KGXT		ASTD OFFICE SUPPLIES	\$61.46	
	12/21/2023	150	1NFXRTK77TDL		ASTD OFFICE SUPPLIES	\$89.25	
	12/21/2023	150	1NVNG1G7CWCK		CREDIT: ASTD OFFICE SUPPLIES	\$-7.60	
	12/21/2023	144	1XCTL7DPH3WM		ASTD OFFICE SUPPLIES	\$114.07	
	12/21/2023	132	1XW1YPTJ76CN		ASTD OFFICE SUPPLIES	\$173.29	
	12/21/2023	170	1Y4J6JQNR3WC		ASTD OFFICE SUPPLIES	\$21.03	
186156	12/21/2023		1655679	COGENT SOLUTIONS & SUPPLIES	ASTD OFFICE SUPPLIES	\$492.43	\$492.43
186197	12/21/2023	170	109118837	PACE SUPPLY CORP	1 BELIMO WEATHERSHIELD	\$479.12	\$479.12
186040	12/7/2023	123	60416630001	CRESCO EQUIP RENTALS & AFFIL	EQUIP RENTAL: 12" CAPACITY BRUSH CHIPPER	\$456.32	\$456.32
186036	12/7/2023	173	53868	CDW GOVERNMENT LLC	CO-TERM BLUEBEAM	\$445.00	\$445.00
186138	12/21/2023	143	112394	BEECHER ENGINEERING	SWITCHBOARD NO 3 & MCC NO 25 REPLACEMENT	\$210.00	\$410.00
	12/21/2023	143	112396		CHERRY ST. PS	\$200.00	
186047	12/7/2023	173	20231205	MICHAEL GILL	EXP REIMB: FIBER OPTIC CABLE	\$388.68	\$388.68
186098	12/14/2023	123	60445970001	CRESCO EQUIP RENTALS & AFFIL	EQUIP RENTAL: 12" CAPACITY BRUSH CHIPPER	\$369.64	\$369.64
186075	12/7/2023	111	20231130	SWRCB - STATE WATER RESOURCES	GRADE V OPERATOR CERTIFICATE RENEWAL - SOTH	\$365.00	\$365.00
186190	12/21/2023	170	2401047834	MOTION INDUSTRIES INC	ASTD PARTS & MATERIALS	\$356.60	\$356.60

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186202	12/21/2023		190124	PREFERRED ALLIANCE INC	NOV 2023 SERVICE FEE	\$350.36	\$350.36
186064	12/7/2023	170	2401046503	MOTION INDUSTRIES INC	ASTD PARTS & MATERIALS	\$342.40	\$342.40
186141	12/21/2023	120	18503401	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$199.15	\$322.07
	12/21/2023	120	18503521		ASTD OFFICE SUPPLIES	\$122.92	
186025	12/7/2023	120	20231205	JERRY ARROYO	RETIREMENT GIFT - 21 YEARS OF SERVICE	\$315.00	\$315.00
186158	12/21/2023	173	30695116	CORELOGIC INFORMATION SOLUTION	REALQUEST SWM RENEWAL	\$309.00	\$309.00
186214	12/21/2023	150	20231218	ARIEL TEIXEIRA	EXP REIMB: SUPPLIES FOR SOCIAL CMTE EVENT	\$61.96	\$289.67
	12/21/2023	130	20231219		EXP REIMB: TEAM RECOGNITION LUNCH	\$227.71	
186100	12/14/2023	144	3751976	DAILY JOURNAL CORPORATION	AD: THANKSGIVING FATS OILS AND GREASE	\$265.88	\$265.88
186116	12/14/2023	132	20230925	NASIHA RAHMAN	EXP REIMB: SAFETY SHOES	\$175.00	\$262.98
	12/14/2023		20230927		EXP REIMB: LDP SUPPLIES	\$87.98	
186044	12/7/2023		207199	FITGUARD INC	PREVENTATIVE MAINTENANCE - EXERCISE CLUB EQUIPMENT	\$259.00	\$259.00
186108	12/14/2023	170	17789766	MCMASTER SUPPLY INC	ASTD PARTS & MATERIALS	\$60.20	\$255.63
	12/14/2023	170	18559163		ASTD PARTS & MATERIALS	\$97.63	
	12/14/2023	170	18721428		ASTD PARTS & MATERIALS	\$97.80	
186172	12/21/2023	173	6080372	INTRADO LIFE & SAFETY INC	E911 ANNUAL SUBSCRIPTION	\$250.00	\$250.00
186162	12/21/2023	123	231204281101	DIRECT LINE TELERESPONSE	MONTHLY SERVICE DEC 2023	\$246.16	\$246.16
186030	12/7/2023	143	27275100	BECK'S SHOES	SAFETY SHOES: A. MUJSCE	\$225.00	\$225.00
186042	12/7/2023	111	20231130	CWEA	MEMBERSHIP RENEWAL - SOTH	\$221.00	\$221.00

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186166	12/21/2023	123	27747	FREMONT RECYCLING & TRANSFER	1.98 TON GREEN WASTE	\$214.99	\$214.99
186181	12/21/2023		5776159	MALLORY SAFETY AND SUPPLY LLC	CALIBRATION GAS	\$209.48	\$209.48
186170	12/21/2023	143	20231219	REBECCA INGALLS	EXP REIMB: CIP HOLIDAY LUNCH	\$206.45	\$206.45
186177	12/21/2023	141	20231218	ELIZABETH LEDOAN	EXP REIMB: TEAM RECOGNITION LUNCH	\$204.88	\$204.88
186057	12/7/2023		5767660	MALLORY SAFETY AND SUPPLY LLC	48 PR GLOVES	\$189.66	\$189.66
186220	12/21/2023	150	20231218	THERESA VASQUEZ	EXP REIMB: SOCIAL COMMITTE HOLIDAY EVENT	\$186.06	\$186.06
186154	12/21/2023	171	1904482246	CINTAS CORPORATION	1 PP WINTER JACKET FOR KIM	\$179.51	\$179.51
186131	12/21/2023	170	5299426	ALL INDUSTRIAL ELECTRIC SUPPLY	ASTD PARTS & MATERIALS	\$179.07	\$179.07
186097	12/14/2023	170	934606	CORE & MAIN LP	ASTD PARTS & MATERIALS	\$177.20	\$177.20
186039	12/7/2023	170	909089	CORE & MAIN LP	ASTD PARTS & MATERIALS	\$160.59	\$160.59
186153	12/21/2023	122	336003	CENTERVILLE LOCKSMITH	SERVICE: REPAIR GATE LOCK LATCH RETURN SPRING	\$160.00	\$160.00
186119	12/14/2023	141	20231130	SPOK INC	DEC 2023 PAGER SERVICE	\$157.06	\$157.06
186224	12/21/2023	113	8814713200	VWR INTERNATIONAL LLC	LAB SUPPLIES	\$88.82	\$153.07
	12/21/2023	113	8814717904		LAB SUPPLIES	\$64.25	
186199	12/21/2023	122	20231214	KELLY PEAN	EXP REIMB: SAFETY SHOES	\$149.47	\$149.47
186207	12/21/2023		126004	REMOTE SATELLITE SYSTEMS INT'L	IRIDIUM SVC FEE JAN 2024	\$139.90	\$139.90
186193	12/21/2023	122	244668	NAYLOR STEEL INC	ASTD METAL, STEEL, STAINLESS & ALUMINUM	\$136.61	\$136.61
186200	12/21/2023	122	371193	PETERSON TRUCKS INC	1 TUBE OIL FILLER	\$124.54	\$124.54
186085	12/7/2023	150	5623	ZELAYA DESIGNS	GRAPHIC DESIGN SVCS FOR PUBLIC OUTREACH	\$120.00	\$120.00

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186120	12/14/2023	150	441798	ULTRAEX LLC	COURIER SVCS: 1 BOARDMEMBER DELIVERY - 10/18/23	\$56.30	\$112.60
	12/14/2023	150	442018		COURIER SVCS: 1 BOARDMEMBER DELIVERY - 11/08/23	\$56.30	
186035	12/7/2023	173	6005984757	CANON SOLUTIONS AMERICA INC	MTHLY MAINTENANCE BASED ON USE	\$92.05	\$92.05
186037	12/7/2023	141	20230908	EMILY CHANDLER-PEREZ	EXP REIMB: CST MEETING REFRESHMENTS	\$86.41	\$86.41
186121	12/14/2023	136	98XW53463	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 11/18/23	\$83.56	\$83.56
186080	12/7/2023	136	98XW53453	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 11/11/23	\$78.87	\$78.87
186032	12/7/2023	120	18461730	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$74.45	\$74.45
186118	12/14/2023	172	20231208	GERARDO RUIZ	EXP REIMB: MILEAGE FOR CALL OUT	\$68.78	\$68.78
186184	12/21/2023	113	2312051	MCCAMPBELL ANALYTICAL	LAB SAMPLE ANALYSIS	\$68.00	\$68.00
186148	12/21/2023		3867	CAL SANITATION RISK MNGT AUTH	CLAIM: AGRAWAL FILE# 3030430	\$64.80	\$64.80
186130	12/21/2023	170	5713180001	ALAMEDA ELECTRICAL DISTR. INC.	ASTD ELECTRICAL SUPPLIES	\$64.08	\$64.08
186164	12/21/2023	110	20231219	MOHAMMAD FARSAI	EXP REIMB: GROUP RECOGNITION	\$61.40	\$61.40
186201	12/21/2023	150	20231218	LUSINE PETROSYAN	EXP REIMB: SOCIAL COMMITTEE HOLIDAY EVENT	\$60.66	\$60.66
186219	12/21/2023	136	98XW53473	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 11/25/23	\$30.00	\$60.00
	12/21/2023	136	98XW53483		SHIPPING CHARGES W/E 12/02/23	\$30.00	
186094	12/14/2023	136	20231127	MARK CARLSON	EXP REIMB: CSRMA MEETING MILEAGE & PARKING	\$53.99	\$53.99
186021	12/7/2023	143	20231120	ALAMEDA COUNTY TREASURER	FEE: FY 23 CAST IRON/PIPING LINING - PHASE IX	\$50.00	\$50.00
186087	12/14/2023	122	1VX3HMTYM14W	AMAZON.COM LLC	ASTD OFFICE SUPPLIES	\$49.94	\$49.94
186088	12/14/2023	141	1KJMFPGXR73N	AMAZON.COM LLC	ASTD OFFICE SUPPLIES	\$44.29	\$44.29

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186196	12/21/2023	170	20231219	STEVEN NOEGEL	EXP REIMB: GAS FOR FMC WATER TRUCK	\$30.00	\$30.00
186062	12/7/2023	114	20231201	JOHN MERRIAM	EXP REIMB: MILEAGE FOR CWEA CAREER FAIR	\$23.84	\$23.84
186114	12/14/2023	122	370547	PETERSON TRUCKS INC	1 SEAL OIL DIPSTICK TUBE / 1 TUBE OIL LEVEL GAUGE	\$108.11	\$21.58
	12/14/2023	122	CM370547		CREDIT INV: 370547 - TUBE OIL LEVEL GAUGE	\$-86.53	
186221	12/21/2023		9950573265	VERIZON WIRELESS	WIRELESS SERV 11/02/23-12/01/23	\$21.06	\$21.06
186194	12/21/2023	122	244445	NAYLOR STEEL INC	ASTD METAL, STEEL, STAINLESS & ALUMINUM	\$9.03	\$9.03
186211	12/21/2023		2171772003	SAN LEANDRO ELECTRIC SUPPLY	ASTD ELECTRICAL SUPPLIES	\$6.05	\$6.05
186023	12/7/2023	120	14VH77QM39LV	AMAZON.COM LLC	ASTD OFFICE SUPPLIES	\$21.02	\$4.88
	12/7/2023	170	1FNQGC3CCJM7		ASTD OFFICE SUPPLIES	\$38.06	
	12/7/2023	170	1LVCTWTYNW37		CREDIT: ASTD OFFICE SUPPLIES	\$-157.74	
	12/7/2023	170	1RQGWJF43363		ASTD OFFICE SUPPLIES	\$34.31	
	12/7/2023	122	1WMDDL6M11VY		ASTD OFFICE SUPPLIES	\$69.23	
186155	12/21/2023		3037	CITY & COUNTY OF SAN FRANCISCO	REFUND - OVERPAYMENT	\$2.00	\$2.00

**Invoices:**

<b>Credit Memos :</b>	<b>5</b>	<b>-7,813.90</b>
<b>\$0 - \$1,000 :</b>	<b>223</b>	<b>69,685.94</b>
<b>\$1,000 - \$10,000 :</b>	<b>78</b>	<b>269,377.76</b>
<b>\$10,000 - \$100,000 :</b>	<b>47</b>	<b>913,639.17</b>
<b>Over \$100,000 :</b>	<b>13</b>	<b>7,902,749.25</b>
<b>Total:</b>	<b>366</b>	<b>9,147,638.22</b>

**Checks:**

<b>\$0 - \$1,000 :</b>	<b>102</b>	<b>35,367.18</b>
<b>\$1,000 - \$10,000 :</b>	<b>74</b>	<b>252,666.10</b>
<b>\$10,000 - \$100,000 :</b>	<b>23</b>	<b>612,474.90</b>
<b>Over \$100,000 :</b>	<b>14</b>	<b>8,247,130.04</b>
<b>Total:</b>	<b>213</b>	<b>9,147,638.22</b>

# The Mercury News

## California OKs rules for turning wastewater into tapwater

“Water is so precious in California. It is important that we use it more than once.”



The San Jose-Santa Clara Regional wastewater facility is seen, Wednesday, Dec. 13, 2023, in San Jose, Calif. Sewage water is treated at the site before it is discharged into San Francisco Bay. California regulators are preparing to vote on new rules for turning recycled wastewater into drinking water. (AP Photo/Terry Chea)

By [ASSOCIATED PRESS](#) | [ap@dfmdev.com](mailto:ap@dfmdev.com)

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**By Adam Beam | Associated Press**

SACRAMENTO — When a toilet is flushed in California, the water can end up in a lot of places: An ice-skating rink in Ontario, ski slopes around Lake Tahoe, farmland in the Central Valley.

And — coming soon — kitchen faucets.

California regulators on Tuesday approved new rules to let water agencies recycle wastewater and put it right back into the pipes that carry drinking water to homes, schools and businesses.

It's a big step for a state that has struggled for decades to have a reliable source of drinking water for its more than 39 million residents. And it signals a shift in public opinion on a subject that as recently as two decades ago prompted backlash that scuttled similar projects.

Since then, California has been through multiple extreme droughts, including the most recent one that scientists say was the driest three-year period on record and left the state's reservoirs at dangerously low levels.

"Water is so precious in California. It is important that we use it more than once," said Jennifer West, managing director of WateReuse California, a group advocating for recycled water.

California has been using recycled wastewater for decades. The Ontario Reign minor league hockey team has used it to make ice for its rink in Southern California. Soda Springs Ski Resort near Lake Tahoe has used it to make snow. And farmers in the Central Valley, where much of the nation's vegetables, fruits and nuts are grown, use it to water their crops.

But it hasn't been used directly for drinking water. Orange County operates a large water purification system that recycles wastewater and then uses it to refill underground aquifers. The water mingles with the groundwater for months before being pumped up and used for drinking water again.

California's new rules would let — but not require — water agencies to take wastewater, treat it, and then put it right back into the drinking water system. California would be just the second state to allow this, following Colorado.

The new rules require the wastewater be treated for all pathogens and viruses, even if the pathogens and viruses aren't in the wastewater. That's different from regular water treatment rules, which only require treatment for known pathogens, said Darrin Polhemus, deputy director of the division of drinking water for the California Water Resources Control Board.

In fact, the treatment is so stringent it removes all of the minerals that make fresh drinking water taste good — meaning they have to be added back at the end of the process.

"It's at the same drinking water quality, and probably better in many instances," Polhemus said.

It's expensive and time consuming to build these treatment facilities, so Polhemus said it will only be an option for bigger, well-funded cities — at least initially. That



includes San Diego, where city officials have a plan to build a water recycling program that they say would account for nearly half of the city's water by 2035.

Water agencies will need public support to complete these projects. The rules require water agencies to tell customers about the recycled water before they start doing it.

In San Jose, local officials have opened the Silicon Valley Advanced Water Purification Center for public tours "so that people can see that this is a very high tech process that ensures the water is super clean," said Kirsten Struve, assistant officer for the water supply division at the Santa Clara Valley Water District.

Right now, the agency uses the water for things like irrigating parks and playing fields. But they plan to use it for drinking water in the future.

"We live in California where the drought happens all the time. And with climate change, it will only get worse," Struve said. "And this is a drought resistant supply that we will need in the future to meet the demands of our communities."

*Associated Press video journalist Terry Chea contributed reporting from San Jose, California.*