

Directors

Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy



Officers

Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

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

**Tuesday, May 28, 2024
Special Meeting - 4:00 PM**

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

- 1. Call to Order

- 2. Salute to the Flag

- 3. Roll Call

- Motion 4. Approve Minutes of the Union Sanitary District Board Meeting of May 13, 2024

- Information 5. April 2024 Monthly Operations Report *(to be reviewed by the Budget & Finance and Legal/Community Affairs Committees)*

- 6. Written Communications

- 7. Public Comment
Public Comment is limited to three minutes per individual, with a maximum of 30 minutes per subject. If the comment relates to an agenda item, the speaker should address the Board at the time the item is considered. Speaker cards will be available in the Boardroom and are requested to be completed prior to the start of the meeting.

- Motion 8. Authorize the General Manager to Execute an Agreement with ACWD and Pay Fees for the Water Main Relocation and Replacement for the Enhanced Treatment and Site Upgrade Phase 1A Campus Building Project *(to be reviewed by the Engineering and Information Technology Committee)*

- Motion 9. Authorize the General Manager to Execute Two Contract Change Orders with Zovich Regarding Construction of the New ACWD Water Main for the Enhanced Treatment and Site Upgrade Program Phase 1A Campus Building Project *(to be reviewed by the Engineering and Information Technology Committee)*

- Motion 10. Consider and Approve a Resolution Approving and Authorizing Execution of Two Real Property Purchase Contracts to Acquire a Fee Parcel and Two Temporary Construction Easements from Alameda County Flood Control & Water Conservation District *(to be reviewed by the Budget & Finance Committee)*

- Direction 11. Proposed Operating and CIP Budget for Fiscal Year 2025 *(to be reviewed by the Budget & Finance Committee)*

-
- Information 12. Report on the East Bay Dischargers Authority Meeting of April 18, 2024
-
- Information 13. Check Register
-
- Information 14. Committee Meeting Reports (*No Board action is taken at Committee meetings*)
- a. Budget & Finance Committee – Thursday, May 23, 2024, at 1:30 p.m.
 - Director Kite and Director Toy
 - b. Engineering and Information Technology Committee – Friday, May 24, 2024, at 10:00 a.m.
 - Director Fernandez and Director Toy
 - c. Legal/Community Affairs Committee – Friday, May 24, 2024, at 4:00 p.m.
 - Director Kite and Director Lathi
-
- Information 15. General Manager’s Report (*Information on recent issues of interest to the Board*)
-
16. 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
-
17. Adjournment – The Board will adjourn to the Special Board Meeting to be held in the Boardroom on Wednesday, May 29, 2024, at 4:00 p.m.
-
18. Adjournment – The Board will then adjourn to the next Regular Board Meeting to be held in the Boardroom on Monday, June 10, 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.

**MINUTES OF THE MEETING OF THE
BOARD OF DIRECTORS OF
UNION SANITARY DISTRICT/UNION SANITARY DISTRICT FINANCING
AUTHORITY
May 13, 2024**

CALL TO ORDER

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

SALUTE TO THE FLAG

President Toy led the salute to the flag.

ROLL CALL

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

ABSENT: Tom Handley, Vice President (arrived at 4:20 p.m.)

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
Ric Pipkin, Enhanced Treatment and Site Upgrade Program Manager
Michael Dunning, Environmental Compliance Coach
Trieu Nguyen, IT Administrator
Regina McEvoy, Executive Assistant to the General Manager/Board Clerk

VISITORS: Alice Johnson, League of Women Voters

**APPROVE MINUTES OF THE UNION SANITARY DISTRICT BOARD MEETING OF
APRIL 22, 2024**

It was moved by Secretary Kite, seconded by Director Fernandez, to Approve the Minutes of the Board Meeting of April 22, 2024. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy
NOES: None

ABSTAIN: None
ABSENT: Handley

APPROVE MINUTES OF THE UNION SANITARY DISTRICT SPECIAL BOARD MEETING OF APRIL 30, 2024

It was moved by Director Fernandez, seconded by Director Lathi, to Approve the Minutes of the Special Board Meeting of April 30, 2024. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy
NOES: None
ABSTAIN: None
ABSENT: Handley

WRITTEN COMMUNICATIONS

There were no written communications.

PUBLIC COMMENT

There was no public comment.

SELECT BOARDMEMBERS TO REPRESENT UNION SANITARY DISTRICT ON EXTERNAL COMMITTEES FOR FISCAL YEAR 2025

General Manager Eldredge stated Policy No. 3070 calls for the Board to annually select representatives and alternates for the four following External Committees: Alameda County Water District Financing Authority (ACWDFFA), East Bay Dischargers Authority Commission (EBDA), Alameda County Special Districts Association (ACSDA), and Southern Alameda County Geographic Information System Joint Powers Authority (SACGISA). Current Board representatives and alternates for external committee assignments were included in the Board meeting packet. Staff recommended the Board select members to serve the Fiscal Year 2025 term as USD representatives to the Alameda County Water District Financing Authority, East Bay Dischargers Authority Commission, Alameda County Chapter of the California Special Districts Association, and the Southern Alameda County Geographic Information System Joint Powers Authority.

It was moved by Director Lathi, seconded by Director Fernandez, to Accept the Following External Committee Assignments for Fiscal Year 2025:

External Committee	Board Representative	1st Alternate	2nd Alternate
ACWDFFA	Manny Fernandez	Jennifer Toy	Anjali Lathi
EBDA	Jennifer Toy	Anjali Lathi	
ACSDA	Pat Kite	Manny Fernandez	
SACGIS	Tom Handley	Anjali Lathi	Jennifer Toy

Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy
NOES: None
ABSTAIN: None
ABSENT: Handley

SCHEDULING PUBLIC HEARING TO CONSIDER COLLECTION OF SEWER SERVICE CHARGES ON THE TAX ROLL FOR FISCAL YEAR 2025

This item was reviewed by the Personnel Committee. Business Services Manager/CFO Carlson stated staff prepared this item for the Board to consider placing sewer service charges for Fiscal Year 2025 on the tax rolls and set the date for the public hearing to consider authorizing collection. After the Board sets the hearing date, staff will prepare the report to be considered at the public hearing and will publish the required Notice included in the Board meeting packet in the Tri-City Voice and The Argus newspapers. Staff recommended the Board set the time for holding the public hearing to consider collection of sewer service charges on the tax roll for Fiscal Year 2025, at 4:00 p.m. or as soon thereafter as the matter may be heard, on June 24, 2024, to be held in the Boardroom at 5072 Benson Road, Union City, California.

It was moved by Director Fernandez, seconded by Secretary Kite, to Set the Time for Holding the Public Hearing to Consider Collection of Sewer Service Charges on the Tax Roll for Fiscal Year 2025, at 4:00 p.m. or as Soon Thereafter as the Matter May be Heard, on June 24, 2024, to be Held in the Boardroom at 5072 Benson Road, Union City, California. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy
NOES: None
ABSTAIN: None
ABSENT: Handley

REVIEW AND CONSIDER APPROVAL OF POLICY NO. 2920 COMPUTER PURCHASE AND STUDENT LOAN PROGRAM

This item was reviewed by the Budget & Finance Committee. Business Services Manager/CFO Carlson stated there were no proposed changes to the policy other than minor administrative updates and clarifications. Staff recommended the Board approve Policy No. 2920, Computer Purchase and Student Loan Program.

It was moved by Director Lathi, seconded by Director Fernandez, to Approve Policy No. 2920, Computer Purchase and Student Loan Program. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy
NOES: None

ABSTAIN: None
ABSENT: Handley

CONSIDER A RESOLUTION TO TERMINATE THE EMERGENCY ACTION TO REPAIR A SINKHOLE ON CUSHING PARKWAY IN THE CITY OF FREMONT

This item was reviewed by the Engineering and Information Technology Committee. Technical Services Manager Chau stated on April 22, 2024, the Board received an update on the emergency action and adopted a motion to confirm and declare the continuance of the emergency action to repair a sinkhole on Cushing Parkway in the City of Fremont. McGuire and Hester completed all remaining punch list/remediation work required by the City of Fremont. Staff recommended the Board receive the final update on the repair of a sinkhole on Cushing Parkway in the City of Fremont and adopt a resolution terminating the emergency.

It was moved by Director Fernandez, seconded by Secretary Kite, to Adopt Resolution No. 3012 Terminating the Emergency for Repairing a Sinkhole on Cushing Parkway in the City of Fremont. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy
NOES: None
ABSTAIN: None
ABSENT: Handley

CONSIDER A RESOLUTION TO APPROVE REVISED POLICY NO. 2760, STANDARDIZED EQUIPMENT/MATERIALS POLICY

This item was reviewed by the Engineering and Information Technology Committee. Technical Services Manager Chau stated staff updated the District's Standardized Equipment/Materials policy as part of ongoing efforts to review and update all policies. Proposed changes to the policy were outlined in the Board meeting packet. Staff recommended the Board consider a resolution to approve revised Policy No. 2760, Standardized Equipment/Materials Policy, which among other things, incorporates the Collections Services Standardized Equipment/Materials List, selection criteria, and procedures, and updates the CIP and FMC standardized equipment/materials list.

It was moved by Secretary Kite, seconded by Director Lathi, to Adopt Resolution No. 3013 Approving Revised Policy No. 2760, Standardized Equipment/Materials Policy. Motion carried with the following vote:

AYES: Fernandez, Handley, Kite, Lathi, Toy
NOES: None
ABSTAIN: None
ABSENT: None

AUTHORIZE THE GENERAL MANAGER TO EXECUTE AMENDMENT NO. 1 TO TASK ORDER NO. 3 WITH WOODARD & CURRAN, INC. FOR THE ALVARADO INFLUENT VALVE BOX REHABILITATION

This item was reviewed by the Engineering and Information Technology Committee. Technical Services Manager Chau stated the Board initially awarded the construction contract for the Project in January 2020 with a scheduled completion date in September 2020. Due to the COVID-19 pandemic, the construction contract was terminated by the Board in January 2021. The Project was readvertised for bids and the Board awarded the construction contract to Gateway Pacific Contractors, Inc. on February 12, 2024. The purpose of Amendment No. 1 to Task Order No. 3 will be to authorize additional engineering services required to support the construction contract. Staff recommended the Board authorize the General Manager to execute Amendment No. 1 to Task Order No. 3 with Woodard & Curran, Inc. for the Alvarado Influent Valve Box Rehabilitation Project in the amount of \$78,232.

It was moved by Director Lathi, seconded by Director Fernandez to Authorize the General Manager to Execute Amendment No. 1 to Task Order No. 3 with Woodard & Curran, Inc. for the Alvarado Influent Valve Box Rehabilitation Project in the Amount of \$78,232. Motion carried with the following vote:

AYES: Fernandez, Kite, Lathi, Toy
NOES: None
ABSTAIN: None
ABSENT: Handley

INFORMATION ITEMS:

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

This item was reviewed by the Legal/Community Affairs Committee. Environmental Compliance Coach Dunning stated the District's Environmental Compliance team will recognize industries that have exceeded the requirements of their wastewater discharge permits during the prior calendar year and have demonstrated continued commitment to protecting the environment at the Certificates of Merit event to be held at 3:00 p.m. on Thursday, May 30, 2024, in the Boardroom. The District invited representatives from 23 Significant Industrial Users with Class I Wastewater Discharge Permits to receive Certificates of Merit. A congratulatory notice listing the awardees will be published in the Tri-City Voice and The Argus newspapers the week of May 20, 2024.

Board of Directors Internal Committee Assignments 2024-2025

General Manager Eldredge stated Board Policy No. 3070 states the President of the Board of Directors is responsible for assigning members and alternates for internal committees. Internal committee assignments received from President Toy were included in the Board meeting packet.

Check Register

There were no questions regarding the check register.

COMMITTEE MEETING REPORTS:

The Personnel, Engineering and Information Technology, and Legal/Community Affairs Committees met.

GENERAL MANAGER'S REPORT:

- General Manager Eldredge provided a COVID-19 update.
- General Manager Eldredge provided an update on the latest draft of the 3rd watershed permit. All EBDA agencies submitted a joint letter requesting consideration for early adopters and those doing reclaimed water. The San Francisco Bay Water Board is scheduled to consider the permit at its June 12, 2024, meeting.
- General Manager Eldredge recently provided a District overview presentation to the Newark City Council and will present to the Fremont City Council next week.

OTHER BUSINESS:

There was no other business.

ADJOURNMENT:

The meeting was adjourned at 4:38 p.m. to a Special Board Meeting to be held in the Boardroom Monday, May 20, 2024, at 4:00 p.m.

The Board will then adjourn to a Special Board Meeting to be held in the Boardroom on Tuesday, May 28, 2024, at 4:00 p.m.

SUBMITTED:

ATTEST:

REGINA McEVOY
BOARD CLERK

PAT KITE
SECRETARY

APPROVED:

JENNIFER TOY
PRESIDENT

Adopted this 28th day of May 2024



Union Sanitary District

Monthly Operations Report
April 2024



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2024 MONTHLY OPERATIONS REPORT

The April 2024 Monthly Operations Reports highlights the District's performance in the following areas:

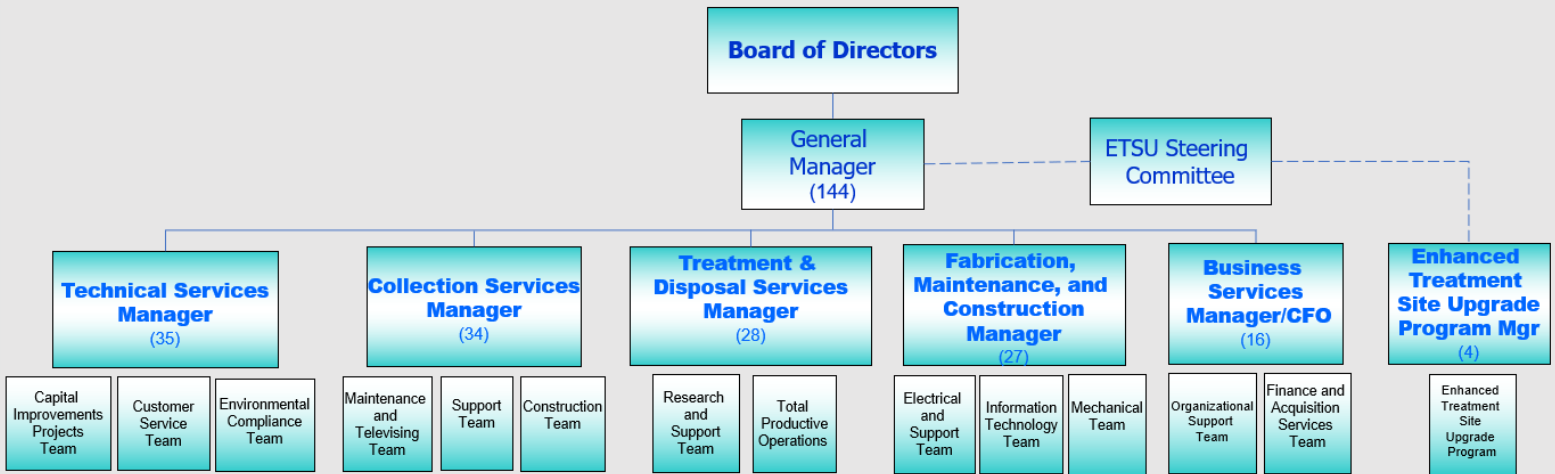
- **Organizational Overview**
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 - Studies and Designs
- **Permitting and Inspections**
- **Staffing and Personnel**



Organizational Overview

2024 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

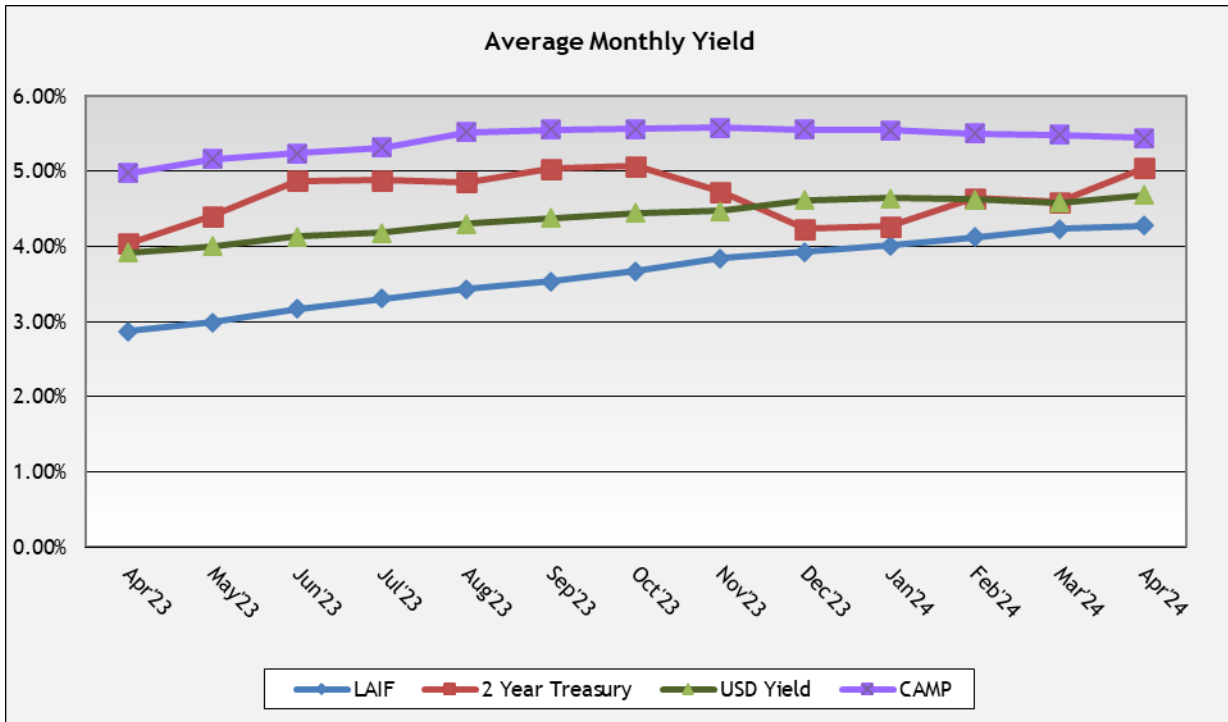
2024 MONTHLY OPERATIONS REPORT

Total Revenues and Expenditures

FY 2024	Year-to-date as of 4/30/2024		83% of year elapsed	Audited Last Year Actuals 6/30/23
Revenues				
	Budget	Actual	% of Budget Rec'd	
Capacity Fees	\$ 8,420,000	\$ 2,255,528	27%	\$ 7,371,192
Sewer Service Charges	84,200,000	80,242,281	95%	77,986,322
Operating (Includes work groups and fund 85)	1,353,500	1,090,525	81%	1,372,027
Interest	3,850,000	7,954,614	207%	5,736,464
Misc. (Annex fees, forfeited deposits)	11,276	15,284	136%	654,626
Subtotal Revenues	\$ 97,834,776	\$ 91,558,233	94%	\$ 93,120,631
SRF Funds Draw Down (Standby Power)	12,296,700	21,223,336	172.6%	-
Total Revenues + Bond Proceeds	\$ 110,131,476	\$ 112,781,569	102%	\$ 93,120,631
Expenses				
	Budget	Actual	% of Budget Used	Audited Last Year Actuals 6/30/23
Capital Improvement Program:				
Capacity Proj.	\$ 13,948,200	\$ 14,695,164	105%	\$ 10,249,515
Renewal & Repl. Proj.	71,055,900	47,133,475	66%	56,652,197
Operating (includes fund 85)	55,246,877	43,298,065	78%	49,798,555
Special Projects	4,154,384	465,803	11%	855,302
Retiree Medical (ADC)	1,475,000	1,333,770	90%	404,259
115 Pension Trust	6,400,000	3,840,000	60%	-
Vehicle & Equipment	187,300	72,135	39%	176,662
Information Systems	1,199,800	693,600	58%	542,449
Plant & Pump Stat. R&R	400,000	217,744	54%	308,301
Emerg. Fund	-	-	0%	-
Cty Fee for SSC Admin.	124,000	113,224	91%	112,512
Debt Servicing:				
SRF Loans	-	-	0%	-
Bonds	9,017,080	9,692,638	107%	8,964,016
WIFIA	17,000	18,100	106%	17,000
Debt Issuance	100,000	-	0%	-
Total Expenses	\$ 163,325,541	\$ 121,573,716	74%	\$ 128,080,768
Total Revenue & Proceeds less Expenses	\$ (53,194,065)	\$ (8,792,147)		(34,960,137)

Investment Portfolio

Performance Measures for the USD Investment Portfolio



	Dec'23	Jan'24	Feb'24	Mar'24	Apr'24
LAIF	3.93%	4.01%	4.12%	4.23%	4.27%
2 Year Treasury	4.23%	4.27%	4.64%	4.59%	5.04%
USD Yield	4.61%	4.64%	4.63%	4.58%	4.68%
CAMP	5.55%	5.54%	5.50%	5.48%	5.44%

LAIF: Local Agency Investment Fund Yield

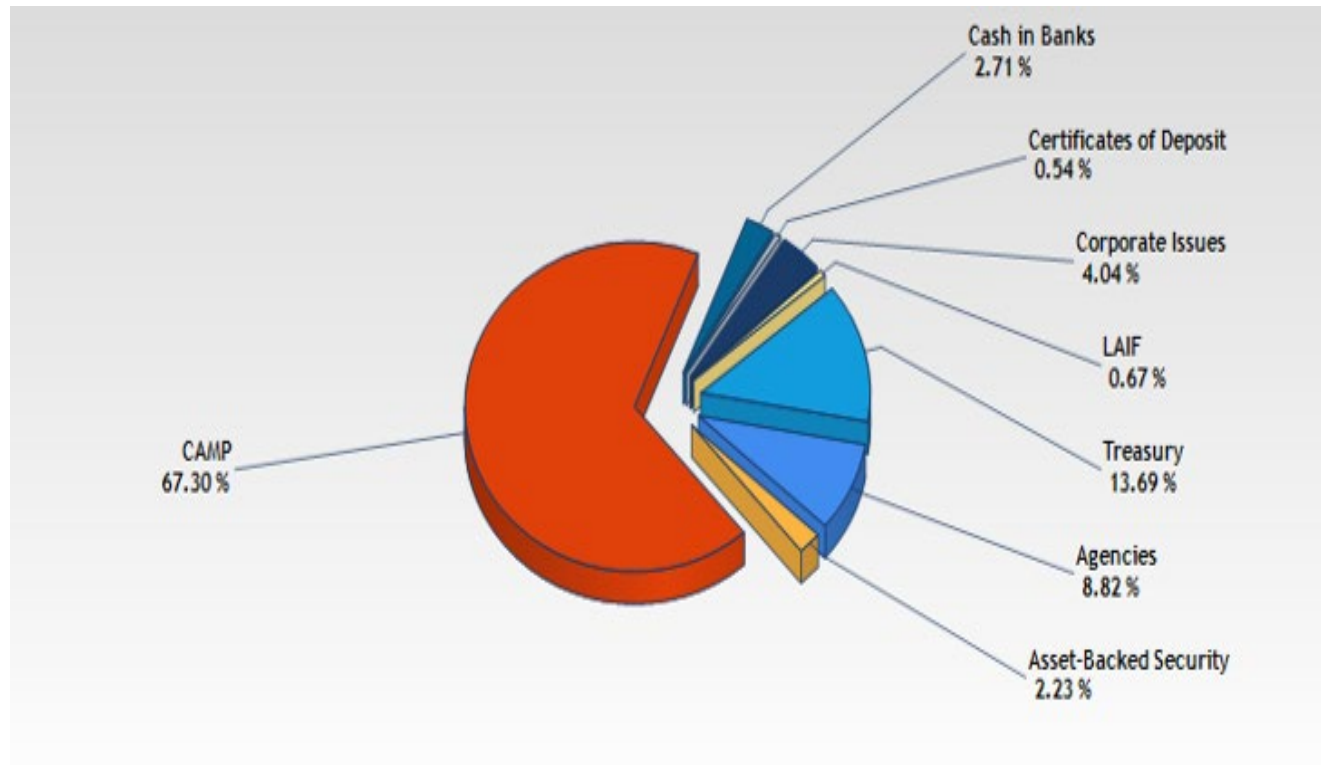
2 Year Treasury: Yield for investing in 2-Year U.S. Treasury security

USD Yield: Summarizes USD portfolio's yield

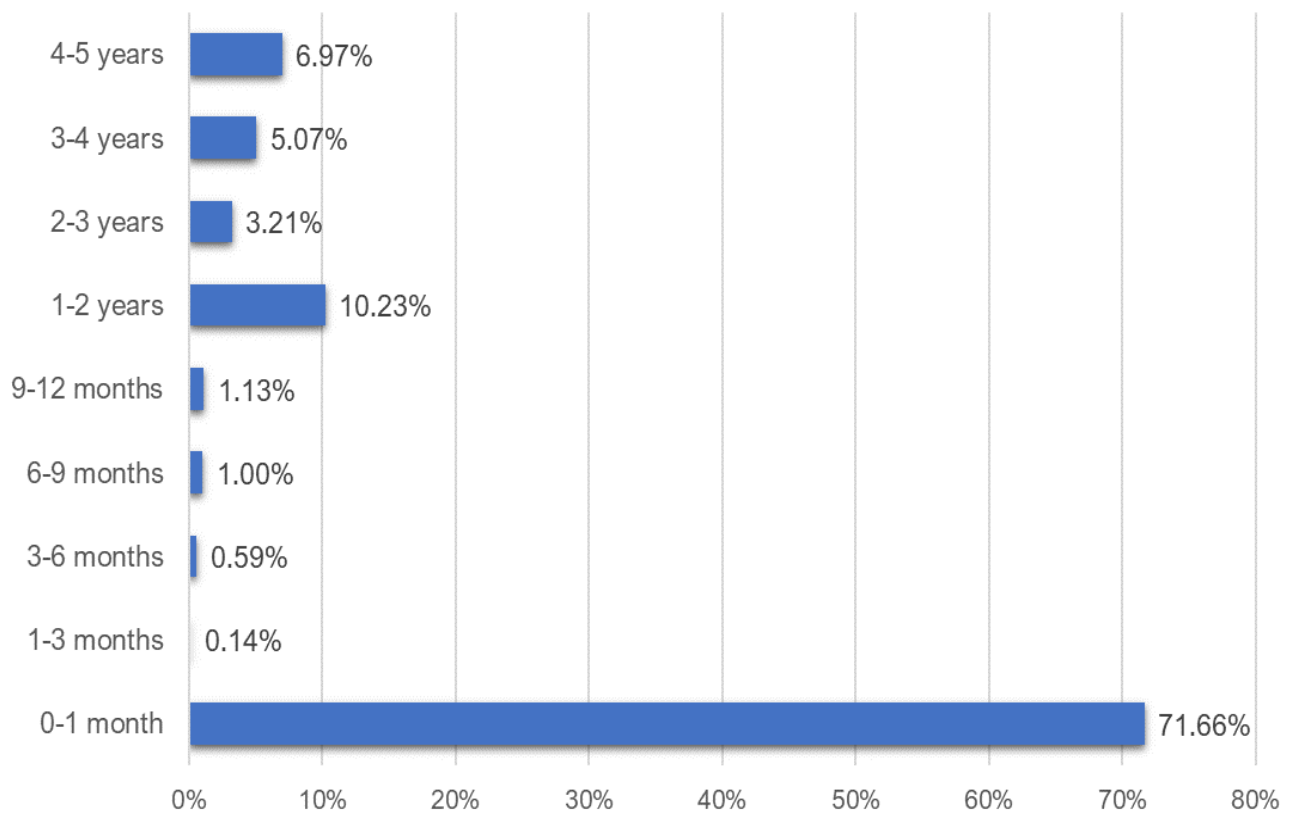
CAMP: California Asset Management Program Yield

Portfolio Holdings by Asset Class and by Maturity Range

Portfolio Holdings Distribution by Asset Class



Portfolio Holdings Distribution by Maturity Range



PARS Post-Employment Benefits Trust

Report for the period of: 04/30/2024

Account Summary:

Source	Balance as of 04/01/2024	Contributions	Earnings	Expenses	Distributions	Transfers	Balance as of 04/30/2024
Pension	\$3,977,475.98	\$853,333.00	\$(125,253.85)	\$(1,916.06)	\$0.00	\$0.00	\$4,703,639.07
Pension- Conserve	\$857,306.41	\$426,667.00	\$(21,554.68)	\$(406.80)	\$0.00	\$0.00	\$1,262,011.93
Pension- Capital App	\$998,641.89	\$0.00	\$(36,298.34)	\$(477.73)	\$0.00	\$0.00	\$961,865.82
Totals	\$5,833,424.28	\$1,280,000.00	\$(183,106.87)	\$(2,800.59)	\$0.00	\$0.00	\$6,927,516.82

Investment Selection

Source	
PENSION	Union Sanitary District
PENSION – CONSERV	Union Sanitary District – Conservative
Pension – Capital App	Union Sanitary District – Cap App

Investment Objective

Source	
PENSION	Individual account based on Moderate – Index. The dual goals of the Moderate Strategy are growth of principal and income. It is expected that dividend and interest income will comprise a significant portion of total return, although growth through capital appreciation is equally important. The portfolio will be allocated between equity and fixed income investments.
PENSION – CONSERV	Individual account based on Conservative – Index. The primary goal of the Conservative Strategy is to provide a consistent level of inflation-protected income over the long-term. The major portion of the assets will be fixed income related. Equity securities are utilized to provide inflation protection.
PENSION – CAPITAL APP	Individual Account based on the Capital Appreciation – Index. The primary goal of the Capital Appreciation objective is growth of principal. The major portion of the assets are invested in equity securities and market fluctuations are expected.

Investment Return:

Annualized Return

Source:	1-Month	3-Months	1-Year	3-Years	5-Years	10-Years	Plan Inception Date
PENSION	-2.91%	0.64%	7.95%				03/23/2022
PENSION – CONSERVE	-2.12%	-1.05%					02/28/2024
PENSION – CAPITAL APP	-3.63%	2.09%	12.05%				03/23/2022

Information is provided by US Bank, Trustee for PARS; Not FDIC Insured; No Bank Guarantee; May Lose Value

Past performance does not guarantee future results. Performance returns may not reflect the deduction of applicable fees, which could reduce returns. Information is deemed reliable but may be subject to change.

Investment Return: Annualized rate of return is the return on an investment over a period other than one year multiplied or divided to give a comparable one-year return.

Account balances are inclusive of Trust Administration, Trustee and Investment Management fees

Union Sanitary District Odor Map and Report

During the recording period between April 1, 2024 through April 30, 2024, there was 1 odor related service request(s) received by the District.

City	Union City		
District Related:	No	Date/Time:	4/1/2024 4:54PM
Location:	Del Monte Ct	Reported by:	Sitaran Ravipati
Weather/Temp:	Sunny/ 69°F	Wind:	North West /8 mph

Response and Follow-up: USD received a report of a foul odor coming from inside the laundry room of a residence.

A trouble call inspector responded to the location. No odors were detected upon arrival and there were no signs of odor causing factors observed in the vicinity of the home. The inspector continued to check the sewer mains and storm drains in the area, no signs of odors or back ups. Everything was flowing normal.

The inspector discussed the findings with the homeowner and provided a brochure for laterals and vents.

Union Sanitary District Odor Map and Report



Legend

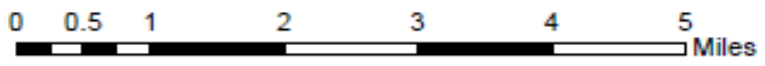
Odor Complaints: April 2024

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

Odor Complaints: May 2023 to Mar. 2024

- ★ Odor found, USD resolved (0)
- Odor found, not related to USD (2)
- ▲ No odor found (10)

Location of Odor Reports May 2023 to April 2024





Customer Service Response

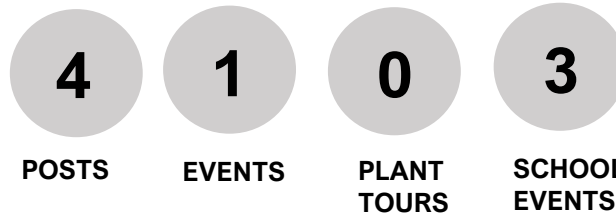
Front Desk Trouble Calls

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

Total Calls	Fremont	Newark	Union City	Total
Apr-24	5	2	4	11
Mar-24	7	1	1	9
Feb-24	12	3	1	16
Jan-24	9	3	0	12
Dec-23	8	0	1	9
Nov-23	7	3	1	11
6 Month Total				68
Apr-23	13	0	2	15

Communication and Outreach

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



Social Media Posts:

- StopFOG info
- Oral Flea meds for pets
- Fremont's Earth Day Celebration
- BACWA 3 P's video

Events:

- City of Fremont Earth Day on 4/20/24

Other Activities:

- None



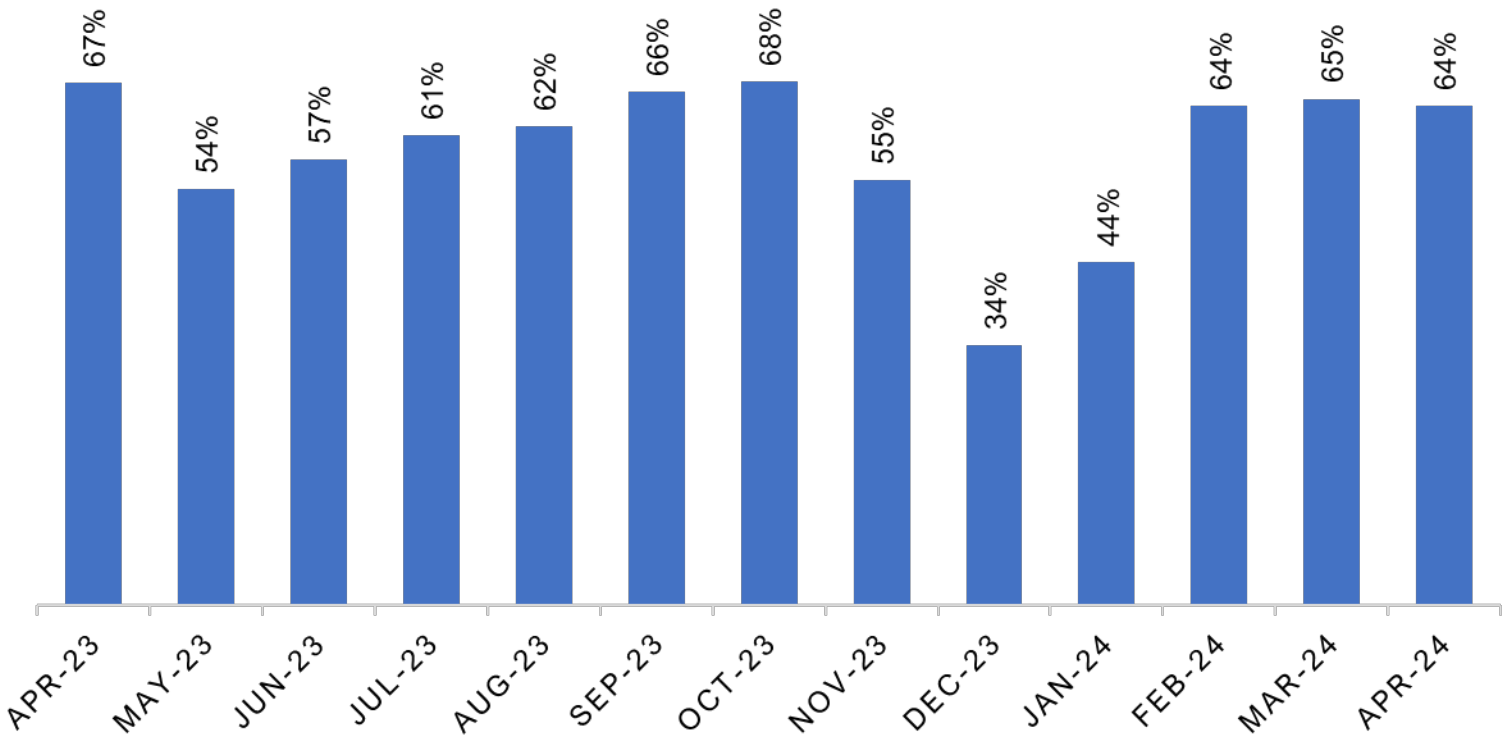
Plant Operations

2024 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



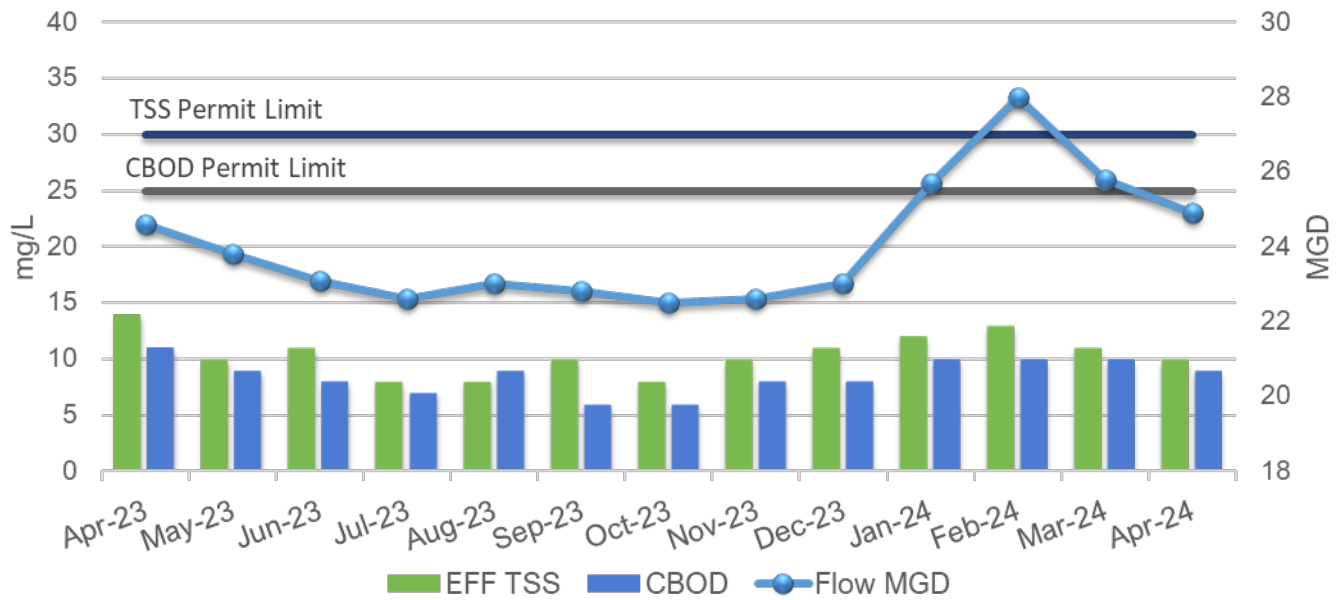
Plant Operations

2024 MONTHLY OPERATIONS REPORT

Lab Monitoring Results

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

Lab Results and Effluent Flow



EFF SS: Effluent Suspended Solids **CBOD:** Carbonaceous Biochemical Oxygen Demand **MGD:** Million Gallons per Day

USD's Final Effluent Monthly Monitoring Results

Parameter	Permit Limit	Feb-24	Mar-24	Apr-24
Copper, µg/l	53	5.1	7.8	3.5
Mercury, µg/l (quarterly)	0.066	0.0031	NA	NA
Cyanide, µg/l	20	ND 1.1	ND 1.1	ND 1.1
Ammonia- N, mg/L (Range)	86	31 - 39	41 - 46	38 - 41
Fecal Coliform, MPN/100ml (Range)				
• 5-Day Geometric Mean	500	28 - 37	22 - 35	18 - 26
• 11-Sample 90th Percentile	1100	56 - 93	93 - 93	37 - 46
Enterococci				
• 6-Week Geometric Mean	280	60	56	34

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



Maintenance Report

2024 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 APRIL 2024

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.

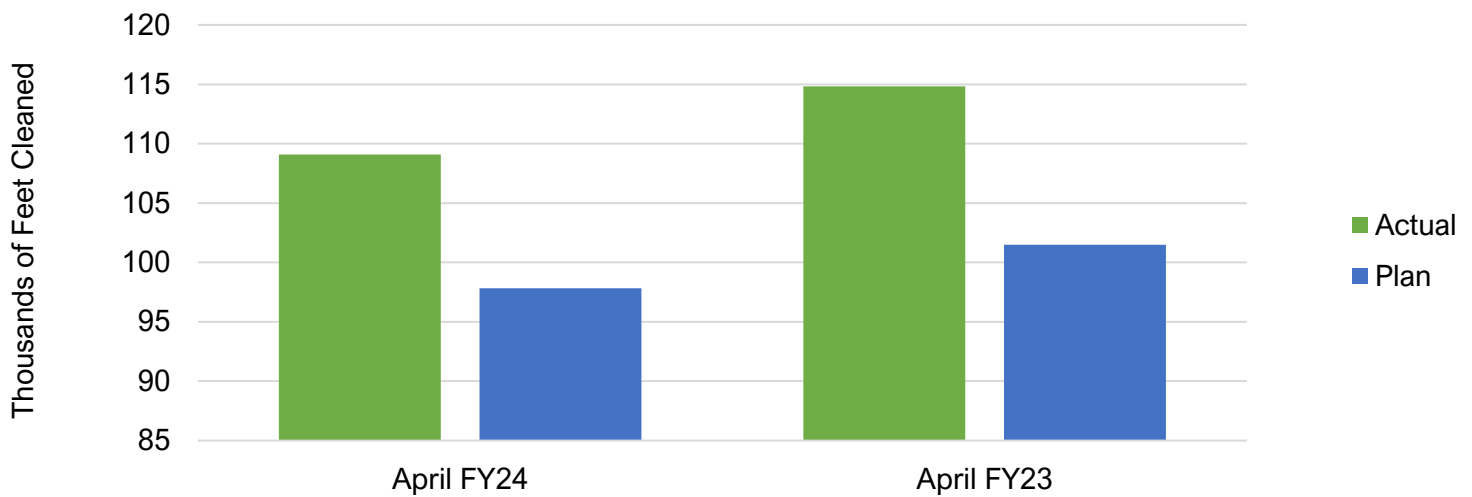
	This Month	Fiscal Year to Date	Historical Monthly Average
Sewer Line Repairs - # of Open Trench	0	5	0
Sewer Line Repairs - # of Trenchless	21	133	14
Work Orders Completed on Vehicles and Buildings	199	1785	179



Maintenance Report

2024 MONTHLY OPERATIONS REPORT

Sewer Line Cleaning



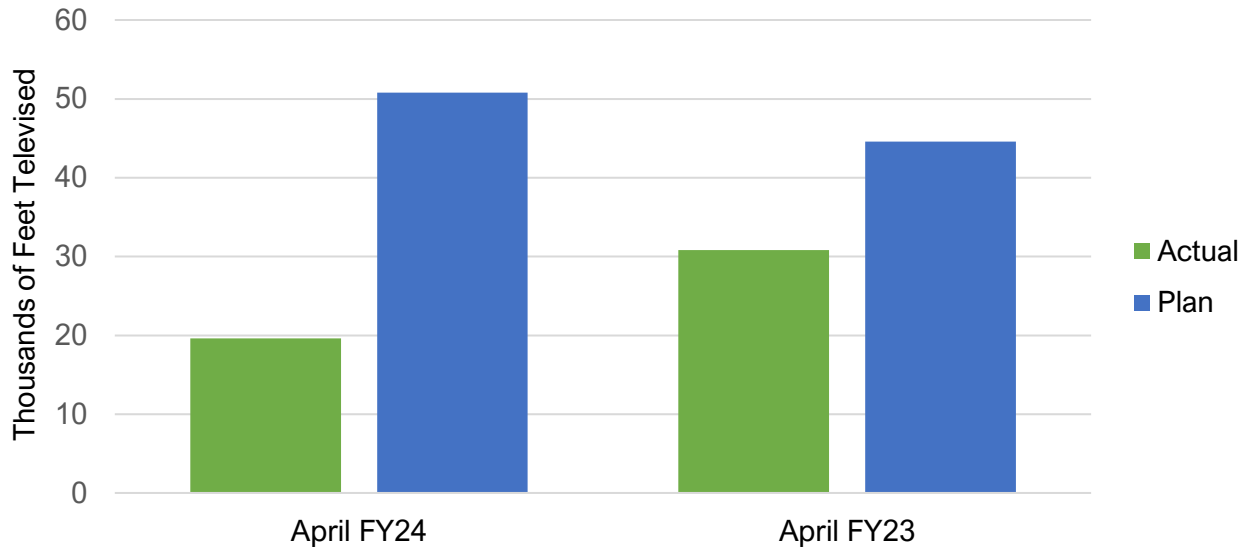
Cleaning Cost per Foot=\$0.90								
Description	FY24 Qtr 1 Footage	FY24 Qtr 2 Footage	FY24 Q3 Footage	Apr-24 Footage	FY24 YTD	Historical FY23	FY24 YE Goal	% Completed to Plan
84 Month Hydro-Jet Clean	162,988	112,694	156,043	58,576	490,301	589,507	680,354	72.1%
Selective Line Cleaning	63,183	42,725	67,355	19,995	193,258	211,253	216,307	89.3%
Special Condition Clean (not in total)	9,383	8,652	28,155	-	49,722	36,554	28,940	171.8%
Root Control/Chemical Clean	12,073	110,643	110,889	30,510	264,655	420,273	277,200	95.5%
Cast Iron Cleaning	-	-	-	3,532	-	7,498	-	0.0%
Totals	238,244	266,062	334,287	109,081	947,674	1,228,528	1,173,861	80.7%



Maintenance Report

2024 MONTHLY OPERATIONS REPORT

Sewer Line Inspection and Televising



Televising Cost per Foot=\$1.04								
Description	FY24 Qtr 1 Footage/Count	FY24 Qtr 2 Footage/Count	FY24 Qtr 3 Footage/Count	Apr-24 Footage	FY24 YTD	Historical FY23	FY24 Goal	% Completed to Plan
84 Month TV Inspection	92,765	106,435	132,468	19,607	351,275	478,376	530,567	66.2%
84 Month Manhole Inspection Count	629	587	659	295	2,170	2,563	2,676	81.1%
Visual/Condition, Pre/Post Cnst TV (not in total)	64	753	886	1,455	3,158	10,483	11,704	27.0%
Visual Manhole Inspection Count (not in total)	42	124	135	2	303	247	-	-
New Development, CIP, Misc (not in total)	1,318	3,649	1,329	6,466	12,762	25,583	28,261	45.2%
QA/QC Line Condition	-	-	52,442	-	52,442	16,436	52,843	99.2%
QA/QC Root Control	28,335	-	-	-	28,335	41,050	27,744	102.1%
Totals	121,100	106,435	184,910	19,607	432,052	535,862	611,154	70.7%

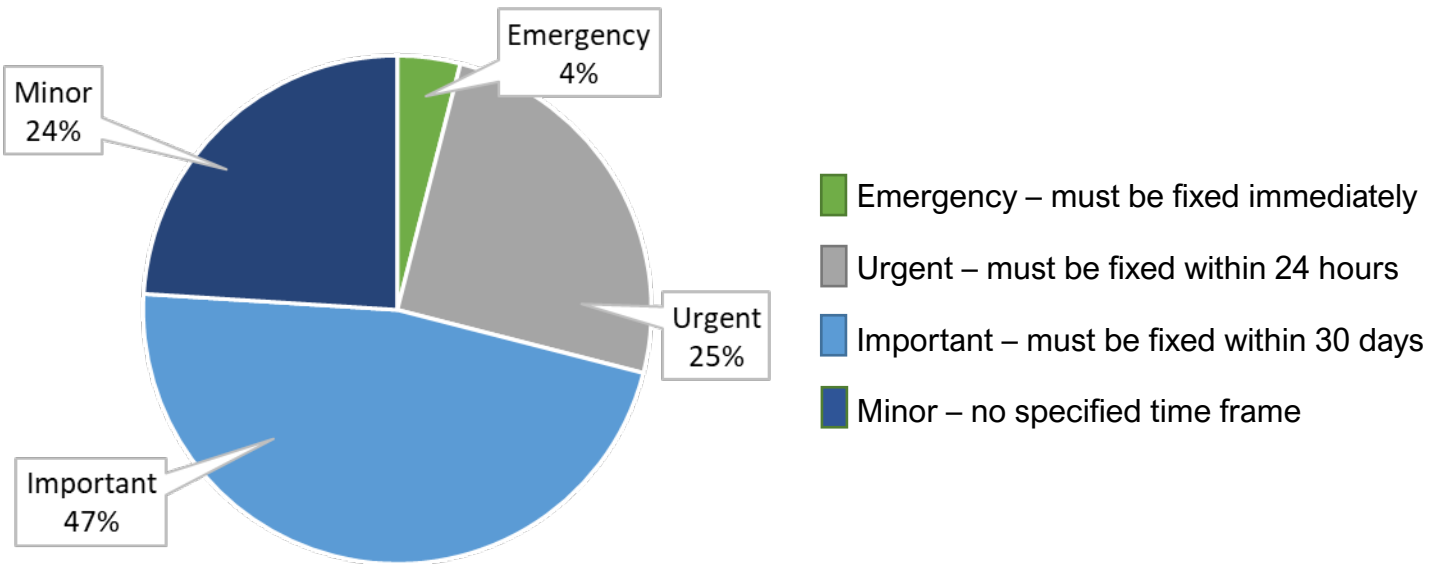


Maintenance Report

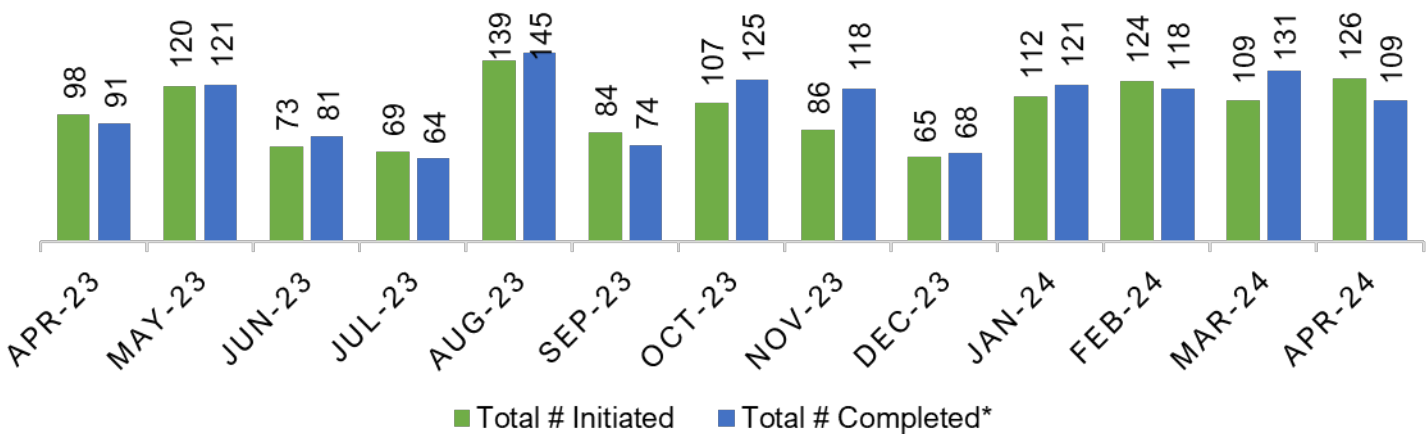
2024 MONTHLY OPERATIONS REPORT

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 99.1% 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.



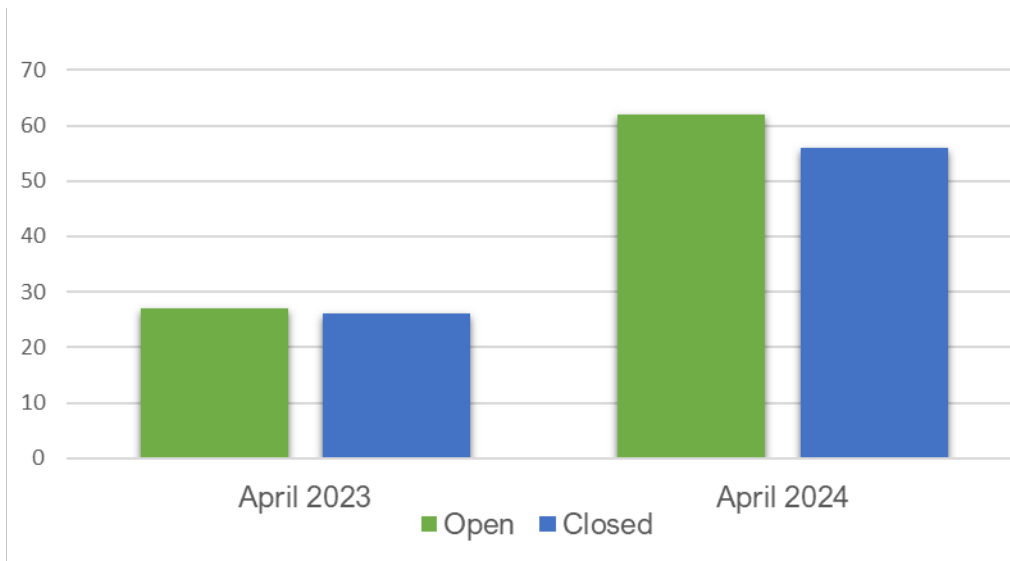
Maintenance Report

2024 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	99.98%
Email Server	Hosted	100%
Newark Pump Station	USD Managed	100%
Boyce Pump Station	USD Managed	100%
Irvington Pump Station	USD Managed	100%
SCADA	USD Managed	100%
Total Average of All USD Servers	USD Managed	99.97%

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

2024 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 – Alvarado Influent Valve Box Rehabilitation Project	\$1,297	\$0	12/24	5%
2 – Force Main Corrosion Repairs Project – Phase 4	\$2,042	\$476	10/24	20%
3 – Plant Miscellaneous Improvements Project	\$5,544	\$2,628	9/24	45%
4 – Standby Power Generation System Upgrade Project	\$21,135	\$18,800	6/24	91%



Standby Power Generation System Upgrade Project



Capital Improvement Projects

2024 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 – Force Main Stabilization at Alameda Creek Project	\$114	\$0	10/24	4%
2 – FY24 Gravity Sewer Rehabilitation/ Replacement Project	\$153	\$0	8/24	5%
3 – Pump Stations Chemical System Improvements Project	\$943	\$897	12/23	95%
4 – Switchboard No. 3 and MCC No. 25 Replacement Project	\$95	\$80	7/22	85%
5 – WAS Thickener Replacement Project	\$1,017	\$958	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	\$184	11/24	46%
2 – Co-Digestion Feasibility Study	\$125	\$71	3/24	57%
3 – Cogeneration Replacement and Ventilation Study	\$142	\$137	7/22	98%
4 – Digester Efficiency Study	\$353	\$208	11/23	85%
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	\$139	9/22	90%



Permitting and Inspections

2024 MONTHLY OPERATIONS REPORT

Sewer Permits Issued

Permits issued upon approved completed plans.

Month	Repairs	Mains	New Laterals*	Secondary Units	Other**	Total
Apr-24	20	0	2	10	1	33
Mar-24	17	1	16	14	1	49
Feb-24	23	0	15	7	4	49

*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
116	952	4	0	3	14	1	0	22

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
58	619	3	7	0	0	0	0	10

Permitted Industrial Businesses

City	Industrial Permits
Fremont	57
Newark	11
Union City	11

Examples of Permitted Industrial Businesses:

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



Staffing and Personnel

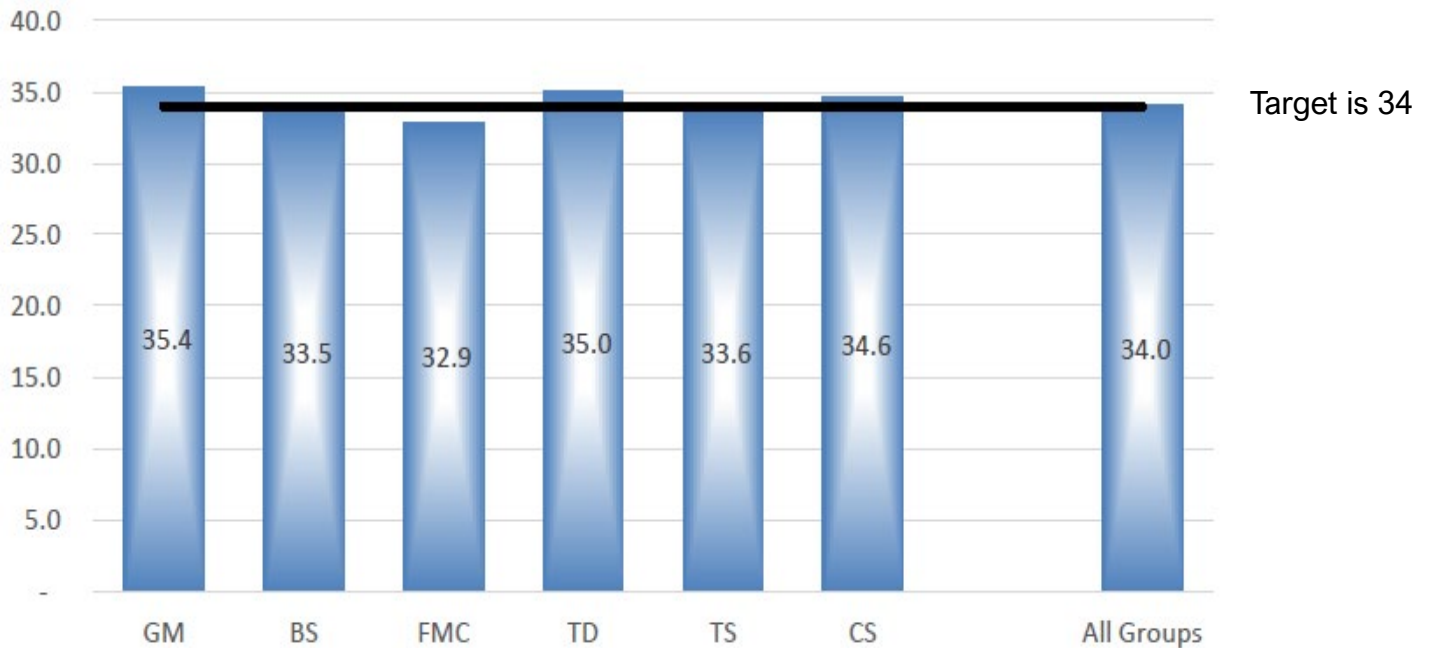
2024 MONTHLY OPERATIONS REPORT

Hours Worked and Leave Time by Work Group

June 22, 2023 through April 24, 2024

Weeks to Date 44 out of 52 (84.6%)

At-Work Hours Per Employee Per Week



Average Annual Sick Leave Used Per Employee Per Date





Staffing and Personnel

2024 MONTHLY OPERATIONS REPORT

Recruitments

Position	Position Posted	Status
Environmental Compliance Inspector I/II	11/28/2023	Eduardo Cabrera, EC Inspector II, DOH 5/6/2024.
ETSU Junior/Assistant/Associate Engineer – Limited Duration (2 positions)	1/5/2024	James Wang, Associate Engineer, DOH 5/6/2024. Julia Petzoldt, Junior Engineer, DOH 07/15/2024.
Collection Systems Worker I	1/9/2024	Cody Bybee, CSW I, DOH 4/8/2024.
Mechanic I	1/19/2024	Phil Kim, Mechanic I, status change 4/6/2024.
Chemist I/II	3/21/2024	In process.
Customer Service Fee Analyst	3/28/2024	In process.
Mechanic I/II – Limited Duration	3/29/2024	Useable List. Candidate in background process.
CIP Junior/Assistant/Associate Engineer	05/02/2024	In process.
Planner/Scheduler I	05/17/2024	Useable List. Internal recruitment in process.

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy



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

Karen W. Murphy
Attorney

**MAY 28, 2024
BOARD OF DIRECTORS MEETING
AGENDA ITEM #8**

TITLE: **Authorize the General Manager to Execute an Agreement with ACWD and Pay Fees for the Water Main Relocation and Replacement for the Enhanced Treatment and Site Upgrade Phase 1A Campus Building Project *(to be reviewed by the Engineering and Information Technology Committee) (Motion Item)***

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

Recommendation

Staff recommends the Board authorize the General Manager to execute an agreement with the Alameda County Water District (ACWD) for a public water system relocation, replacement and extension, subject to revisions that may be approved by the General Manager in consultation with the General Counsel, and; authorize the General Manager to pay ACWD fees in the amount of \$359,156.00 for the water main relocation and replacement for the Enhanced Treatment and Site Upgrade Phase 1A Campus Building Project (Project).

Discussion

The Project includes the relocation of the existing ACWD water main and water meters that currently feed the treatment plant and other buildings. The relocation is needed to facilitate the construction of new clarifiers in the ETSU Phase 1B Project as well as to provide service to the new ETSU Campus building. Further, ACWD and USD staff have agreed that it is mutually beneficial to replace an existing water pipe that runs through the USD site to Veasy Street with the replacement costs being shared between ACWD and USD.

The existing water main is an old brittle pipe material that can be subject to cracking or failure when the ground around the pipe is disturbed. The ETSU program is proposing several new utility crossings around this existing pipe which increases the potential for a pipe failure. Staff believes there are benefits to both Districts in replacing the entirety of the existing water main now to improve reliability and prevent future operational disruptions.

The attached exhibit shows the location of the existing and the proposed new water main piping. The table below summarizes the water meters at the plant site that are proposed to be relocated and added in the Project.

Meter Service Type	Meter Size	New/Relocate
Irrigation	2"	Relocated
Fire Water	10"	Relocated
Potable Water for Plant Process Use	4"	Relocated
Potable Water for Campus and other Occupied Building Use	2"	New

ACWD requires a public water system extension agreement with USD for all changes to the water main and meters. The agreement incorporates the specifications the new water facilities must meet, clarifies which work is performed by ACWD versus work performed by USD's contractor, defines the fees for the work and specifies the improvements are the property of ACWD.

Summary of ACWD Fees

Staff first presented their estimate of all ACWD fees to the Board on May 9, 2022. Staff had preliminarily budgeted \$350,000 for these costs. Since then, ACWD has developed the following more detailed estimate for their fees that includes a refund for the additional water main installation.

Anticipated ACWD Fees	Amount
Capacity fee	\$89,256.00
New main connection and closure fees	\$129,900.00
Meter removal and installation fees	\$90,000.00
Inspection/Engineering Fees	\$50,000.00
Total Fees to ACWD	\$359,156.00
ACWD Refund for replacement of additional water main	\$153,757.49
Net Fees to ACWD	\$205,398.51

ACWD self performs work related to connections to the existing water main and installation of the new meters and removal of existing meters. ACWD will also inspect the contractor's work as they install the new water main pipe. The fees paid for inspection and installation will be the actual costs incurred by ACWD on the project. The District will be refunded by ACWD for any unused fees and fees associated with the additional water main replacement.

The proposed agreement includes ACWD refunding \$153,757.49 for ACWD's share of the additional pipe replacement at the conclusion of the work. Under a separate agenda item, staff has proposed the Board authorize executing a change order with the USD contractor to replace the remainder of the old water main pipe at a cost of \$307,514.97. If the change order is approved, ACWD's share of these costs will reduce the net balance of fees paid as shown in the table below.

Background

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

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

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

The full version of the ETSU Program report, including appendices, can be found at the District's website.

ETSU Phase 1A Project

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

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

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

Previous Board Action

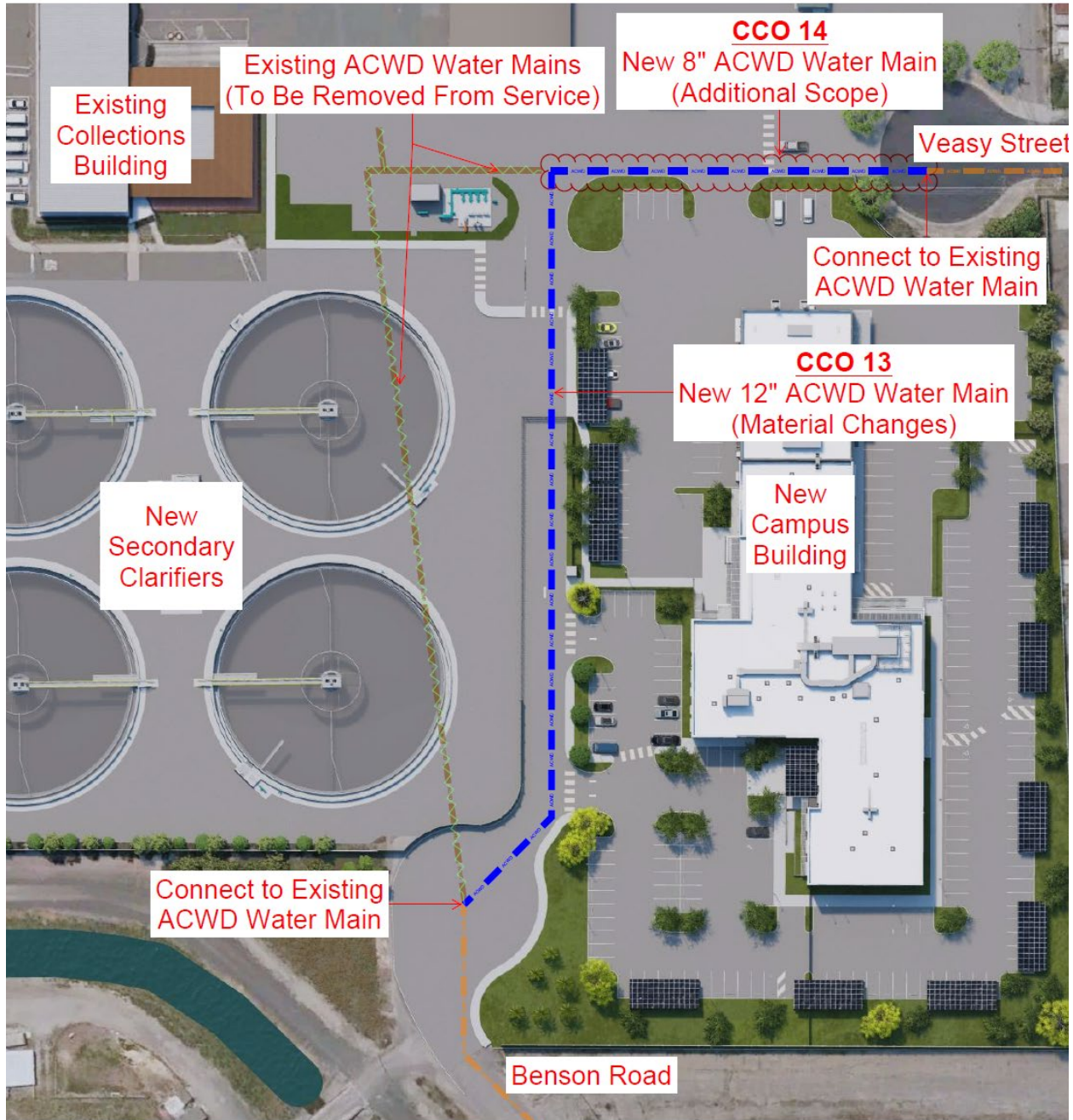
August 26, 2019, the Board Adopted Resolution 2864 Approving the District's Final Report for the Enhanced Treatment & Site Upgrade Program.

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

Attachments

1. Exhibit A ACWD Main Overview
2. USD ETSU Campus PWSE Agreement Updated 5-15-24

Exhibit A:
ETSU Phase 1A: Campus Building Project
ACWD Water Mains



**ALAMEDA COUNTY WATER DISTRICT
PUBLIC WATER SYSTEM EXTENSION AGREEMENT**

AGREEMENT NO. _____

UNION SANITARY DISTRICT, UNION SANITARY DISTRICT CAMPUS BUILDING,

ACWD #2022-0004

THIS AGREEMENT is made and entered into as of the _____ day of _____ 2024, by and between ALAMEDA COUNTY WATER DISTRICT, a county water district duly organized and existing under the County Water District Law (being Division 12 of the Water Code of the State of California), hereinafter called DISTRICT; and UNION SANITARY DISTRICT, a California Sanitary District, hereinafter called DEVELOPER;

W I T N E S S E T H :

WHEREAS, DISTRICT owns, operates and maintains a water system, a portion of which system is within the City of Union City, County of Alameda, State of California; and

WHEREAS, pursuant to the County Water District Law, DISTRICT has undertaken the distribution of a domestic, municipal, and industrial supply of water to the persons, industries, and residents within the boundaries of DISTRICT; and

WHEREAS, DEVELOPER is a California Sanitary district that is currently proceeding with a capital improvement project to replace aging infrastructure and facilities desires to purchase from DISTRICT water for use on certain lands it owns in the City of Union City, which lands are delineated on that certain sketch entitled "UNION SANITARY DISTRICT, UNION SANITARY DISTRICT CAMPUS BUILDING, ACWD #2022-0004," which sketch is attached hereto, marked Exhibit "A," and made a part hereof; and

WHEREAS, DISTRICT is willing to supply water service to said lands upon performance by DEVELOPER of the applicable terms and conditions contained in DISTRICT's regulations, and the terms and conditions of this Agreement; and

WHEREAS, DISTRICT has determined that, in order for DISTRICT to serve said lands, it will be necessary for DEVELOPER to install or cause to be installed the water system in accordance with approved plans, DISTRICT's Standard Specifications for Water Main Installation, and DISTRICT's Development Specifications for Public Water System Extensions; and

WHEREAS, DEVELOPER agrees to convey to DISTRICT the water system set forth in the plans approved by DISTRICT upon acceptance of the water system by DISTRICT; and

NOW, THEREFORE, for valuable consideration, DISTRICT and DEVELOPER agree as follows:

ARTICLE I – CONSTRUCTION: As a condition of service of water by DISTRICT to the lands mentioned herein, DEVELOPER will furnish or cause to be furnished the materials and do or cause to be done the construction work that is necessary to install the water system in accordance with the plans titled ENHANCED TREATMENT AND SITE UPGRADE PROGRAM, PHASE 1A PROJECT – CAMPUS BUILDING, and approved by the DISTRICT on February 27, 2024, hereinafter referred to as Approved Plans, the DISTRICT's "Standard Specifications for Water Main Installation," hereinafter referred to as DISTRICT's Standard Specifications, and the DISTRICT's "Development Specifications for Public Water System Extensions," hereinafter referred to as DISTRICT's Development Specifications. The Approved Plans, DISTRICT's Standard Specifications, and DISTRICT's Development Specifications are incorporated herein by reference as if set forth in their entirety. Said water system is delineated on Exhibit "A" and is set

forth in Column 1, “WATER MAIN TO BE INSTALLED BY, CHARGEABLE, AND REFUNDABLE TO DEVELOPER” and Section A, “Other Work Required and Chargeable to DEVELOPER” on Exhibit “C.”

As a further condition of service and prior to the start of construction, DEVELOPER’s water system Contractor shall secure from DISTRICT’s Engineering Department a DISTRICT permit for the construction of the work. The form of permit is attached to this Agreement as Exhibit “E.” All information required by the permit must be completed prior to issuance of the permit. All conditions, terms, and requirements stated in the permit shall be binding jointly and severally on DEVELOPER and DEVELOPER’s water system Contractor and any sub-contractors or agents of the Contractor. Until the permit is issued by DISTRICT, there shall be no work inspection by DISTRICT and any work constructed before issuance of permit shall not be accepted by DISTRICT nor allowed to be connected to DISTRICT system. DEVELOPER shall, prior to the beginning of any work on the water system, obtain any and all other permits and approvals necessary from other governmental agencies needed in order to commence construction of the development. DISTRICT reserves the right to revoke the permit if DISTRICT determines that DEVELOPER or DEVELOPER’s Contractor is not complying with the conditions in the permit or this Agreement, and any work constructed after the revocation of permit shall not be accepted by DISTRICT nor allowed to be connected to DISTRICT system.

ARTICLE II – WATER SYSTEM CONSTRUCTION INSPECTION

A. DEVELOPER shall notify DISTRICT in writing at least two (2) working days and at least 48 hours in advance of the proposed starting date for construction of the water system and shall not commence construction unless a DISTRICT representative is at the site of the work when construction begins. DISTRICT agrees to make a DISTRICT representative

available to be on site, provided at least two (2) working days and at least 48 hours advance notice is given by DEVELOPER. If construction is not continuous, DISTRICT shall be notified at least one (1) working day and at least 24 hours in advance of the resumption of construction. DEVELOPER agrees that any water system work performed without notice to or not inspected by DISTRICT is subject to rejection by DISTRICT on that ground alone. The DISTRICT will observe and inspect facilities solely to protect the interests of the DISTRICT and to determine whether the completed work is acceptable to DISTRICT and can be incorporated into the DISTRICT system. The DISTRICT does not assume thereby any responsibility for the operations or safety practices of DEVELOPER. DEVELOPER is responsible for correct location of all facilities that it installs. The DISTRICT will not inspect facilities installed “downstream” of the meters or other water service devices.

B. DEVELOPER shall permit DISTRICT's employees and authorized representatives to inspect the water system, and the plans and materials therefore, at any reasonable time before, during, or after installation.

C. DEVELOPER shall repair at its expense (or, at the option of DISTRICT, shall reimburse DISTRICT for the actual cost of repairs effected by it) any damage to DISTRICT property caused by DEVELOPER, its agents, employees, or contractors in constructing the water system.

ARTICLE III – PLANS AND SPECIFICATIONS: The material used in, and the installation of, the above water system shall be in accordance with (1) the Approved Plans; (2) DISTRICT's Standard Specifications, including DISTRICT's Approved Materials List; (3) DISTRICT's Development Specifications; and (4) the further reasonable direction of the DISTRICT.

ARTICLE IV – FEES AND CHARGES:

A. CONSTRUCTION: DEVELOPER shall pay the entire cost of permits and approvals, materials and supplies, and construction of the water system required pursuant to Article I above. Except as herein expressly set out in Article V or Article VI below, no reimbursement shall be made by DISTRICT to DEVELOPER for the mains, pipes, materials, and extensions installed and transferred hereunder or any part thereof, it being expressly agreed by the parties hereto that the benefits received by DEVELOPER, both present and future, including but not limited to benefits to the land to be developed and to adjacent lands by reason of the construction of the system provided for herein and integration of this system into the DISTRICT, is agreed to be full and just consideration for all obligations and liabilities assumed hereunder by DEVELOPER.

B. PUBLIC WATER SYSTEM EXTENSION ENGINEERING FEE: DEVELOPER shall pay to DISTRICT a Public Water System Extension Engineering Fee to reimburse DISTRICT for its actual costs related to services and work performed by DISTRICT, including but not limited to plan review, easement and agreement preparation and administration, construction inspection, testing and water quality analyses, and other administrative services provided by DISTRICT in relation to the project. In addition, the DISTRICT may apply any outstanding charges associated with a metered jumper assembly to the Public Water System Extension Engineering Fee. The Public Water System Extension Engineering Fee does not include costs for DISTRICT work in support of tie-ins (connections between an existing water main and a new water main), water service connections and meters, fire service connections, fire hydrants, detector check valves, relocation or abandonment of existing District facilities and any other such work performed by DISTRICT. DISTRICT's acceptance of the water system is contingent upon

payment of all Public Water System Extension Engineering Fees. DEVELOPER previously submitted to DISTRICT a Public Water System Extension Engineering Fee deposit when DEVELOPER submitted the Application for Public Water System Extension. The amount of the Public Water System Extension Engineering Fee initial deposit is shown on Exhibit “B.”

C. FACILITIES CONNECTION CHARGES: As a condition of water service, and as a prerequisite of water meter installation, DEVELOPER shall pay to DISTRICT all applicable Facilities Connection Charges. Facilities Connection Charges will be due and payable at the time of Conditional Acceptance (reference Article X) at the rates in effect at that time. Payment prior to Conditional Acceptance will not be accepted. If DEVELOPER delays the physical installation of any meter(s) beyond one year from the date of payment, then the Facilities Connection Charges in effect at the time DEVELOPER requests physical installation of meters will be applicable. DEVELOPER will be required to pay any incremental cost increase between the amounts previously paid for these charges and the amount due at the time of installation of the meter(s). The total amount for Facilities Connection Charges at the rates currently in effect is set forth on Exhibit “B.”

D. METER INSTALLATION CHARGES: As a condition of water service, and as a prerequisite of water meter installation, DEVELOPER shall pay to DISTRICT all applicable Meter Installation Charges. Meter Installation Charges will be due and payable at the time of Conditional Acceptance (reference Article X) at the rates in effect at that time. Payment prior to Conditional Acceptance will not be accepted. If DEVELOPER delays the physical installation of any meter(s) beyond one year from the date of payment, then the Meter Installation Charge in effect at the time DEVELOPER requests physical installation of meters will be applicable. DEVELOPER will be required to pay any incremental cost increase between the

amounts previously paid for these charges and the amount due at the time of installation of the meter(s). The total amount for Fixed Rate Meter Installation Charges at the rates currently in effect is set forth on Exhibit “B.” Meters that have no Fixed Rate Meter Installation Charge will be installed in accordance with Article VIII and are listed in Section “A” of Column 1, “Other Work Required and Chargeable to DEVELOPER,” on Exhibit “C”.

ARTICLE V – POTENTIAL REIMBURSEMENT:

Not Applicable.

ARTICLE VI – REFUNDS:

A. DISTRICT PAYMENTS FOR REFUNDS: In accordance with the “Policy Governing Water Services and the Extension and Improvement of the Water Distribution System and Facilities of Alameda County Water District,” DEVELOPER shall be eligible to receive from DISTRICT’s Facilities Improvement Fund a refund as set forth below. Refunds from the Facilities Improvement Fund are paid to each eligible DEVELOPER upon acceptance of the public water system by DISTRICT pursuant to Article XI of this Agreement and upon DISTRICT determination of the sum for which each eligible DEVELOPER shall be eligible to receive refunds pursuant to Section C below.

B. REFUNDS FOR CERTAIN CAPITAL IMPROVEMENT PROGRAM FACILITIES: DEVELOPER shall be eligible for a refund because DISTRICT has determined that DEVELOPER must install public water system facilities which are part of DISTRICT’s Capital Improvement Program that are not required to serve DEVELOPER’s premises. Those certain public water system facilities or portions thereof which are eligible for refunds are denoted as “OVERSIZE CIP FACILITIES” or “REFUNDABLE CIP FACILITIES” on Exhibits “A” and “C” attached hereto.

After performance by DEVELOPER of all terms and conditions of this Agreement, DEVELOPER shall be eligible to receive a refund for the difference between the cost of installing and constructing “OVERSIZE CIP FACILITIES” set forth in Column 1 of Exhibit “C” and those facilities set forth in Column 3 of Exhibit “C.” The sum for which DEVELOPER shall be eligible to receive a refund shall be determined pursuant to Section C below.

After performance by DEVELOPER of all terms and conditions of this Agreement, DEVELOPER shall be eligible to receive a refund for portions of the cost of certain public water system facilities set forth in Column 4 of Exhibit “C,” said public water system facilities sometimes hereinafter referred to as “REFUNDABLE CIP FACILITIES.” The sum for which DEVELOPER shall be eligible to receive a refund shall be determined pursuant to Section C below.

C. DETERMINATION OF COSTS: The estimated costs set forth on Exhibit “C” will be used as a basis to measure the amount of refund under the provisions of Sections A and B above. At DEVELOPER’s option, DEVELOPER may secure written bids, based upon the plans and specifications approved by DISTRICT for the installation and construction of the “REFUNDABLE CIP FACILITIES” as a basis to measure the amount of the refund. The bids must be submitted to the DISTRICT for review prior to the time of construction of the “REFUNDABLE CIP FACILITIES.” If, in the sole opinion of DISTRICT, the bids appear to be unreasonable, DISTRICT reserves the right to require DEVELOPER to submit itemized tabulations of all cost components comprising the bids for the “REFUNDABLE CIP FACILITIES.” The DISTRICT further reserves the right to require DEVELOPER to submit a certified, itemized tabulation of all cost components of the public water system facilities installed under this Agreement within thirty (30) days after completion and payment therefore by DEVELOPER. The calculation of DEVELOPER’s amount of refund shall be based upon the

lowest qualified bids received for the “REFUNDABLE CIP FACILITIES.” The amount of refund for “REFUNDABLE CIP FACILITIES” paid by DISTRICT to DEVELOPER shall bear the same proportion to the lowest qualified bids, respectively, as DISTRICT’s estimated amount of refund for public water system facilities bears to DISTRICT’s estimated costs of “REFUNDABLE CIP FACILITIES”. If the bids are determined by DISTRICT to be unreasonable then the basis of refund shall be determined pursuant to the estimated costs by DISTRICT as set forth on Exhibit “C.”

D. PREVAILING WAGE (to be used on mains in certain CIP Facilities)

The services of the DEVELOPER’s contractor required for the construction of the water main under this Agreement constitute a “public works” project as defined by law. Therefore, the DEVELOPER agrees to ensure their contractor and subcontractors comply with all applicable prevailing wage requirements set forth in California Labor Code Sections 1770 to 1781 inclusive. All workers employed on or in the execution of the project shall be paid not less than the applicable current general prevailing wage as determined by the Director of Industrial Relations. The current General Prevailing Wage Determinations are on file at the DISTRICT’S office, are available for inspection during regular business hours and shall be incorporated into this Agreement. The DEVELOPER shall be responsible for the compliance of its subcontractors.

The DEVELOPER’s attention is directed to the payroll records requirement of Labor Code Section 1776, and DEVELOPER’s contractor and subcontractors will keep an accurate payroll record, showing the name, address, social security number, work classification, straight time, and overtime hours worked each day and week, and the actual per diem wages paid to each worker in connection with services performed under this Agreement. The DISTRICT has not established a labor compliance program. Responsibility for labor law enforcement remains with the Division

of Labor Standards Enforcement.

E. MODIFICATION OF POLICY: DEVELOPER's right to refund under this Agreement shall not prevent DISTRICT from modifying its regulations, including but not limited to the "Policy Governing Water Services and the Extension and Improvement of the Water Distribution System and Facilities of Alameda County Water District" as DISTRICT may from time to time believe to be for the best interests of its consumers and the growth and expansion of its water system, provided that such modification does not adversely affect DEVELOPER's right to refund from funds set aside for refunding pursuant to these regulations.

ARTICLE VII – RELOCATION OF EXISTING DISTRICT FACILITIES: DEVELOPER shall, upon demand of DISTRICT, reimburse DISTRICT for the actual total costs incurred by DISTRICT in the removal and/or relocation of any existing DISTRICT facilities that may be required due to the development of the lands covered by this Agreement.

ARTICLE VIII – WORK BY DISTRICT: Where work is to be performed by DISTRICT as indicated in Section "A" of Column 1, "Other Work Required and Chargeable to DEVELOPER," on Exhibit "C," DISTRICT will furnish the materials and do the necessary construction work. DEVELOPER shall, upon demand of DISTRICT, pay DISTRICT for the total costs and expenses incurred by DISTRICT in performance of said construction work. Meters and appurtenances shall be installed by DISTRICT, upon request and payment for the same by DEVELOPER, after construction, installation, testing, and acceptance of the necessary portions of the aforesaid water system.

ARTICLE IX – EASEMENT: As a further condition of conditional acceptance of the water system by DISTRICT, DEVELOPER shall, where required by DISTRICT, grant, or cause to be granted to DISTRICT, a permanent easement for access, installation, maintenance, repair,

replacement, and use of the water system in substantially the form set forth in Exhibit “D” attached hereto and by this reference incorporated herein.

DEVELOPER shall submit to DISTRICT, within fifteen (15) days of DISTRICT issuance of a permit for public water system construction, a copy of the current title report(s) which shows the land owner(s) who will be executing easement documents and a copy of the recorded subdivision tract map for the development with all easements to be granted to the District shown. If there is not a recorded subdivision tract map or if the easements are outside the boundaries of the map, DEVELOPER shall submit to DISTRICT, within fifteen (15) days of DISTRICT issuance of a permit for public water system construction, a copy of the current title report(s) which shows the land owner(s) who will be executing easement documents and the written metes and bounds description and scale drawings of the easements, in a form acceptable to DISTRICT, prepared by either (1) a land surveyor licensed in the State of California, or (2) pursuant to Business and Professions Code Section 8731, a professional civil engineer licensed in the State of California before January 1, 1982 (who would have a license number below C33966). Closure connections, which include the removal of the jumper assembly and the connection between the new water system and the existing water system, will not be scheduled nor will water service be provided until after any required easements have been properly executed by the property owner and have been returned to and deemed acceptable by DISTRICT.

In the event the exact location of the water system at completion of construction is outside the limits of the executed easements above, DEVELOPER must deliver to DISTRICT a copy of the current title report(s) which shows the land owner(s) who will be executing easement documents and a revised metes and bounds description of the easements and plat drawings in a form acceptable to DISTRICT, prepared by either (1) a land surveyor licensed in the State of

California, or (2) pursuant to Business and Professions Code Section 8731, a professional civil engineer licensed in the State of California before January 1, 1982 (who would have a license number below C33966). DEVELOPER must deliver to DISTRICT fully executed and acknowledged easements acceptable to DISTRICT prior to final acceptance of the water system by DISTRICT.

ARTICLE X – CONDITIONAL ACCEPTANCE / APPROVAL FOR SERVICE AND REQUIREMENTS FOR OBTAINING METERING DEVICES

A. CONDITIONAL ACCEPTANCE / APPROVAL FOR SERVICE:

DISTRICT will conditionally accept the water system set forth in Article I above, when DEVELOPER has satisfactorily completed all of the following conditions:

1. Annexation Fees, if applicable, must be paid in full. All required Annexations must be completed.
2. All invoiced charges for work performed by DISTRICT for the development must be paid in full.
3. All metered jumper assemblies must be returned to the DISTRICT and all outstanding charges related to metered jumper assemblies must be paid.
4. All required easements must be properly executed and returned to DISTRICT.
5. All wells which are required by DISTRICT to be sealed must be sealed in accordance with DISTRICT specifications.
6. All water mains and appurtenances which are, in the opinion of DISTRICT, necessary for service or necessary for proper integration with the existing public water system must be satisfactorily installed and approved by DISTRICT.

7. All applicable pressure, leakage and bacteriological testing must be satisfactorily completed and approved by DISTRICT.

8. All necessary permanent connections between the new mains installed by Developer and DISTRICT mains must be satisfactorily completed and approved by DISTRICT.

9. All necessary valves, blowoffs and fire hydrants must be operable and accessible.

10. Placement of angle meter stops and installation of all necessary meter idlers, fire sprinkler connections and address labels for water meters must be in accordance with applicable DISTRICT Standard Drawings.

11. Submittal to DISTRICT Engineering Department of two full size copies of the recorded subdivision map and one 11" x 17" reduced size copy of the recorded subdivision map, if applicable.

12. Submittal to DISTRICT of two each of the following: a map of the subdivision tract indicating the subdivision boundary, lot lines, lot number and City-assigned street addresses, and a list of the lots in the tract indicating both lot numbers and corresponding City-assigned street addresses, if applicable. One set must be submitted to DISTRICT Customer Service Department, and one set must be submitted to DISTRICT Engineering Department.

B. REQUIREMENTS FOR OBTAINING METERING DEVICES:

DISTRICT will furnish and deliver water to the lands mentioned herein under the established water rates and rules and regulations of the DISTRICT applicable to such service after the installation of the metering devices. No metering devices will be installed until all of the following conditions have been completed:

1. The public water system has been conditionally accepted/ approved for service by DISTRICT as set forth in Section A, above.

2. All applicable Facilities Connection Charges and installation charges for service line and/or meter, chargeable to a particular lot or development, must be paid in full. As described in Article IV, if DEVELOPER delays the physical installation of any meters beyond one year from the date of payment, then the Facilities Connection Charge and the meter installation charge in effect at the time DEVELOPER requests physical installation of the meters will be applicable.

ARTICLE XI – FINAL ACCEPTANCE OF WATER SYSTEM: DISTRICT will finally accept and maintain the water system set forth in Article I above, when DEVELOPER has satisfactorily completed all of the following:

A. Completed installation of the water system in accordance with the Approved Plans, DISTRICT’s Standard Specifications, DISTRICT’s Development Specifications, and other DISTRICT requirements and such improvements have been accepted by DISTRICT;

B. Furnished DISTRICT with evidence that DEVELOPER has paid all costs incurred in constructing the water system and that there are no outstanding liens or encumbrances on the water system;

C. Furnished DISTRICT with satisfactory evidence that any applicable public right-of-way, including, but not limited to, any public street dedication, public utility easement (PUE) and water line easement (WLE), has been accepted by the city in whose jurisdiction the public water system is installed.

D. Provided DISTRICT with all necessary changes to easements for the water system pursuant to Article IX;

E. Provided DISTRICT with documentation of bonding of warranty maintenance satisfactory to DISTRICT pursuant to Article XVII;

F. Paid all applicable fees and charges to DISTRICT; and

G. Complied with all terms and conditions of this Agreement.

ARTICLE XII – TRANSFER OF WATER SYSTEM TO DISTRICT: DEVELOPER does hereby convey, assign, transfer, and set over to DISTRICT, its successors and assigns forever, the water system described in this Agreement. This conveyance shall be effective when DISTRICT accepts the water system pursuant to Article XI of this Agreement. DEVELOPER, on its own behalf and on behalf of DEVELOPER's assigns, does hereby warrant to DISTRICT, its successors and assigns that, at the time this conveyance becomes effective, DEVELOPER is the sole owner of a good and merchantable title to the water system and that the same is free from all liens, charges, and encumbrances whatsoever. Except as herein expressly set out in Article V or Article VI, DISTRICT has no obligation to reimburse or to refund DEVELOPER for any cost associated with the water system.

After the water system is conveyed and transferred to DISTRICT, DISTRICT may make extensions therefrom and laterals thereto at any point or points thereon.

DEVELOPER assumes responsibility for all costs associated with the maintenance and repair of the water system described in this Agreement for one year from the date the water system is finally accepted by the DISTRICT pursuant to Article XI of this Agreement. Thereafter, DISTRICT shall assume all responsibility for the maintenance and repair of the water system.

ARTICLE XIII – TIME OF PERFORMANCE: In the event DEVELOPER fails to comply with all the terms and conditions of this Agreement within a period of two (2) years following the execution of this Agreement by DISTRICT, DISTRICT shall be released from all of its obligations

under this Agreement and DISTRICT may terminate this Agreement.

ARTICLE XIV – ATTORNEY’S FEES: If any action at law or in equity is brought to enforce or interpret the provisions of this Agreement, the prevailing party shall be entitled to reasonable attorney’s fees in addition to any other relief to which it may be entitled.

ARTICLE XV – INDEMNITY

A. DISTRICT shall not be responsible or held liable in any manner whatsoever for any injury or damage which may be done to any person or property (or other loss or liability) arising from the performance or failure to perform the obligations set forth in this Agreement or the installation and construction of the water system by or on behalf of DEVELOPER.

B. DEVELOPER, on its behalf and on behalf of its successors in interest, hereby agrees to waive any claims against DISTRICT to the extent arising from or related to the activities described in Section A above, and to indemnify, defend and hold harmless the DISTRICT, its directors, officers, employees, and agents from and against any and all liability for the death of or injury to any person and for the loss of, or damage to, any property (including the loss of its use) to the extent they arise from the performance or failure to perform the obligations set forth in this Agreement or the installation and construction of the water system by or on behalf of DEVELOPER. The agreements contained in this Article shall survive the performance of the remainder of this Agreement and shall remain in full force and effect thereafter.

ARTICLE XVI – INSURANCE

A. DEVELOPER or its construction contractor shall, at no cost to DISTRICT, maintain in full force and effect during the period beginning with commencement of construction of the water system and terminating no earlier than one year from and after DISTRICT’s

acceptance of the water system pursuant to Article XI of this Agreement, a policy or policies of commercial general liability insurance, as follows:

1. General liability in an amount not less than One Million Dollars (\$1,000,000.00) per occurrence and Two Million Dollars (\$2,000,000.00) general aggregate; and
2. Personal and advertising injury insurance in an amount not less than One Million Dollars (\$1,000,000.00) per occurrence; and
3. Excess liability or umbrella liability in an amount not less than Two Million Dollars (\$2,000,000.00) per occurrence.

Such policies shall name DISTRICT, its directors, officers, employees and agents as an additional insured against any and all liability for the death of or injury to any person and for the loss of or damage to any property which may arise by reason of acts done or omitted to be done as a result of the installation and construction of the water system by or on behalf of DEVELOPER and shall further insure DISTRICT as an additional insured against any and all costs and expenses, including attorneys' fees, which DISTRICT may incur in resisting any claim which may be made against DISTRICT for any such injury or damage.

B. Each such policy shall:

1. Be issued by an insurance company or companies qualified to do business in California;
2. Name DISTRICT, its Directors, officers, agents and employees, as additional insureds;
3. Specify that it acts as Primary Insurance; the insurer being liable thereunder for the full amount of any loss up to and including the total limit of liability without right of contribution from any insurance effected by DISTRICT;

4. Provide that the policy shall not be cancelled or altered without thirty (30) days' prior written notice to DISTRICT; and

5. Otherwise be in a form reasonably satisfactory to DISTRICT.

C. DEVELOPER or its contractor shall provide, and maintain at all times during the course of installation and construction of the water system, Worker's Compensation Insurance in conformance with the laws of the State of California. Such policy shall provide that the underwriter thereof waives all right of subrogation against DISTRICT by reason of any claim arising out of or connected with installation and construction of the water system and that such policy shall not be cancelled or altered without thirty (30) days' prior written notice to DISTRICT.

D. Copies of all policies required above (or Certificates of Insurance satisfactory to DISTRICT) shall be delivered to DISTRICT at least ten (10) days prior to, and such delivery shall be a condition of, issuance of a permit for public water system construction. Insurance not meeting DISTRICT requirements will be cause for withholding or revoking a permit for public water system construction.

ARTICLE XVII – BONDING

A. BONDING REQUIRED: DEVELOPER or its construction contractor will be required to furnish, at no cost to DISTRICT, bonding for faithful performance (Performance Bond), payment (Payment Bond), and warranty maintenance (Warranty Bond) of the public water system extension.

B. BONDING USING CITY BONDING REQUIREMENTS: If DEVELOPER or its contractor is required by the city in whose jurisdiction the public water system extension is being installed to secure bonding, then that bonding may be used to satisfy DISTRICT bonding

requirements as set forth in this Section B. Any bond or bonds not meeting the requirements in this Section must be furnished under the requirements set forth in Section C.

DEVELOPER or its contractor shall furnish bonding for faithful performance and payment of the public water system extension in the amounts required by the city, but in no event less than one hundred percent (100%) of the estimated cost of constructing the public water system extension. To avoid potentially significant delays in receiving a permit for the public water system construction, it shall be the responsibility of DEVELOPER or its contractor to confirm DISTRICT's approval of the proposed bond amounts prior to the execution of the bonding for faithful performance and payment. Upon execution of this bonding, DEVELOPER or its contractor shall submit to DISTRICT documents confirming these bonding requirements are met, including copies of the executed bonds provided to the city. DEVELOPER or its contractor shall provide DISTRICT at least ten (10) working days to review the documents. Bonding documents and bonding amounts must be satisfactory to DISTRICT. DISTRICT approval of executed documents and bond amounts shall be a condition of issuance of a DISTRICT permit for public water system construction. Bonding documents for the faithful performance and payment not meeting DISTRICT requirements or bonding amounts not acceptable to DISTRICT will be cause for withholding or revoking a permit for public water system construction.

Bonding for faithful performance shall be maintained in full force and effect until each and every one of the covenants and conditions of this Agreement are completed, including through the one year warranty period. Bonding for payment shall be maintained in full force and effect until after DISTRICT finally accepts the public water system pursuant to Article XI and all claims against DEVELOPER or its contractor for materials and labor have been paid. DISTRICT shall issue a letter to DEVELOPER and its contractor as evidence of such completion.

If it is not included as part of the bonding for faithful performance, DEVELOPER or its contractor shall also provide bonding to warranty maintenance of the public water system during the one year period from DISTRICT's final acceptance of the water system pursuant to Article XI of this Agreement. The amount of the bonding required during this warranty period of the public water system extension shall be in the amounts required by the city for the warranty bond, but in no event less than fifty percent (50%) of the cost of constructing the public water system extension. DEVELOPER or its contractor shall provide DISTRICT at least ten (10) working days to review the executed documents, which must include a copy of the executed bond provided to the city. Bonding documents and the bonding amount shall be satisfactory to DISTRICT. Bonding documents not meeting DISTRICT requirements will be cause for withholding DISTRICT's acceptance of the water system pursuant to Article XI of this Agreement. This bond shall be maintained in full force and effect until each and every one of the covenants and conditions in force for the warranty period are completed.

C. BONDING DIRECTLY WITH DISTRICT: If DEVELOPER or its contractor is not required to provide bonding for the city in whose jurisdiction the public water system extension is being installed, or if the city bonding does not meet DISTRICT requirements or approval as set forth in Section B above, then the following requirements shall apply.

DEVELOPER or its contractor shall furnish bonding for faithful performance, which shall include the warranty period, and payment in an amount of no less than one hundred percent (100%) of the estimated cost of construction of the public water system extension. DEVELOPER or its contractor shall confirm the DISTRICT's approval of the estimated cost of constructing the public water system extension prior to the execution of the bonding for faithful performance and payment. The bonding for faithful performance shall be so conditioned as to

insure the faithful performance by DEVELOPER and its construction contractor of all covenants and conditions of this Agreement and the replacing of, or making acceptable, any defective materials or faulty workmanship occurring within the warranty period specified. The bonding for payment shall be so conditioned for the payment in full of the claims of all claimants and by its terms inure to the benefit of any person or laborer, authorized by a direct contractor, subcontractor, architect, project manager, or other person having charge of all or part of the work to provide work for the DEVELOPER or its construction contractor.

The surety or sureties must be qualified to do business in the State of California. Should any Surety or Sureties become insolvent for any reason or no longer be admitted to transact surety business in the State of California, DEVELOPER or its construction contractor shall immediately notify DISTRICT. Alternatively, if DISTRICT determines that a surety or sureties is unsatisfactory, notice will be given to DEVELOPER and its construction contractor to that effect. In any of these situations, DEVELOPER or its construction contractor shall immediately substitute a new surety or sureties satisfactory to DISTRICT. DISTRICT may suspend inspection under this Agreement until the new surety or sureties shall qualify and be accepted by DISTRICT and replacement bonds are submitted to and accepted by DISTRICT. Each bond shall be signed by both the DEVELOPER or its construction contractor and the surety or sureties, and the surety must attach an acknowledgement by a notary public and a valid power of attorney authorizing execution of the bonds.

Bonding for faithful performance shall be maintained in full force and effect until each and every one of the covenants and conditions of this Agreement are completed and until not less than one (1) year after DISTRICT's final acceptance of the public water system pursuant to Article XI of this Agreement. Bonding for payment shall be maintained in full force and effect

until after DISTRICT's final acceptance of the public water system pursuant to Article XI and all claims against DEVELOPER or its contractor for materials and labor have been paid. DISTRICT shall issue a letter to DEVELOPER and its contractor as evidence of such completion.

ARTICLE XVIII – ASSIGNMENT: DEVELOPER's rights under this Agreement may be assigned only in connection with a sale or conveyance of the subject property. No such assignment shall be valid or binding on the DISTRICT unless the assignee executes a written instrument, in form and substance satisfactory to DISTRICT, assuming all of DEVELOPER's obligations under this Agreement, which have not been fully performed as of the date of assignment. Such assignment shall not release DEVELOPER from any of its obligations to DISTRICT under this Agreement.

This Agreement shall be binding upon and shall inure to the benefit of the parties and their successors and permitted assigns. If, after acceptance of the water system by DISTRICT pursuant to Article XI of this Agreement, the DEVELOPER or a permitted successor or assign shall disincorporate, forfeit its articles or right of incorporation, or otherwise fully terminate without a successor or assign, DISTRICT shall as of the date of disincorporation, forfeiture or termination own the water system free and clear of any obligation to any party.

ARTICLE XIX – NOTICE: Any notice required by this Agreement shall be satisfied by a notice in writing, either delivered personally, by courier, or sent by regular or certified mail, postage prepaid, and addressed as follows:

DISTRICT: Alameda County Water District
43885 S. Grimmer Boulevard
Fremont, CA 94538
Attention: Sean O’Reilly

DEVELOPER: Union Sanitary District
5072 Benson Road
Union City, CA 94587
Attention: Richard Pipkin

ARTICLE XX – CONSTRUCTION OF AGREEMENT: Both parties have participated in preparing this Agreement. This Agreement shall be construed reasonably and not in favor of or against either party hereto on the grounds that one party prepared this Agreement.

ARTICLE XXI – ENTIRE AGREEMENT: This Agreement, including the Exhibits which are hereby incorporated by reference, contains the entire Agreement between the parties hereto. No oral understandings, statements, promises or inducements contrary to the terms of this Agreement exist. Any amendment hereof, including any oral modification allegedly supported by new consideration, shall not be effective unless reduced to a writing signed by both parties.

ARTICLE XXII – APPLICABLE LAW: This Agreement shall be governed by and construed and enforced in accordance with and subject to the laws of the State of California. Any lawsuit related to this Agreement shall be commenced and prosecuted in the County of Alameda, State of California.

ARTICLE XXIII – AUTHORIZED SIGNATURE: The individuals whose names are subscribed to this Agreement represent that they are authorized to act on behalf of the party for whom they sign.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be duly executed in two counterparts by their proper officers first thereunto duly authorized the day and year set out below.

Dated:

ALAMEDA COUNTY WATER DISTRICT

By: _____
James G. Gunther, President

Attest:

Marian Hsu, District Secretary

Dated:

UNION SANITARY DISTRICT

By: _____
Paul R. Eldredge, General Manager

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy



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

Karen W. Murphy
Attorney

MAY 28, 2024
BOARD OF DIRECTORS MEETING
AGENDA ITEM #9

TITLE: **Authorize the General Manager to Execute Two Contract Change Orders with Zovich Regarding Construction of the New ACWD Water Main for the Enhanced Treatment and Site Upgrade Program Phase 1A Campus Building Project *(to be reviewed by the Engineering and Information Technology Committee) (Motion Item)***

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

Recommendation

Staff recommends the Board authorize the General Manager to execute contract change orders No. 13 and 14 with Zovich construction (Zovich) in the amount of \$119,026.26 and \$307,514.97, respectively for additional costs associated with the ACWD water main replacement and relocation for the Enhanced Treatment and Site Upgrade Program Phase 1A Campus Building Project (Project).

Discussion

The Project includes the relocation of the existing ACWD water main that runs through the treatment plant site. The relocation is needed to facilitate the construction of new clarifiers in the ETSU Phase 1B Project.

In August 2021 USD staff began the waterline relocation planning with ACWD staff. In April 2022 just before the Campus project was advertised for bid, ACWD provided preliminary feedback on the plans so the bid could proceed with the understanding they would have more detailed comments on the final design.

USD staff have since finalized the plans with ACWD and requested a cost estimate from Zovich for the changes since the final plans are different than what Zovich had originally bid on. Staff and Zovich have negotiated the additional costs per the proposed Change Order No. 13 in the amount of \$119,026.26. The main cost drivers in this change are due to a portion of the new piping being deeper than originally planned and changing a portion of piping to steel pipe materials versus a plastic pipe material to facilitate existing utility crossings. ACWD required these changes to meet applicable code requirements for the new water line.

The existing water main is an old brittle pipe material that can be subject to cracking or failure when

the ground around the pipe is disturbed. The ETSU program is proposing several new utility crossings around this existing pipe which increases the potential for a pipe failure. Staff believes there are benefits to both Districts in replacing the entirety of the existing water main now to improve reliability and prevent future operational disruptions.

USD staff have negotiated an agreement with ACWD staff to evenly share the costs of replacing the rest of the existing water main piping on the plant site. ACWD and USD staff have agreed that it is mutually beneficial to replace the existing water main that runs through the USD site to Veasy Street with the replacement costs being shared between ACWD and USD.

Staff and Zovich have negotiated the additional costs to replace the remainder of the existing water main pipe on-site in the proposed Change Order No. 14 in the amount of \$307,514.97. It includes the replacement of approximately 230 feet of existing 6” diameter water main pipe.

These change orders will bring the total change orders executed to date on this project to \$337,850.16, or 0.4% of the contract amount. A summary of the change orders to date can be found in the attached Table 1. Staff recommends proceeding with the change orders.

Background

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

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

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

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

The full version of the ETSU Program report, including appendices, can be found at the District's website.

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

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

Previous Board Action

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

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

August 22, 2022 the Board authorized the General Manager to Execute Contract Change Order No. 1 with Zovich Construction for the Enhanced Treatment and Site Upgrade Program Phase 1A Campus Building Project

September 12, 2022 the Board authorized the General Manager to Execute certain Documents with Zovich Construction and the Bay Area Air Quality Management District for the Clean Air Charge! Program and the Enhanced Treatment and Site Upgrade Program Phase 1A Campus Building Project. These documents included Change Orders Nos. 2 and 3

November 13, 2023 the Board authorized the General Manager to execute contract change order No. 08 with Zovich construction in the amount of \$ 211,685.00 for additional costs associated with off haul of soil for the Enhanced Treatment and Site Upgrade Program Phase 1A Campus Building Project

Attachments

1. Exhibit A ACWD Main Overview
2. Table 1 Campus CCO Summary
3. CCO #013 - ACWD 12-Inch Water Main Modifications
4. CCO #014 - Remove Replace Existing 6-Inch Water Main

Exhibit A:
ETSU Phase 1A: Campus Building Project
ACWD Water Mains

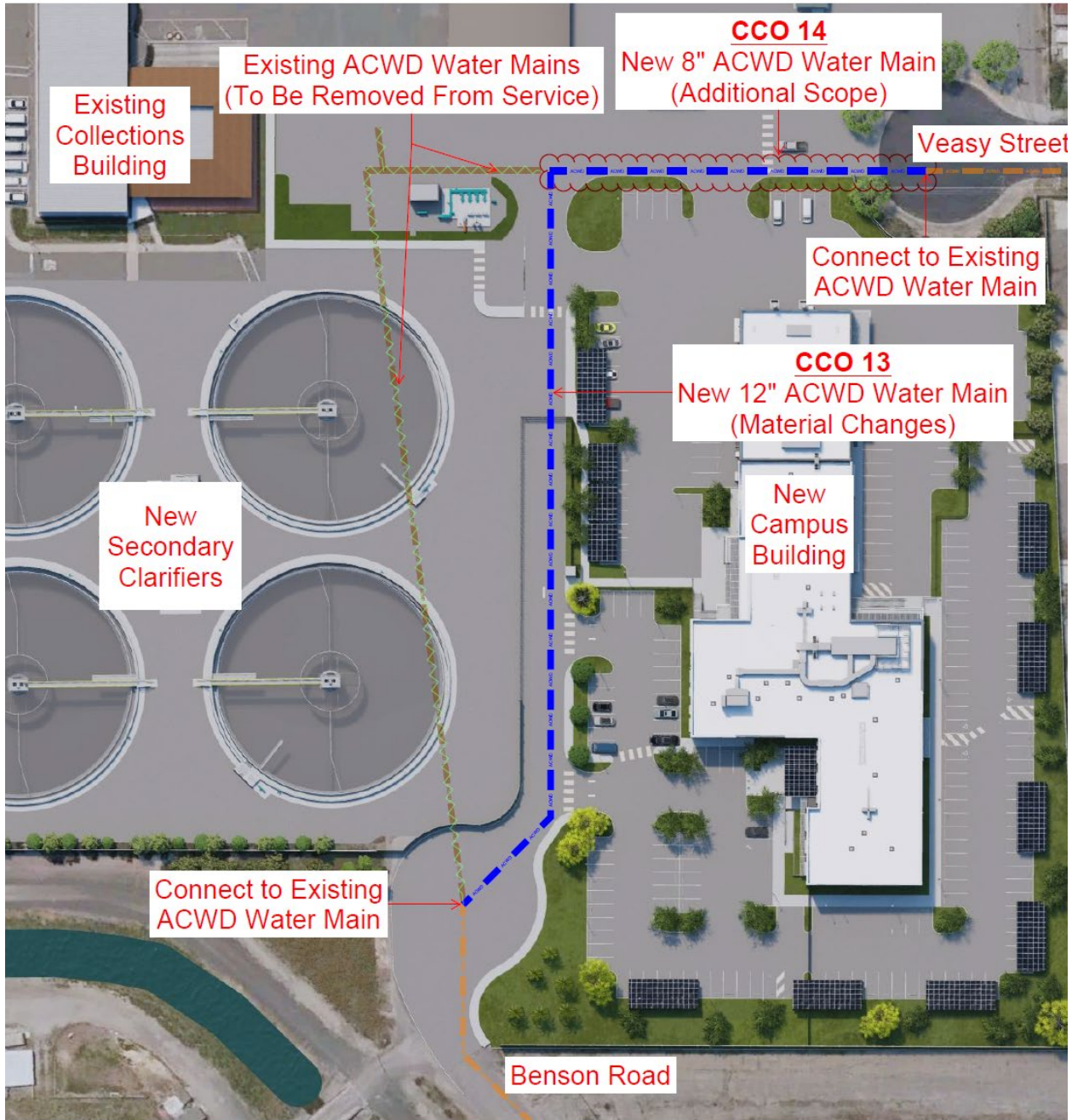


TABLE 1
ETSU PHASE 1A CAMPUS PROJECT
EXECUTED CHANGE ORDER SUMMARY
MAY 28, 2024

No.	Status	Contract Change Order Title	Cost of Change
1	Executed	Flood Insurance Coverage Reduction	\$(326,655.75)
2	Executed	Delete EV Charging Stations & Building Main Entrance PV System	\$(250,000.00)
3	Executed	Add the Union Sanitary District's Electric Vehicle Charging Station Project	\$250,000.00
4	Executed	Existing Irrigation Main Modification	\$1,189.91
5	Executed	Modifications to new Medium Voltage Transformers	\$12,003.66
6	Executed	Additional Corner Rebar for CMU Walls – Trash & Generator Enclosure	\$410.00
7	Executed	SDPS Relocation Survey Services	\$2,645.00
8	Executed Unilaterally	Off Haul and Disposal of Class I Soil – Stockpile D- (Unilateral)	\$211,685.00
9	Executed	Relocated Knack Box in Overflow Parking	\$5,080.00
10	Executed	Add Seismic Emergency Shut Off Valves at Building Riser	\$2,080.21
11	Executed	Structural Steel Framing Revisions at North Canopy	\$2,091.66
12	Executed	Roof Hatch Size Revisions	\$779.24
13	Proposed	ACWD Water Main Design Revisions	\$119,026.26
14	Proposed	Replacement of Remainder of ACWD Water Main	\$ 307,514.97
Total			\$337,850.16

CONTRACT CHANGE ORDER No. 013

ETSU Phase 1A – Campus Building Project

Item: ACWD New 12-Inch Water Main Modifications.

Contractor is hereby directed to make the herein described changes from the plans and specifications or do the following work not included in the plans and specifications of this contract or comply with the terms and obligations of this Contract Change Order. All new work herein described shall be done in accordance with the applicable provisions of the plans and specifications, except as specifically modified by this Contract Change Order (CCO).

DESCRIPTION OF CHANGE: The Contractor shall provide all labor, material, equipment, and incidentals necessary to lower the elevations of approximately 200LF of 12-inch water main; provide additional shoring; install air valve; install an additional three gate valves; and increase the steel pipe quantities while reducing the polyvinyl pipe quantities to modify the originally designed 12-inch water main as outlined in attached Design Clarification Memo (DCM#006). The original Contract documents did not adequately meet all ACWD requirements for the 12-inch water main.

COST OF CHANGE: \$ 119,026.26

CONTRACT TIME AJUSTMENT: No agreement is made at the time of execution of this change order regarding a contract time extension due to this change.

We, the undersigned Contractor, have given careful consideration to all aspects of the change proposed and hereby agree. This Contract Change Order constitutes full and complete compensation for all labor, equipment, materials, overhead, profit, any and all indirect costs and time adjustment, including any delay and rescheduling, required to perform the above-described change and will accept this Contract Change Order as full and final payment.

This document supplements the Contract Documents, and all provisions of the Contract Documents will apply thereto. It is understood that the Contract Change Order shall be effective when fully executed by the District. _____

ACCEPTED:

Zovich Construction Co.

Contractor:

By: _____
Ante Zovich Jr.

Date: _____

RECOMMENDED FOR ACCEPTANCE:

Psomas / Vanir

Construction Manager:

By: _____
Inskip James, P.E, CCM

Date: _____

Union Sanitary District

ETSU Assistant Program Manager:

By: _____
Gus Carrillo, P.E.

Date: _____

Union Sanitary District

ETSU Program Manager:

By: _____
Ric Pipkin, P.E.

Date: _____

APPROVAL:

The Contractor shall not commence with the above-described work of this change order prior to the approval by the District's Authorized Representative.

Union Sanitary District

Authorized Representative:

By: _____
Paul R. Eldredge, P.E.
General Manager/District Engineer

Date: _____

CONTRACT CHANGE ORDER No. 014

ETSU Phase 1A – Campus Building Project

Item: Remove and Replace Existing ACWD 6-Inch Water Main in Center Road.

Contractor is hereby directed to make the herein described changes from the plans and specifications or do the following work not included in the plans and specifications of this contract or comply with the terms and obligations of this Contract Change Order. All new work herein described shall be done in accordance with the applicable provisions of the plans and specifications, except as specifically modified by this Contract Change Order (CCO).

DESCRIPTION OF CHANGE: The Contractor shall provide all labor, material, equipment, and incidentals necessary to remove and dispose of approximately 230LF of existing 6-inch asbestos containing pipe (ACP) extending from the new 12-inch water main location at Center Road to new gate valve location in Veasy Cul-De-Sac. The Contractor shall install in its place a new 8-inch water main. The new 8-inch main shall be a section of steel pipe where the main is installed beneath an existing storm drain pipe with the remaining section being polyvinyl pipe (PVC) as outlined in attached Design Clarification Memo (DCM#006).

COST OF CHANGE: \$ 307,514.97

CONTRACT TIME AJUSTMENT: No agreement is made at the time of execution of this change order regarding a contract time extension due to this change.

We, the undersigned Contractor, have given careful consideration to all aspects of the change proposed and hereby agree. This Contract Change Order constitutes full and complete compensation for all labor, equipment, materials, overhead, profit, any and all indirect costs and time adjustment, including any delay and rescheduling, required to perform the above-described change and will accept this Contract Change Order as full and final payment.

This document supplements the Contract Documents, and all provisions of the Contract Documents will apply thereto. It is understood that the Contract Change Order shall be effective when fully executed by the District. _____

ACCEPTED:

Zovich Construction Co.

Contractor:

By: _____
Ante Zovich Jr.

Date: _____

RECOMMENDED FOR ACCEPTANCE:

Psomas / Vanir

Construction Manager:

By: _____
Inskip James, P.E, CCM

Date: _____

Union Sanitary District

ETSU Assistant Program Manager:

By: _____
Gus Carrillo, P.E.

Date: _____

Union Sanitary District

ETSU Program Manager:

By: _____
Ric Pipkin, P.E.

Date: _____

APPROVAL:

The Contractor shall not commence with the above-described work of this change order prior to the approval by the District's Authorized Representative.

Union Sanitary District
Authorized Representative:

By: _____
Paul R. Eldredge, P.E.
General Manager/District Engineer

Date: _____

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy



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

Karen W. Murphy
Attorney

**MAY 28, 2024
BOARD OF DIRECTORS MEETING
AGENDA ITEM #10**

TITLE: **Consider and Approve a Resolution Approving and Authorizing Execution of Two Real Property Purchase Contracts to Acquire a Fee Parcel and Two Temporary Construction Easements from Alameda County Flood Control & Water Conservation District *(to be reviewed by the Budget & Finance Committee) (Motion Item)***

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

Recommendation

Staff recommends the Board consider and approve a resolution approving and authorizing execution of two real property purchase contracts to acquire a fee parcel and two temporary construction easements from Alameda County Flood Control & Water Conservation District (Flood Control) for a combined purchase price of \$40,200.00.

Discussion

The Enhanced Treatment and Site Upgrade Phase 1B Project (Project) includes construction of new secondary clarifiers and effluent facilities, and the relocation of the existing effluent force main pipeline to the East Bay Discharger’s Authority. The Project includes extensive work along the eastern property line of the District’s Alvarado Wastewater Treatment Plant (Plant) shared with Flood Control. The point of connection of the relocated effluent pipeline is just outside the existing property line of the Plant within an existing easement on land currently owned by Flood Control.

The future operation and maintenance of the effluent force main will be simplified by incorporating the new point of connection into the Plant site, which requires the purchase of a small parcel in fee title. A temporary construction access easement along the eastern perimeter of the Plant will create access during construction of the new facilities.

Purchase Process

Staff began negotiating with Flood Control staff in June 2021. The negotiated purchase prices and sizes of the fee parcel and temporary construction easements are shown in the below table (an exhibit showing the location of the property is attached):

Description	Size	Cost
Fee Parcel	8,892 SF	\$28,000
Temporary Construction easements (until 12/31/2030)	18,989 SF	\$12,200

Staff believes it is a benefit to the District and ETSU program to procure the land and easements.

On March 12, 2024, the Alameda County Board of Supervisors, sitting as the Flood Control Board, found the fee parcel to be exempt surplus property and conditionally approved the conveyance of the parcel to USD. The approval is contingent on at least a 30-day review by the California Department of Housing and Community Development (CA HCD) regarding the exempt surplus findings. The 30-day period has since elapsed with no notice of violation from CA HCD. The Flood Control Board also approved the conveyance of the temporary construction easements and delegated authority to the Agency Director to execute a purchase agreement and required documents to convey the above real property interests to USD.

Staff anticipates advertising the construction of the Project for bid in late 2024. Finalizing these property purchases will ensure that the bid documents accurately reflect the fee property and temporary construction easements that will be necessary for the Project.

Background

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

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

Phase 1A	Aeration Basin Modifications	Retrofitting existing Aeration Basins 1 through 7 and construction of an 8 th aeration basin with the flexibility to operate initially with an anaerobic selector during the implementation phase and transitioning to a biological nutrient removal (BNR) process following completion.
Phase 1A	Campus Building	Construction of a new combined Campus Building,

	(Admin, FMC, Ops)	including associated site and utility improvements.
Phase 1B	Secondary Clarifiers	Construction of four new 160-foot diameter secondary clarifiers, mixed liquor control box, and centralized RAS pump station.
Phase 1B	Effluent Facilities	Construction of new chlorination/dechlorination contact basins, effluent pump stations, and relocation of existing effluent force main.
Phase 1C	Plant Equalization Storage	Retrofitting existing Secondary Clarifiers 1 through 4 to operate as primary effluent equalization basins.

The full version of the ETSU Program report, including appendices, can be found at the District's website.

ETSU Phase 1B Project

Staff developed a Phase 1B Project scope which includes the Secondary Clarifiers and Effluent Facilities. The major scope items for the Project are as follows:

- Demolition of the existing Administration, RAS Pump Station, Control Box 4, Calcium Thiosulfate Tank, and Control Buildings including all associated appurtenances.
- Construct four new 160-foot secondary clarifiers in the footprint of the existing administration and control buildings. Each Secondary clarifier includes a dedicated scum pump station.
- Construction of a new Return Activated Sludge (RAS) and Waste Activated Sludge (WAS) Pump Station to provide sludge pumping for the proposed secondary clarifiers. Pump Station includes six RAS pumps with room for two future pumps, four WAS pumps and all associated piping and appurtenances.
- Relocation of the existing East Bay Discharger's Authority (EBDA) Force Main including new magnetic flow meter and tie-in to the existing force main. Work will include temporary facilities.
- Replacement of Sodium Hypochlorite and Polymer Distribution Piping including temporary piping to maintain service through the project.
- Installation of new electrical switchboards and associated distribution equipment in a proposed Electrical Distribution Facility, including ductbanks connecting to existing facilities.
- Construction of chlorination/dechlorination contact basins, effluent pump station, and Old Alameda Creek pump station.
- Modifications to the existing plant control system for control of the new facilities described.

Previous Board Action

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

January 11, 2021, the Board authorized the General Manager to execute an Agreement with Hazen and Sawyer for design services for the Enhanced Treatment and Site Upgrade Phase 1B and 1C Projects and Task Order No. 1 for design of the ETSU Phase 1B Project in the amount of \$7,960,952.

October 9, 2023, the Board authorized the General Manager to execute an Agreement and Task Order No. 1 with Psomas for construction management services for the Enhanced Treatment and Site Upgrade (ETSU) Phase 1B Project in the amount of \$12,263,927.

Attachments

1. Resolution - ACFCO Property
2. Combined Agreement Package 2024-05-21

RESOLUTION NO. _____

A RESOLUTION OF THE BOARD OF DIRECTORS APPROVING AND AUTHORIZING EXECUTION OF TWO REAL PROPERTY PURCHASE CONTRACTS TO ACQUIRE A FEE PARCEL AND TWO TEMPORARY CONSTRUCTION EASEMENTS FROM ALAMEDA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT

WHEREAS, the Enhanced Treatment and Site Upgrade (ETSU) Program is the culmination of the District's planning efforts and includes projects recommended for implementation that will be phased to address both immediate drivers (poor sludge settleability, treatment capacity, effluent disposal and aging infrastructure), while preparing for future requirements such as nutrient regulations for discharge in the Bay that are currently being considered by the Regional Water Quality Control Board; and

WHEREAS, the ETSU Phase 1A projects, Aeration Basin Modifications and Campus Building, are currently under construction and the District is preparing to move forward with the Phase 1B project, Secondary Clarifiers and Effluent Facilities; and

WHEREAS, implementation of the Phase 1B project requires the acquisition of certain fee property and two temporary construction easements from Alameda County Flood Control & Water Conservation District ("Flood Control") to accommodate construction access for the installation of new facilities along the eastern edge of the project site and permanent access to the rerouted effluent forcemain pipeline for the existing facility. and

WHEREAS, District and Flood Control staff have negotiated the terms of the acquisitions in two Real Property Purchase Contracts: (1) an agreement for the purchase of an approximately 8,892 square foot fee parcel ("Fee Parcel") for \$28,000.00, and a temporary construction easement for \$7,100.00; and (2) an agreement for the purchase of a temporary construction easement for \$5,100.00, for a combined purchase price \$40,200.00 for the fee parcel and two temporary construction easements; and

WHEREAS, the County Board of Supervisors declared the Fee Parcel as surplus real property and approved the sale at its March 12, 2024, Board meeting.

NOW, THEREFORE, BE IT RESOLVED BY THE UNION SANITARY DISTRICT BOARD OF DIRECTORS, AS FOLLOWS:

1. The Real Property Purchase Contracts authorizing the acquisition of the Fee Parcel and two temporary construction easements for a combined purchase price of \$40,200.00 are hereby approved. The General Manager or ETSU Program Manager are hereby authorized to execute the Real Property Purchase Contracts in the forms attached to the staff report, subject to minor revisions or amendments that may be approved by the General Manager in consultation with the General Counsel.

2. The General Manager, ETSU Program Manager or their designee, in consultation with the General Counsel, is hereby authorized to take any and all actions and execute any and all documents, including accepting interests in real property, necessary to effectuate the terms and conditions of the Real Property Purchase Contracts.

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

AYES:

NOES:

ABSENT:

ABSTAIN:

President, Board of Directors
UNION SANITARY DISTRICT

Attest:

Secretary, Board of Directors
UNION SANITARY DISTRICT

UNION SANITARY DISTRICT

_____, 2024

Alameda County Flood Control &
Water Conservation District

GRANTOR

REAL PROPERTY PURCHASE CONTRACT

UNION SANITARY DISTRICT

Assessor's Parcel No. 428-40-13-7 (Por.)

This document Nos. RW Desc. No. 8462 (RF-2306) and 2306-A in the form of a **Fee Parcel Acquisition and Temporary Construction Easement (TCE)** covering the property particularly described in Clauses 3 and 4 below has been executed and delivered to Paul Eldredge General Manager and District Engineer, Union Sanitary District's (GRANTEE) Representative.

In consideration of which, and the other considerations hereinafter set forth, it is mutually agreed as follows:

1. The parties have herein set forth the whole of their agreement. The performance of this agreement constitutes the entire consideration for said document and shall relieve the GRANTEE of all further obligation or claims on this account, or on account of the location, grade, or construction of the proposed improvement.
2. The GRANTEE shall pay the undersigned GRANTOR the sum of twenty eight thousand dollars (\$28,000.00) for the fee parcel acquisition described in Clause 3 and seven thousand, one hundred dollars, (\$7,100.00) for the TCE (TCE) described in Clause 4 .
3. Grantee shall permanently acquire an 8,891.22 square foot parcel of land owned by GRANTOR, as described in the legal description attached to as Exhibit "A" and "B" labeled as RW Desc. No. 8462 (RF-2306) (the "Triangular Property").
4. Permission is hereby granted to the GRANTEE, its authorized agent, or contractor(s) to enter upon GRANTOR's land where necessary within that certain area labeled as parcels RF-2306-A on the map marked Exhibit "C" attached hereto and made a part hereof, for the purpose of staging and overhead access to the Grantee existing property adjacent to the TCE. The TCE shall begin on May 1, 2024 and expire on **December 31, 2030.**
5. The parties to this contract shall, pursuant to Section 21.7(a) of Title 49, Code of Federal Regulations, comply with all elements of Title VI of the Civil Rights Act of 1964.

Further, no person in the United States shall, on the grounds of race, color, sex or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity that is the subject of this contract.

6. It is agreed and confirmed by the parties hereto that notwithstanding other provisions in this contract, the right of possession and use of the subject property by the GRANTEE, shall commence on the date the amount of funds as specified in Clause 2 herein are paid to the GRANTOR. The amount shown in Clause 2 herein includes, but is not limited to, full payment for such possession and use, from said date.
7. The undersigned GRANTOR warrants that they are the owner in fee simple of the property affected by this agreement as described in Clauses 3 and 4 above and that they have the exclusive right to grant the property rights.
8. GRANTEE agrees to indemnify and hold harmless GRANTOR from any liability arising out of GRANTEE's operations under this agreement. GRANTEE further agrees to assume responsibility for any damages proximately caused by reason of GRANTEE's operations under this agreement and GRANTEE will, at its option, either repair or pay for such damage.
9. All work done under the TCE shall conform to all applicable building, fire and sanitary laws, ordinances, and regulations relating to such work, and shall be done in a good and workmanlike manner. All structures, improvements, or other facilities, such as fencing and gates, when removed, and relocated, or reconstructed by the GRANTEE, shall be left in as good or better condition as found.
10. In case of unpredictable delays in construction, upon written notification, the terms of the TCE may be extended by an amendment to this Right of Way contract. Grantor shall be compensated based on the fair market value at the time of the extension. Payment shall be made to the Grantor for the extension prior to the expiration of the original period.
11. GRANTOR warrants that there are no oral or written leases on portions of the property Grantee is acquiring in Fee and TCE.
12. This Right of Way Contract shall be binding upon and inure to the benefit of the heirs, devisees, executors, administrators, legal representatives, successors and assigns of the GRANTOR.
13. In lieu of recordation of a TCE deed, GRANTOR agrees to fully disclose the existence of the TCE, and the GRANTEE's compensation to any and all potential buyers in the event the GRANTOR should choose to sell the above described parcel during the term of the Easement or after the acceptance of this contract.

14. Both GRANTOR and GRANTEE represent and warrant that the signatories to this Agreement are authorized to enter into this Agreement and that no other authorizations are required to implement this Agreement on their behalf.
15. In consideration of the terms in this Agreement, within thirty calendar days of the Effective Date, GRANTOR shall deliver to Grantee, an executed and acknowledged Grant Deed conveying the Triangular Property ("Grant Deed") in a form suitable for recordation, in the forms attached hereto as Exhibit D. A Certificate of Acceptance shall be executed and acknowledged by Grantee and recorded concurrently with the Grant Deed.
16. GRANTEE shall record the Grant Deed upon the earlier of: (a) written or verbal acknowledgement by GRANTOR that the Purchase Price has been received; or (b) five calendar days after GRANTEE's mailing or delivery of the Purchase Price to GRANTOR. GRANTEE shall provide GRANTOR with conformed copies of the Grant Deed.
17. No Taxes. No transfer tax shall be due because both parties are public entities.
18. This Right of Way Contract and any subsequent amendments may be executed in any number of counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.
19. Upon the construction contract award, the GRANTEE's contractor shall apply for an Encroachment Permit to access the TCE from the Alameda County Public Works Agency at 399 Elmhurst Street, Room 141 Hayward, CA 94544, and pay any fees as required, including but not limited to inspection fees.
20. The GRANTOR hereby represents and warrants that during the period of GRANTOR's ownership of the property that GRANTOR has no knowledge of any disposals, releases or threatened releases of hazardous substances or hazardous waste on, from, or under the property. GRANTOR further represents and warrants that GRANTOR has no knowledge of any disposal, release, or threatened release of hazardous substances or hazardous waste on, from, or under the property which may have occurred prior to GRANTOR taking title to the property.

The acquisition price of the property being acquired in this transaction reflects the fair market value of the property without the presence of contamination. If the property being acquired is found to be contaminated by the presence of hazardous waste which requires mitigation under Federal or GRANTEE law, the GRANTEE may elect to recover its clean-up costs from those who caused or contributed to the contamination.

In Witness Whereof, the Parties have executed this agreement the day and year first above written.

RECOMMENDED FOR APPROVAL:

By: _____
Michael Tadesse
Acting Supervising Right of Way Agent

GRANTOR

ALAMEDA COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

DANIEL WOLDESENBET, Ph.D., P.E.
Director of Public Works Agency

APPROVED AS TO FORM:
Donna R. Ziegler, County Counsel

By: _____
Kathy Lee
Deputy County Counsel

RECOMMENDED FOR APPROVAL:

Union Sanitary District

By: _____
PAUL R. ELDREDGE
General Manager/District Engineer

Date: _____

No Obligation Other Than Those Set Forth Herein Will Be Recognized

GRANT OF TEMPORARY CONSTRUCTION EASEMENT - EXHIBIT C



OVERALL SITE PLAN
T-802

PRELIMINARY DRAWING DO NOT USE FOR CONSTRUCTION

REV	ISSUED FOR	DATE	BY

PROJECT DESIGNER: A. BRIGGS
 DESIGNED BY: HAZEN
 DRAWN BY: HAZEN
 CHECKED BY: HAZEN
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE



ENHANCED TREATMENT AND SITE UPGRADE PROGRAM
 PHASE 1B PROJECT

EXHIBIT A
 TEMPORARY CONSTRUCTION EASEMENT MAP
 RF-2306 AND RF-2306-A

DATE	2021
HAZEN NO.	20118-004
CONTRACT NO.	1
DRAWING NUMBER	M32
SHEET NUMBER	

This document is exempt from payment of a recording fee pursuant to California Government Code Section 27383

RECORDING REQUESTED BY AND WHEN RECORDED RETURN TO:

**Union Sanitary District
5072 Benson Road
Union City, CA 94587
Attn: Board Clerk**

APN: _____

(Space Above for Recorder's Use)

GRANT DEED

FOR VALUABLE CONSIDERATION, the receipt and the sufficiency of which is hereby acknowledged, ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT ("Grantor"), hereby grants and conveys to UNION SANITARY DISTRICT, a California sanitary district ("Grantee"), all of Grantor's interests in and to real property situated in the City of Union City, County of Alameda, State of California, described in Exhibit A and Exhibit B to this Grant Deed.

Dated as of: _____, 2024

GRANTOR:

ALAMEDA COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

By: _____

Daniel Woldesenbet, Ph.D., P.E.

Director of Public Works Agency

SIGNATURE MUST BE NOTARIZED.

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
)
County of _____)

On _____, before me, _____ a Notary Public, personally appeared _____ who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct

WITNESS my hand and official seal.

Signature of Notary

(Affix seal here)

EXHIBIT A
Legal Description

[to be inserted]

EXHIBIT "A"
**ALAMEDA COUNTY FLOOD CONTROL AND
WATER CONSERVATION DISTRICT DESCRIPTION
ZONE 3A LINE A**

MAP: RF-2306
APN: 482-0040-013-07 (Por.)

Desc. No. 8462
Date: June 14, 2022

ACQUISITION DESCRIPTION

That certain real property situate in the City of Union City, Alameda County, State of California, described as follows:

Being a portion of land described in the deed to Alameda County Flood Control and Water Conservation District recorded in Reel 3717 of Official Records at image 750 thereof (74-84660) on June 28, 1974, Alameda County Records, more particularly described as follows:

COMMENCING at the southeastern most corner of Parcel 1 as said parcel is shown on that certain map entitled "Parcel Map No. 7411", recorded on August 4, 2003 in Book 272 of Parcel Maps at pages 18-20, Alameda County Records, thence along the easterly line of said Parcel 1, North 00° 57' 31" East 1224.93 feet to the **TRUE POINT OF BEGINNING**; thence continuing along said easterly line of Parcel 1, North 00° 57' 31" East 132.21 feet to the southerly line of Benson Road as shown on said Parcel Map; thence along said southerly lines the following two (2) courses:

- 1) North 88° 18' 31" East 84.15 feet;
- 2) thence North 78° 42' 01" East 52.51 feet;

thence leaving last said line, the following three (3) courses:

- 1) South 36° 22' 02" East 2.37 feet;
- 2) thence South 43° 47' 34" West 104.91 feet;
- 3) thence South 44° 41' 53" West 94.71 feet,

to the said easterly line of Parcel 1, said point also being the **TRUE POINT OF BEGINNING**, containing 0.20 acres (8,892 square feet), more or less.

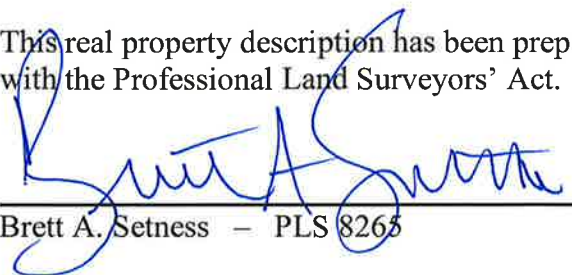
SUBJECT TO special assessments, if any, restrictions, reservations and easements of record.

The bearings and distances shown hereon are based on the said easterly line of Parcel 1, being "S 00° 57' 31" W 1357.14'" of the entitled "Parcel Map No. 7411".

End of Description.

A plat of the above-described property is attached as Exhibit "B" hereto and by this reference made a part thereof. The above description is not valid without said plat.

This real property description has been prepared by me, or under my direction, in conformance with the Professional Land Surveyors' Act.


Brett A. Setness - PLS 8265

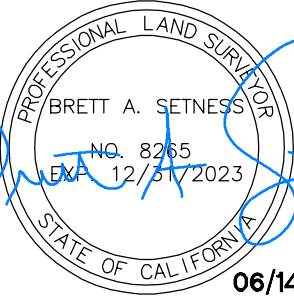
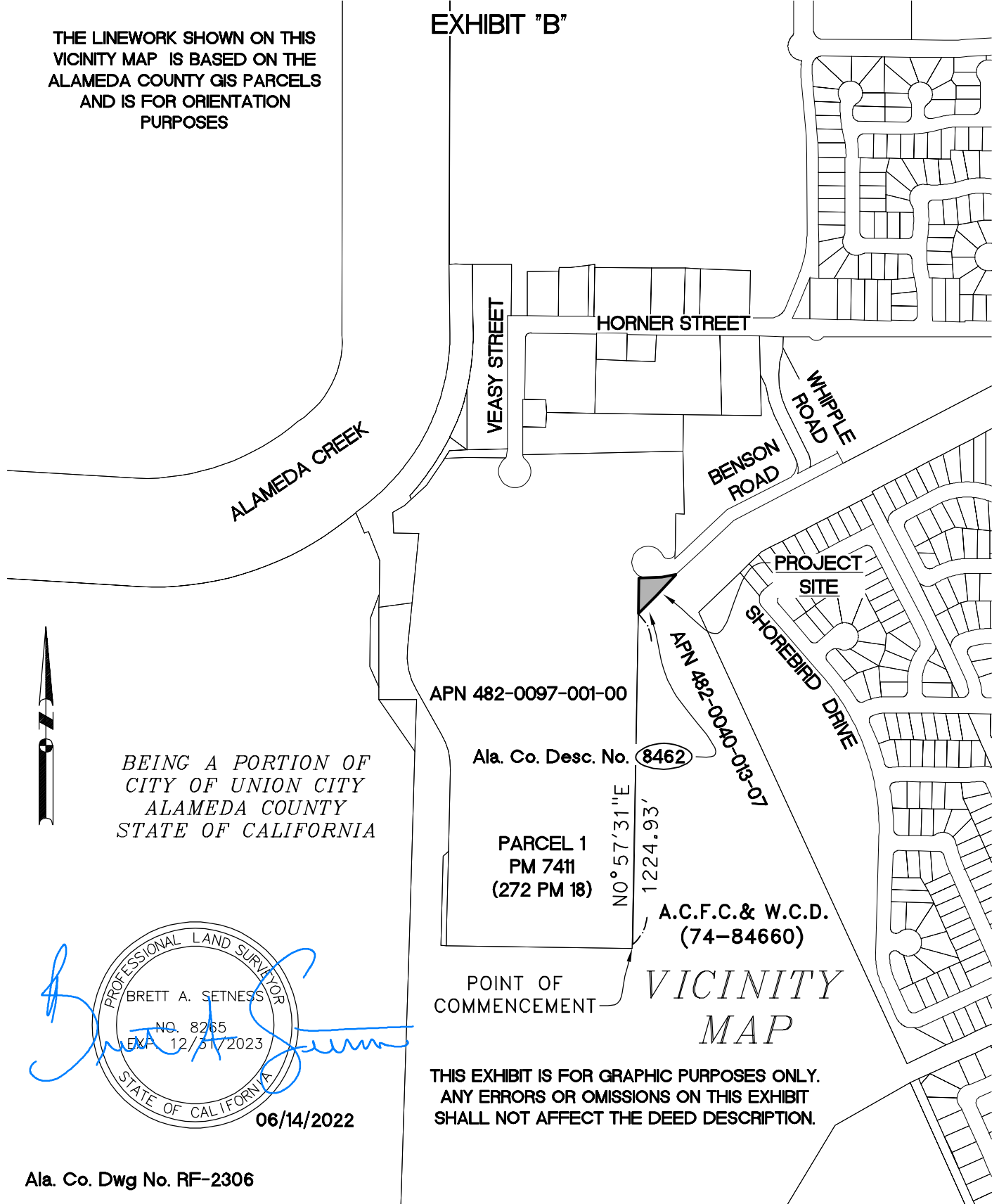


USD Acquisition Description from ACFC&WDC - June 2022

Page 1 of 1

THE LINEWORK SHOWN ON THIS VICINITY MAP IS BASED ON THE ALAMEDA COUNTY GIS PARCELS AND IS FOR ORIENTATION PURPOSES

EXHIBIT "B"



06/14/2022

Ala. Co. Dwg No. RF-2306

THIS EXHIBIT IS FOR GRAPHIC PURPOSES ONLY.
ANY ERRORS OR OMISSIONS ON THIS EXHIBIT
SHALL NOT AFFECT THE DEED DESCRIPTION.

FILE SPEC: P:\2378_Union_Sanitary_District\0040_ETSU_Phase_1B\07_Survey\400_Boundary\020_Preliminary\USD_Aquisition_Package\EPL - Aquisition Exhibit Record Update.dwg
PLOT DATE: Jun 14, 2022 - 9:36am

KSN inc.
KJELDEN SINNOCK NEUDECK
 CIVIL ENGINEERS & LAND SURVEYORS
 www.ksninc.com

711 N. Pershing Avenue
 Stockton, CA 95203
 209-946-0268

1550 Harbor Blvd., Suite 212
 West Sacramento, CA 95691
 916-403-5900

UNION SANITARY DISTRICT
 UNION CITY, CALIFORNIA
 ALAMEDA COUNTY

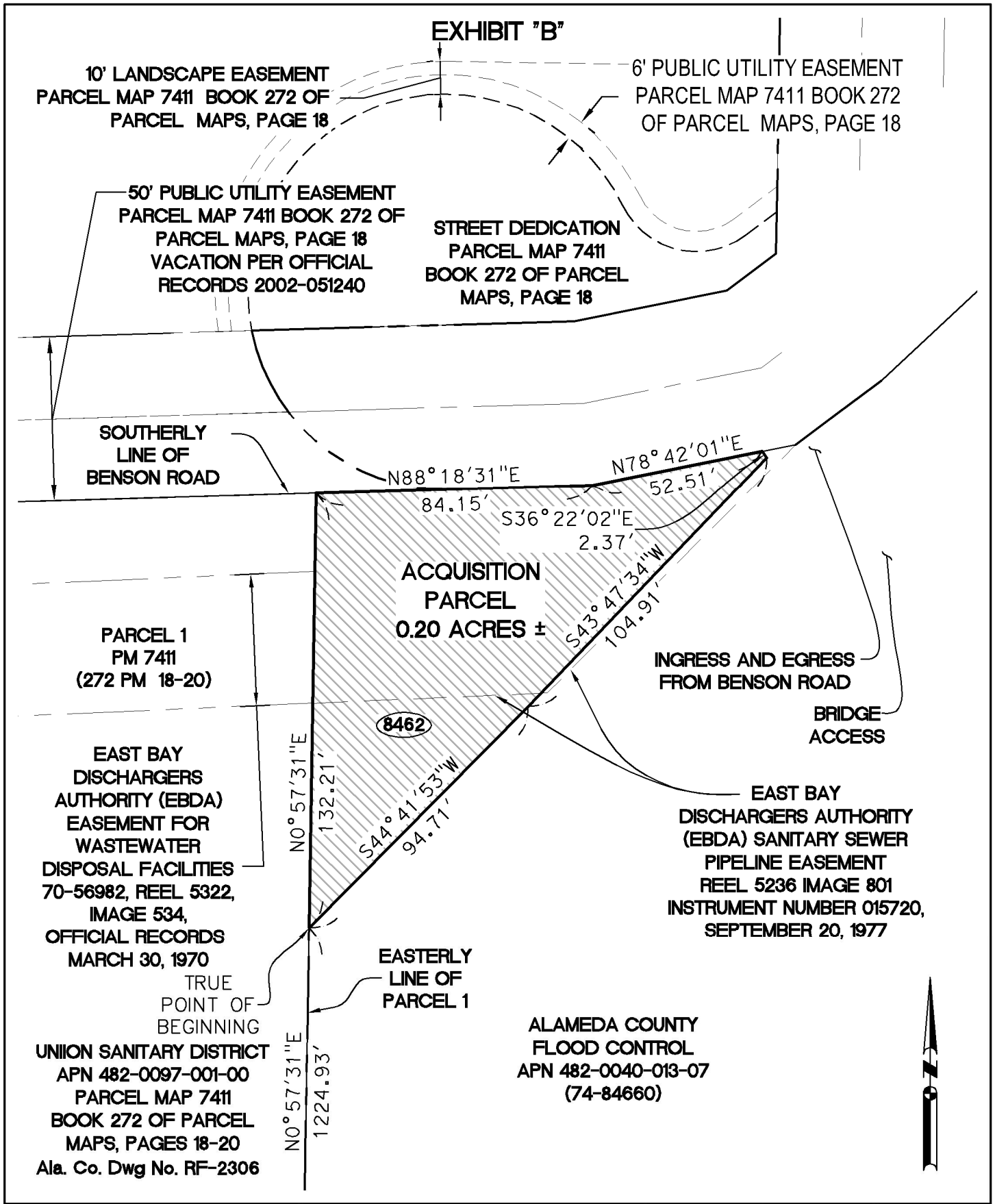
APN 482-0040-013-07
 ACQUISITION DESCRIPTION
 FOR ACFC & WCD FLOOD CONTROL

DESIGN BY	BAS
DRAWN BY	BAS
CHECK BY	KFN
HORIZONTAL DATUM	CCS83, ZONE 3
VERTICAL DATUM	N/A

DRAWING SCALE	1" = 50'
ORIG. DRAWING SCALE	0 1/4" 1/2"

DATE	JUNE 2022
SHEET IDENTIFICATION	SHEET 1 OF 2 KSN PROJECT FILE NO. 2378-0040 02-001

FILE SPEC: P:\2378_Union_Sanitary_District\0040_ETSU_Phase_1B\07_Survey\400_Boundary\020_Preliminary\USD_Acquisition_Package\EPL - Acquisition Exhibit Record Update.dwg
 PLOT DATE: Jun 14, 2022 - 9:57am



KSN inc. **KJELDEN SINNOCK NEUDECK**
 CIVIL ENGINEERS & LAND SURVEYORS
 www.ksninc.com

711 N. Pershing Avenue
 Stockton, CA 95203
 209-946-0268

1550 Harbor Blvd., Suite 212
 West Sacramento, CA 95691
 916-403-5900

UNION SANITARY DISTRICT
 UNION CITY, CALIFORNIA
 ALAMEDA COUNTY

APN 482-0040-013-07
ACQUISITION DESCRIPTION
 FROM ACFC & WCD FLOOD CONTROL

DESIGN BY BAS
 DRAWN BY BAS
 CHECK BY KFN

HORIZONTAL DATUM
 CCS83, ZONE 3

VERTICAL DATUM
 N/A

DRAWING SCALE
 1" = 40'

ORIG. DRAWING SCALE
 0 1/4" 1/2"

DATE
 JUNE 2022

SHEET IDENTIFICATION

SHEET 2 OF 2

KSN PROJECT FILE NO.
 2378-0040 02-001

Parcel name: Union Sanitary District Acquisition from Alameda County Flood Control and Water Conservation District - Flood Control - 0.20 Acres ± - Point of Commencement

North: 2040903.89' East: 6101361.56'
 Segment #1 : Line
 Course: North 00° 57' 31" East Length: 1224.93'
 North: 2042128.64' East: 6101382.05'

Parcel name: Union Sanitary District Acquisition from Alameda County Flood Control and Water Conservation District - Flood Control - 0.20 Acres ± - Point of Beginning

North: 2042128.64' East: 6101382.05'
 Segment #1 : Line
 Course: North 00° 57' 31" East Length: 132.21'
 North: 2042260.84' East: 6101384.26'

Segment #2 : Line
 Course: North 88° 18' 31" East Length: 84.15'
 North: 2042263.32' East: 6101468.38'

Segment #3 : Line
 Course: North 78° 42' 01" East Length: 52.51'
 North: 2042273.61' East: 6101519.87'

Segment #4 : Line
 Course: South 36° 22' 02" East Length: 2.37'
 North: 2042271.70' East: 6101521.27'

Segment #5 : Line
 Course: South 43° 47' 34" West Length: 104.91'
 North: 2042195.97' East: 6101448.67'

Segment #6 : Line
 Course: South 44° 41' 53" West Length: 94.71'
 North: 2042128.65' East: 6101382.05'

Perimeter: 470.87' Area: 8,892 Sq. Ft. - 0.20 Acres ±
 Error Closure: 0.01 Course: North 34° 52' 30" East
 Error North: 0.005 East: 0.003
 Precision 1: 47086.00

UNION SANITARY DISTRICT

_____, 2023

Alameda County Flood Control &
Water Conservation District

GRANTOR

REAL PROPERTY PURCHASE CONTRACT

UNION SANITARY DISTRICT

Assessor's Parcel No. 428-40-13-7 (Por.)

This document Nos. RF-2306-B in the form of **Temporary Construction Easement (TCE)** covering the property particularly described in Clause 3 below has been executed and delivered to Ric Pipkin, Enhanced Treatment and Site Upgrade Manager, Union Sanitary District's (GRANTEE) Representative.

In consideration of which, and the other considerations hereinafter set forth, it is mutually agreed as follows:

1. The parties have herein set forth the whole of their agreement. The performance of this agreement constitutes the entire consideration for said document and shall relieve the GRANTEE of all further obligation or claims on this account, or on account of the location, grade, or construction of the proposed improvement.
2. The GRANTEE shall pay the undersigned GRANTOR the sum of five thousand, one hundred dollars, (\$5,100.00) for the TCE.
3. Permission is hereby granted to the GRANTEE, its authorized agent, or contractor(s) to enter upon GRANTOR's land where necessary within that certain area labeled as parcels RF-2306-B on the map marked Exhibit "A" attached hereto and made a part hereof, for the purpose of staging and overhead access to the Grantee's existing property adjacent to the TCE. The TCE shall begin on December 1, 2025 and expire on **December 31, 2030.**
4. It is agreed and confirmed by the parties hereto that notwithstanding other provisions in this contract, the right of possession and use of the subject property by the GRANTEE, shall commence on the date the amount of funds as specified in Clause 2 herein are paid to the GRANTOR. The amount shown in Clause 2 herein includes, but is not limited to, full payment for such possession and use, from said date.

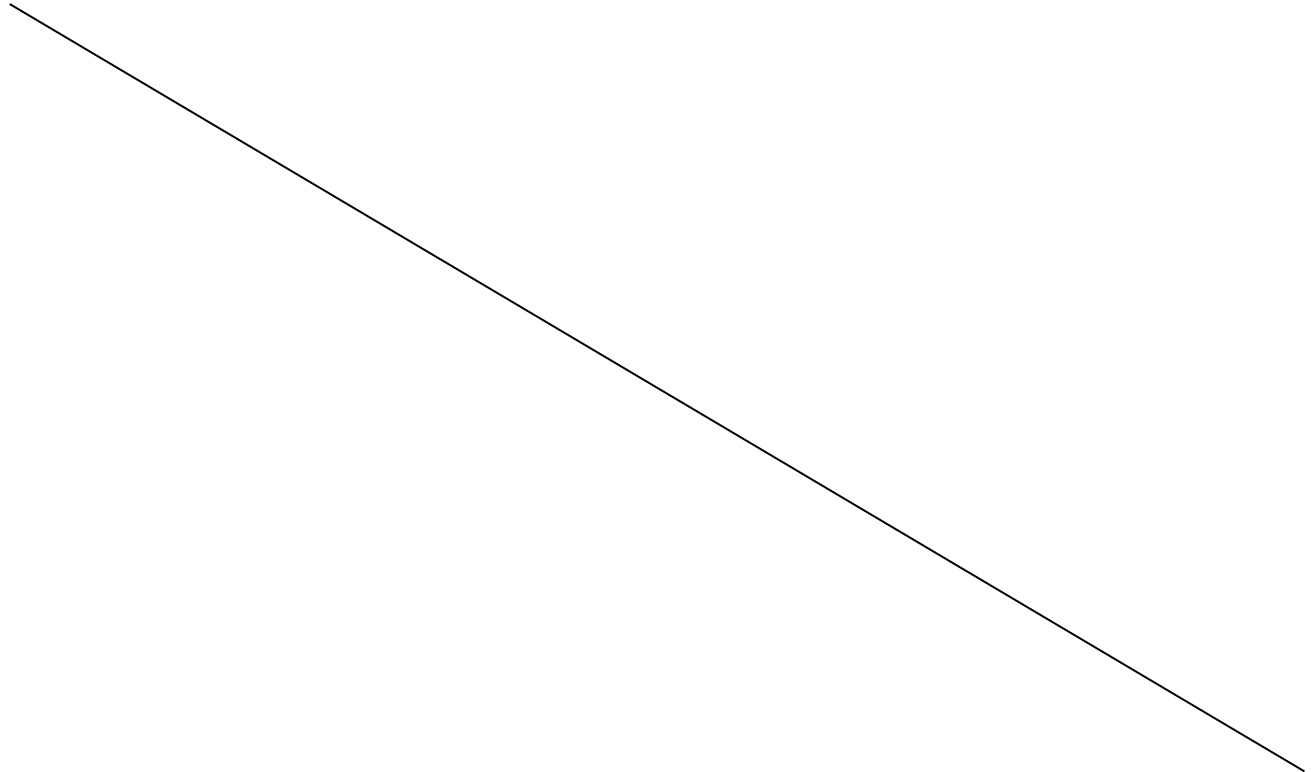
5. The undersigned GRANTOR warrants that they are the owner in fee simple of the property affected by this TCE as described in Clause 3 above and that they have the exclusive right to grant the property rights.
6. GRANTEE agrees to indemnify and hold harmless GRANTOR from any liability arising out of GRANTEE's operations under this agreement. GRANTEE further agrees to assume responsibility for any damages proximately caused by reason of GRANTEE's operations under this agreement and GRANTEE will, at its option, either repair or pay for such damage.
7. All work done under this agreement shall conform to all applicable building, fire and sanitary laws, ordinances, and regulations relating to such work, and shall be done in a good and workmanlike manner. All structures, improvements, or other facilities, such as fencing and gates, when removed, and relocated, or reconstructed by the GRANTEE, shall be left in as good or better condition as found.
8. In case of unpredictable delays in construction, upon written notification, the terms of the TCE may be extended by an amendment to this Right of Way contract. Grantor shall be compensated based on the fair market value at the time of the extension. Payment shall be made to the Grantor for the extension prior to the expiration of the original period.
9. GRANTOR warrants that there are no oral or written leases on all or any portion of the property exceeding a period of one month, and the GRANTOR agrees to hold GRANTEE harmless and reimburse GRANTEE for any and all of its losses and expenses occasioned by reason of any lease of said property held by any tenant of the GRANTOR for a period exceeding one month.
10. This Right of Way Contract shall be binding upon and inure to the benefit of the heirs, devisees, executors, administrators, legal representatives, successors and assigns of the GRANTOR.
11. In lieu of recordation of deed, GRANTOR agrees to fully disclose the existence of the TCE, and the GRANTEE's compensation to any and all potential buyers in the event the GRANTOR should choose to sell the above described parcel during the term of the Easement or after the acceptance of this contract.
12. This Right of Way Contract and any subsequent amendments may be executed in any number of counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.
13. Upon the construction contract award, the GRANTEE's contractor shall apply for an Encroachment Permit from the Alameda County Public Works Agency at 399 Elmhurst Street, Room 141 Hayward, CA 94544, and pay any fees as required, including but not limited to inspection fees.
14. The parties to this contract shall, pursuant to 21.7(a) of Title 49, Code of Federal Regulations, comply with all elements of Title VI of the Civil Rights Act of 1964. This

requirement under Title VI and the Code of Federal Regulations is to complete the USDOT Non-Discrimination Assurance requiring compliance with Title VI of the Civil Rights Act of 1964, 49 C.F.R. Parts 21 and 28 C.F.R. Section 50.3.

15. No person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity that is the subject of this contract.

16. The GRANTOR hereby represents and warrants that during the period of GRANTOR's ownership of the property that GRANTOR has no knowledge of any disposals, releases or threatened releases of hazardous substances or hazardous waste on, from, or under the property. GRANTOR further represents and warrants that GRANTOR has no knowledge of any disposal, release, or threatened release of hazardous substances or hazardous waste on, from, or under the property which may have occurred prior to GRANTOR taking title to the property.

The acquisition price of the property being acquired in this transaction reflects the fair market value of the property without the presence of contamination. If the property being acquired is found to be contaminated by the presence of hazardous waste which requires mitigation under Federal or GRANTEE law, the GRANTEE may elect to recover its clean-up costs from those who caused or contributed to the contamination.



In Witness Whereof, the Parties have executed this agreement the day and year first above written.

GRANTOR

ALAMEDA COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

DANIEL WOLDESENBET, Ph.D., P.E.
Director of Public Works Agency

RECOMMENDED FOR APPROVAL:

By: _____
Michael Tadesse
Acting Supervising Right of Way Agent

RECOMMENDED FOR APPROVAL:

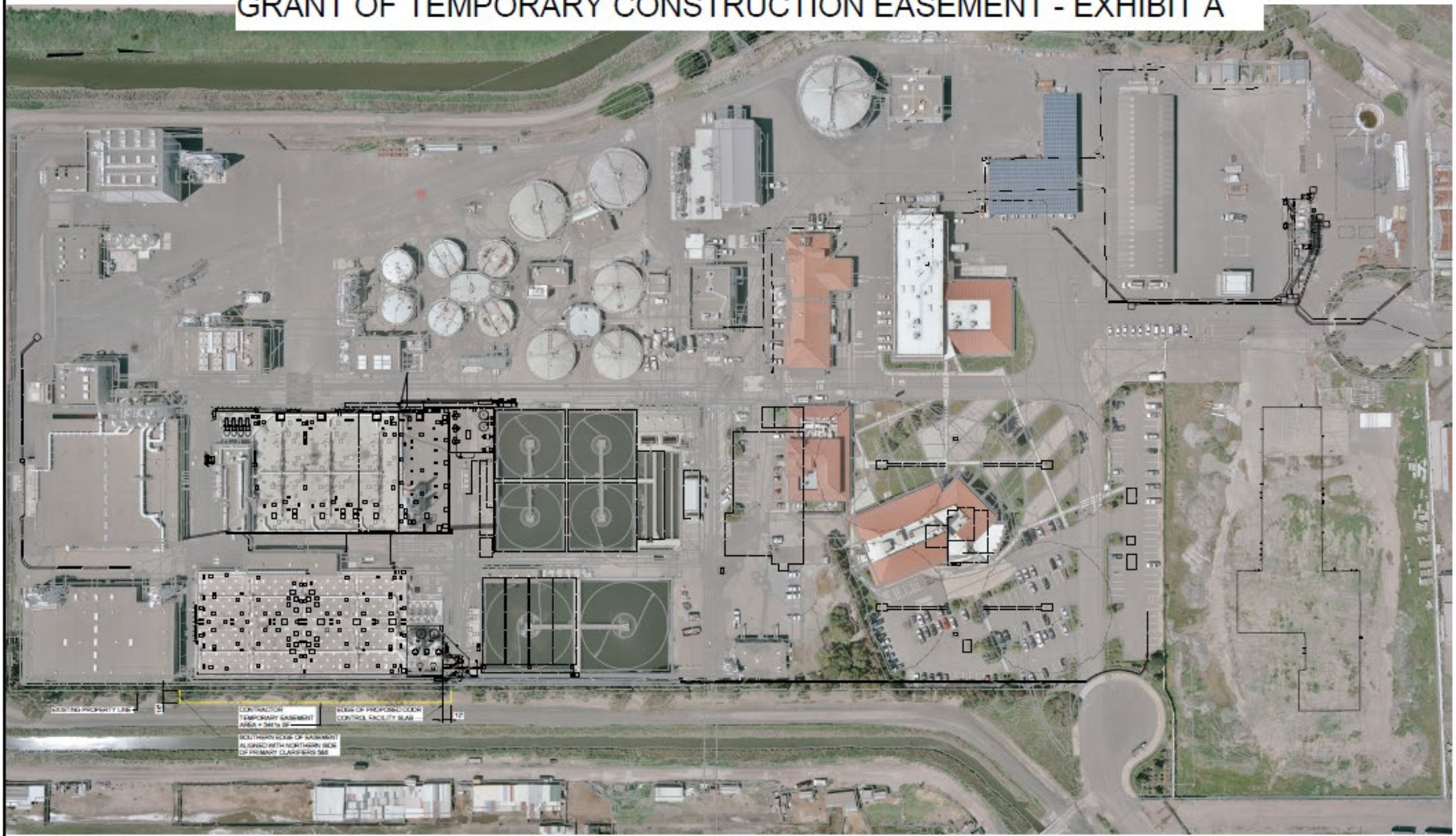
Union Sanitary District

By: _____
RICHARD PIPKIN
ETSU Program Manager

Date: _____

No Obligation Other Than Those Set Forth Herein Will Be Recognized

GRANT OF TEMPORARY CONSTRUCTION EASEMENT - EXHIBIT A



OVERALL SITE PLAN
1" = 50'

CONFORMED DRAWINGS

PROJECT CHAIRMAN:	A. BRIGGS		
DESIGNED BY:	HAZEN		
DRAWN BY:	HAZEN		
CHECKED BY:	HAZEN		
REV	REASON FOR	DATE	BY

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

HAZEN AND SAWYER
90 NEW MONTGOMERY ST., SUITE 300
SAN FRANCISCO, CALIFORNIA 94105

UNION SANITARY DISTRICT

ENHANCED TREATMENT AND SITE UPGRADE PROGRAM
PHASE 1A - AERATION BASIN MODIFICATIONS

EXHIBIT A
CONTRACTOR TEMPORARY CONSTRUCTION EASEMENT MAP
RF-2306-B

DATE:	SEPTEMBER 2021
HAZEN NO.:	20118-002
USD NO.:	800-532
DRAWING NUMBER:	M31
SHEET NUMBER:	

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy



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

Karen W. Murphy
Attorney

**MAY 28, 2024
BOARD OF DIRECTORS MEETING
AGENDA ITEM #11**

TITLE: **Proposed Operating and CIP Budget for Fiscal Year 2025 (*to be reviewed by the Budget & Finance Committee*) (*Direction Item*)**

SUBMITTED: Paul R. Eldredge, General Manager/District Engineer
Mark Carlson Work Group Manager, CFO

Recommendation

Review the Proposed Operating and CIP Budget for FY 2025, and direct staff to present the final version at the June 24th Board meeting.

Discussion

Attached for your review is the Proposed Operating and CIP Budget for FY 2025. This budget reflects the Board’s input and information presented at the Budget Workshop on April 30, 2024, with the following updated changes since the workshop:

1. Special Projects – \$100,000 - Added Plant Site Security Improvements. This item is the second year of a five site improvement plan directed by the Board. These funds were inadvertently not included in the Budget workshop documents.
2. Cost of Service Analysis (COSA) - \$125,000 – This item has been added for the COSA that will begin in July of 2024.
3. FMC - \$42,500 – This is an adjustment for electrical costs at the Irvington Pump Station based on the latest true up billing information from PGE which came in higher than expected.

Background

This item is brought before the Board on an annual basis. The Board met in a workshop on April 30, 2024 to hear a presentation by staff and to provide feedback on the proposed FY 2025 budget.

Previous Board Action

Proposed Operating and CIP Budget FY 2025

Attachments

1. 05-28-24 Board Meet Final Budget Draft



USD TREAT
PROTECT
PRESERVE
est. 1918
TRI-CITY WASTEWATER

Union Sanitary District

Union City, California

Proposed Operating and CIP Budget FY 2025



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INTRODUCTION



ETSU Aeration Basin Project
Cover Picture: Motor Control Panels at New Aeration Basins

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Board of Directors



Jennifer Toy



Tom Handley



Pat Kite



Manny Fernandez



Anjali Lathi



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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

Karen W. Murphy
Attorney

MEMO TO: Board of Directors - Union Sanitary District

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

SUBJECT: Fiscal Year 2024/2025 Proposed Operating and CIP Budget

Union Sanitary District (USD) staff is pleased to present the proposed annual budget for Fiscal Year (FY) 2025 to the Board of Directors. This budget, covering the period from July 1, 2024 through June 30, 2025, was developed based on direction provided by the Board of Directors.

District Highlights

The District continues to focus on the operation and maintenance of its infrastructure and assets, capital project construction, planning, and effective use of technology. The District reports the following notable items that will be part of the budget for FY 2025:

Enhanced Treatment & Site Upgrade Program – The District embarked on the ETSU Phase 1 Group of Projects in FY 2023 as part of an overall Program to support the next 20 to 40 years of operation. The key drivers for ETSU Phase 1 projects include addressing aging infrastructure, improving water quality in the San Francisco Bay through nutrient removal upgrades, and hardening of infrastructure to support resiliency efforts to manage wet weather events and continuing to provide USD’s critical services without interruption. These include improvements to the aeration basins and relocation of operations, maintenance, and administrative facilities. Construction of the first group of the phase 1 projects is underway and are approximately 55% complete. Design of Phases 1B and 1C are ongoing with the Phase 1B bid set expected to be completed by mid FY 2025. It is currently anticipated that construction will continue through 2030 for the various phases.

Project Financing – As part of the ETSU Phase 1 program mentioned above, the District was able to secure \$249 million in low cost EPA Water Infrastructure Finance and Innovation Act (WIFIA) financing in December of 2021. These funds will account for 49% of the total project costs. In addition to the WIFIA financing, the District issued the 2021A bonds for \$110 million in October of 2021 and secured \$100 million in state SRF funding. During FY 2025 the District anticipates issuing

\$150 million in interim notes to fund construction through 2028 when the WIFIA funds will be available to retire existing debt and/or pay for project costs.

Standby Power Project – The District began the Standby Power project in FY 2023. The Standby Power Generation System Upgrade Project will replace the current emergency power system at the Alvarado Wastewater Treatment Plant. The new equipment will include three emergency power generators and space for one future generator, generator controls, electrical switchgear, above ground diesel fuel storage tank, and other support equipment. This project is expected to be complete in FY 2026 and is contingent upon the delivery and installation of switchgear SE.

Stewardship and Service - The District continued its record of outstanding stewardship and service. Once again, USD received the Platinum Award, for the 15th consecutive year, from the National Association of Clean Water Agencies for Peak Performance for operating without exceeding the limits or conditions of the District’s permit. This is a tribute to the outstanding work by District Operations and Maintenance teams. The District continues to average less than one spill per hundred miles of pipeline per year, ranking the District among the best in the State, while doing so in a very cost-effective manner.

Financial State of the District

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

Revenue - Sewer Service Charges (SSC) are expected to increase by \$7.9 million in FY 2025 to \$92.1 million and interest earnings are budgeted to increase \$6.5 million to \$11.0 million.

Expenditures - Total District expenditures for the coming fiscal year are projected to increase by \$2.3 million or 1.4%. Operating expenses are anticipated to increase by \$3.6 million or 6.5%. Within the operating category, salaries and benefits are expected to increase \$2.4 million or 6.8%. The salary and benefit increases are primarily due to the addition of three new positions. The District has added a limited duration mechanic to assist with additional EBDA duties assumed by the District and two limited duration engineers for the ETSU project.

For FY 2025 the District is seeing increases in chemicals, insurance costs, utilities, bio-solids disposal, and District wide parts and materials (e.g. utilities are up 11.0% and chemicals are up 8.1%). The District continues to find ways to reduce costs through planning partnerships and strict fiscal prudence.

The Capital Improvement Program is budgeted to increase \$1.1 million or 1.3% over FY 2024. Capital project spending will continue to focus on rehabilitation and replacement of key elements of the wastewater treatment plant, transport, and collections system. The 10- and 20-year CIP budgets are

currently projected at \$787 million and \$1.7 billion respectively. Although this is the third consecutive year of increased capital spending, it is not unexpected and has been planned for and programmed into the financial model and rate structure.

In keeping with the District's continued efforts toward prudent fiscal planning, the creation of a 115 Pension Trust was adopted by the Board in FY 2022 with an initial contribution of \$3.0 million. The district contributed \$6.4 million in FY 2024 and has budgeted for a \$3 million transfer in FY 2025.

Special Projects Fund expenditures will decrease by \$1.4 million from FY 2024, of which \$1.5 million of this decrease is due to savings related to election costs. Some of the more significant special projects are the continued set aside of \$1.5 million for property acquisitions to accommodate opportunities as they become available, \$100,000 for the Alvarado Basin study, \$125,000 for a new COSA study, \$200,000 for the Newark Basin study, \$250,000 for the Alameda Creek ROWD, \$100,000 for continued security upgrades at District facilities, and \$300,000 for the Solids Systems Evaluation.

Balanced Budget, Reserves and Rates

USD has long operated with a balanced budget and FY 2025 is no exception. District reserves continue to be stable. Although funds will be utilized from both the Sewer Service Fund and Capacity Fund reserves in FY 2025, these are planned capital activities and are part of the long-term capital utilization strategy of the District.

Conclusion

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

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

Respectfully Submitted,

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

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FINANCIAL SECTION



ETSU East Aeration Basin Construction

Budget Summary – All Funds

	Actual * FY 21/22	Actual * FY 22/23	Budget FY 23/24	Projected FY 23/24	Proposed Budget FY 24/25	Variance to 23/24 Budget	% Change
Revenues							
Sewer Service Charge	\$ 73,822,317	\$ 77,986,322	\$ 84,200,000	\$ 84,394,090	\$ 92,136,104	\$ 7,936,104	9.4%
Capacity Fees	11,145,152	7,371,192	8,420,000	3,057,500	3,925,000	(4,495,000)	-53.4%
Work Group Revenues	1,307,546	1,372,027	1,353,500	1,380,280	1,519,300	165,800	12.2%
Interest	1,520,644	7,562,316	4,530,000	8,826,353	11,020,000	6,490,000	143.3%
Other Revenues	1,607,370	654,626	11,276	15,168	15,600	4,324	38.3%
Net Loan Proceeds	110,317,768	-	-	-	-	-	-
SRF Funds Draw Down (Standby Power)	-	-	12,296,700	22,034,344	2,000,000	(10,296,700)	-83.7%
4 Year Interim Notes 2024A	-	-	-	-	150,000,000	150,000,000	-
Total Revenues	199,720,798	94,946,483	110,811,476	119,707,735	260,616,004	149,804,528	135.2%

Expenditures by Type							
Operating	45,075,325	48,444,658	55,370,877	54,955,492	58,981,622	3,610,745	6.5%
Internal Service (1)	5,113,529	2,478,981	9,662,100	9,500,410	6,839,985	(2,822,115)	-29.2%
Debt Service	7,231,990	8,981,016	9,134,080	9,067,180	10,985,380	1,851,300	20.3%
Special Projects	1,002,174	855,302	4,154,384	839,422	2,776,000	(1,378,384)	-33.2%
Capital Projects	26,561,708	66,901,712	84,554,100	87,395,937	85,619,700	1,065,600	1.3%
Total Expenditures	84,984,726	127,661,669	162,875,541	161,758,441	165,202,687	2,327,146	1.4%

Revenues Over (under) Expenditures	\$ 114,736,071	\$ (32,715,186)	\$ (52,064,065)	\$ (42,050,706)	\$ 95,413,317	\$ 147,477,382	-283.3%
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EXPENDITURE RESPONSIBILITY BY OPERATING GROUP							
Board of Directors	\$ 146,070	\$ 148,604	\$ 229,861	\$ 171,061	\$ 217,968	\$ (11,893)	-5.2%
General Manager	1,044,864	1,225,996	1,336,767	1,294,472	1,420,662	83,895	6.3%
Business Services (2)	17,268,385	15,107,232	22,557,717	22,292,365	21,360,408	(1,197,309)	-5.3%
Collection Services (3)	7,528,445	8,580,271	8,931,936	8,835,136	10,128,753	1,196,817	13.4%
Technical Services	6,578,316	6,805,880	7,724,288	7,850,523	7,888,964	164,676	2.1%
Treatment & Disposal Services	15,123,376	16,909,775	21,468,508	21,240,979	23,031,093	1,562,585	7.3%
Fabrication, Maint & Construction (4)	9,731,388	11,126,897	11,917,980	11,838,546	12,759,139	841,159	7.1%
Capital Projects (5)	26,561,708	66,901,712	84,554,100	87,395,937	85,619,700	1,065,600	1.3%
Special Projects (5)	1,002,174	855,302	4,154,384	839,422	2,776,000	(1,378,384)	-33.2%
Total by Operating Group	\$ 84,984,726	\$ 127,661,669	\$ 162,875,541	\$ 161,758,441	\$ 165,202,687	\$ 2,327,146	1.4%

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

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

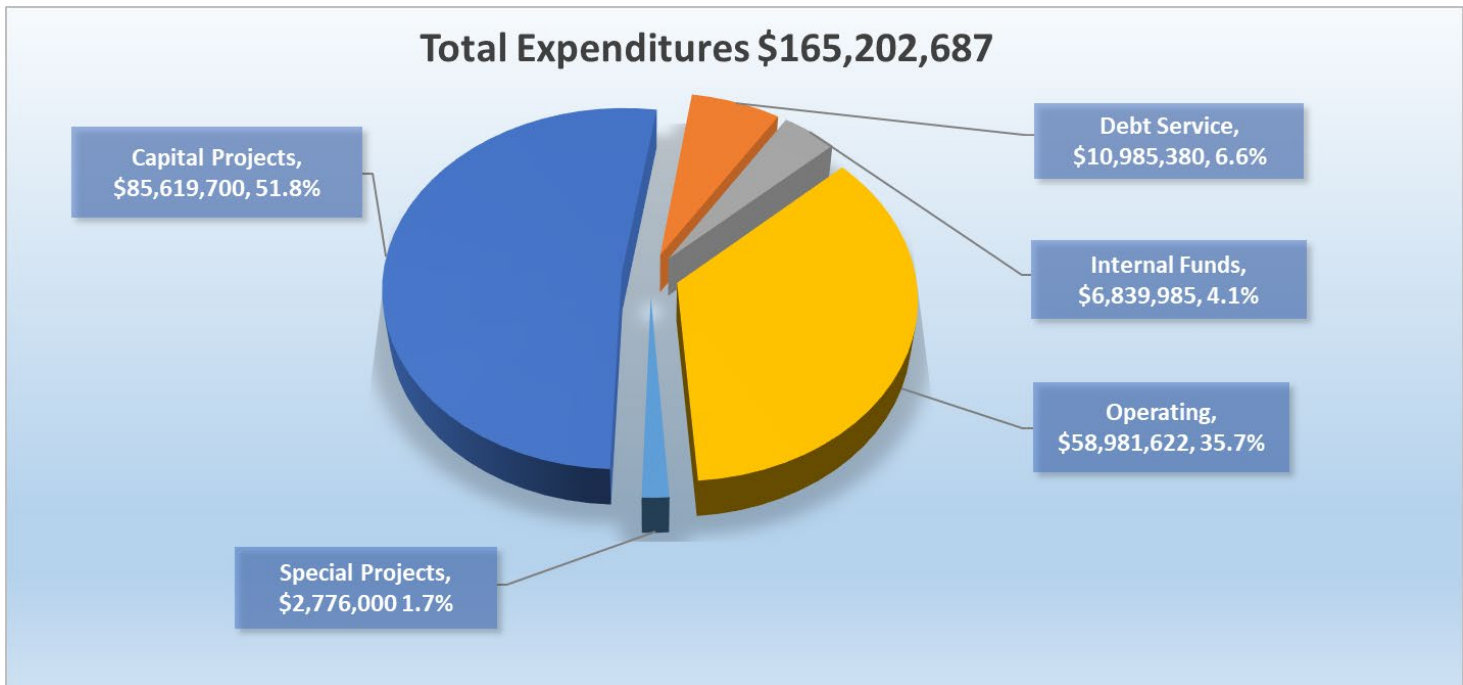
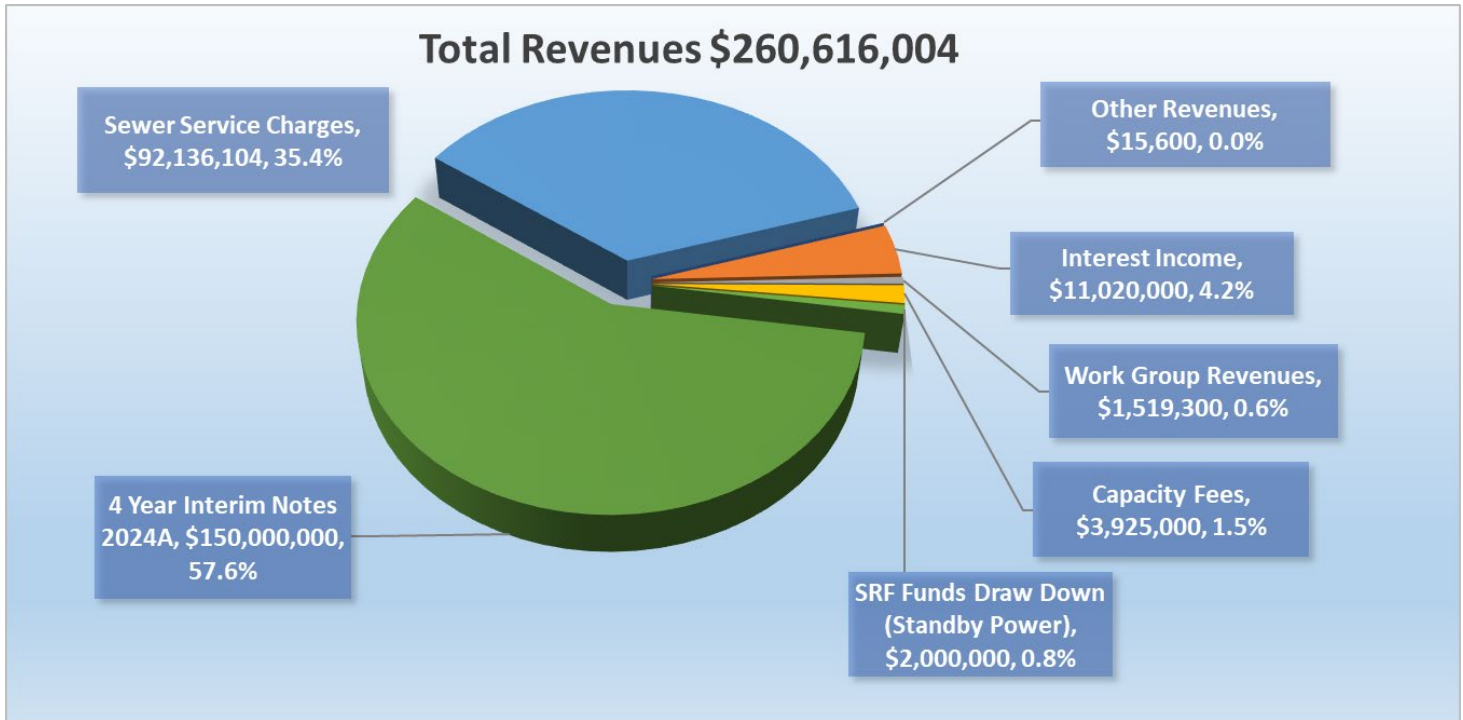
(2) Includes the following funds: 40 - Other Post Employment Benefits, 45 - 115 Pension Trust, and debt payments

(3) Includes the following funds: 50 - Vehicle & Equipment Replacement.

(4) Includes the following funds: 60 - Information Systems, 70 - Plant and Pump Station.

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

District Wide Revenue & Expenditures



Combined Budget by Fund Sewer Service & Capacity Funds

	Sewer Service Fund	Capacity Fund	Total
Revenues			
Sewer Service Charge	\$ 92,136,104	\$ -	\$ 92,136,104
Capacity Fees	-	3,925,000	3,925,000
Work Group Revenues	1,519,300	-	1,519,300
Interest	7,160,000	3,860,000	11,020,000
Other Revenues	15,600	-	15,600
SRF Funds Draw Down (Standby Power)	2,000,000	-	2,000,000
4 Year Interim Notes 2024A	150,000,000	-	150,000,000
Total Revenues	252,831,004	7,785,000	260,616,004

Expenditures			
Operating	58,981,622	-	58,981,622
Internal Funds (1)	6,839,985	-	6,839,985
Debt Service	7,324,964	3,660,416	10,985,380
Special Projects	2,776,000	-	2,776,000
Capital Projects	64,769,400	20,850,300	85,619,700
Total Expenditures	140,691,971	24,510,716	165,202,687

Revenues Over (less than) Expenditures	\$ 112,139,033	\$ (16,725,716)	\$ 95,413,317
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EXPENDITURE RESPONSIBILITY BY OPERATING GROUP			
Board of Directors	\$ 217,968	\$ -	\$ 217,968
General Manager	1,420,662	-	1,420,662
Business Services (2)	17,699,992	3,660,416	21,360,408
Collection Services (3)	10,128,753	-	10,128,753
Technical Services	7,888,964	-	7,888,964
Treatment & Disposal Services	23,031,093	-	23,031,093
Fabrication, Maint & Construction (4)	12,759,139	-	12,759,139
Capital Projects (5)	64,769,400	20,850,300	85,619,700
Special Projects (5)	2,776,000	-	2,776,000
Total by Operating Group	\$ 140,691,971	\$ 24,510,716	\$ 165,202,687

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

(2) Includes the following funds: 40 - Other Post Employment Benefits, 45 - 115 Pension Trust, and debt payments

(3) Includes the following funds: 50 - Vehicle & Equipment Replacement.

(4) Includes the following funds: 60 - Information Systems, 70 - Plant and Pump Station.

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

REVENUES

	Actual * FY 21/22	Actual * FY 22/23	Budget FY 23/24	Projected FY 23/24	Proposed Budget FY 24/25	Variance to 23/24 Budget	% Change
Revenues							
Sewer Service Charge	\$ 73,822,317	\$77,986,322	\$ 84,200,000	\$ 84,394,090	\$ 92,136,104	\$ 7,936,104	9.4%
Capacity Fees	11,145,152	7,371,192	8,420,000	3,057,500	3,925,000	(4,495,000)	-53.4%
Work Group Revenues	1,307,546	1,372,027	1,353,500	1,380,280	1,519,300	165,800	12.2%
Interest	1,520,644	7,562,316	4,530,000	8,826,353	11,020,000	6,490,000	143.3%
Other Revenues	1,607,370	654,626	11,276	15,168	15,600	4,324	38.3%
Net Loan Proceeds	110,317,768	-	-	-	-	-	-
SRF Funds Draw Down (Standby Power)	-	-	12,296,700	22,034,344	2,000,000	(10,296,700)	-83.7%
4 Year Interim Notes 2024A	-	-	-	-	150,000,000	150,000,000	-
Total Revenues	\$ 199,720,798	\$94,946,483	\$ 110,811,476	\$ 119,707,735	\$ 260,616,004	\$ 149,804,528	135.2%

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

Sewer Service Charges - The principal revenue source for the Sewer Service Fund is the annual Sewer Service Charges (SSC), which are projected to increase over the prior year budget by \$7,936,104. Single Family Dwelling (SFD) rates will increase from \$569.97 in FY 2024 to \$611.58 in FY 2025. Similarly, the annual Multi-family Dwelling rate will increase from \$502.28 in FY 2024 to \$538.95 in FY 2025. Residential rates account for approximately 73% of total sewer service charge revenues. For non-residential customers, rates are calculated annually using flow based on water usage and sewage strength.

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

Capacity Fees - The revenue source for the Capacity Fund is Capacity Fees, which are expected to decrease by \$4,495,000 or 53.4% from the prior year's budget. These revenues vary depending on development in the service area. Developers have indicated that current interest rates have impacted the viability of certain projects and as such are pausing certain developments until the economics of the project make good business sense. The capacity fees are collected in accordance with the provisions of California Assembly Bill (AB) 1600 and are intended to mitigate the impacts of new developments. In the case of the District, these fees are collected from new developments as a requirement of connecting to the sewer system. As such, they can only be used for capital projects that preserve or increase the system's capacity.

Work Group Revenues - These revenues consist of field inspection fees, plan check fees, permits, external work orders, and services provided under contract to the City of Fremont's Urban Runoff program. Because these items tend to vary based on external demands, anticipated revenues are typically estimated in a conservative manner. For FY 2025 the total of all of these revenues are expected to increase \$165,800 or 12.2% compared to the prior year's budget.

Interest Revenues – Investment earnings are expected to increase by \$6,490,000 or 143.3% to the prior year’s budget. The majority of this increase is related to expected interest earnings from the issuance of interim notes for the ETSU project.

4 Year Interim Notes - The District anticipates issuing 4-year interim notes to fund the ETSU program until the WIFIA funds are available. The final amount of the issuance may change depending on the final determination of funding needs.

SRF Loan Proceeds – The District expects to draw down \$2,000,000 in previously approved State Revolving Funds (SRF) to pay FY 2025 project expenditures for the Standby Power Generation System project.

EXPENDITURES

ALL FUNDS SUMMARY							
	Actual * FY 21/22	Actual * FY 22/23	Budget FY 23/24	Projected FY 23/24	Proposed Budget FY 24/25	Variance to 23/24 Budget	% Change
Expenditures by Type							
Operating	\$ 45,075,325	\$ 48,444,658	\$ 55,370,877	\$ 54,955,492	\$ 58,981,622	\$ 3,610,745	6.5%
Internal Service (1)	5,113,529	2,478,981	9,662,100	9,500,410	6,839,985	(2,822,115)	-29.2%
Debt Service	7,231,990	8,981,016	9,134,080	9,067,180	10,985,380	1,851,300	20.3%
Special Projects	1,002,174	855,302	4,154,384	839,422	2,776,000	(1,378,384)	-33.2%
Capital Projects	26,561,708	66,901,712	84,554,100	87,395,937	85,619,700	1,065,600	1.3%
Total Expenditures	84,984,726	127,661,669	162,875,541	161,758,441	165,202,687	2,327,146	1.4%
EXPENDITURE RESPONSIBILITY BY OPERATING GROUP							
Board of Directors	\$ 146,070	\$ 148,604	\$ 229,861	\$ 171,061	\$ 217,968	\$ (11,893)	-5.2%
General Manager	1,044,864	1,225,996	1,336,767	1,294,472	1,420,662	83,895	6.3%
Business Services (2)	17,268,385	15,107,232	22,557,717	22,292,365	21,360,408	(1,197,309)	-5.3%
Collection Services (3)	7,528,445	8,580,271	8,931,936	8,835,136	10,128,753	1,196,817	13.4%
Technical Services	6,578,316	6,805,880	7,724,288	7,850,523	7,888,964	164,676	2.1%
Treatment & Disposal Services	15,123,376	16,909,775	21,468,508	21,240,979	23,031,093	1,562,585	7.3%
Fabrication, Maint & Construction (4)	9,731,388	11,126,897	11,917,980	11,838,546	12,759,139	841,159	7.1%
Capital Projects (5)	26,561,708	66,901,712	84,554,100	87,395,937	85,619,700	1,065,600	1.3%
Special Projects (5)	1,002,174	855,302	4,154,384	839,422	2,776,000	(1,378,384)	-33.2%
Total by Operating Group	\$ 84,984,726	\$ 127,661,669	\$ 162,875,541	\$ 161,758,441	\$ 165,202,687	\$ 2,327,146	1.4%

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

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

(2) Includes the following funds: 40 - Other Post Employment Benefits, 45 - 115 Pension Trust, and debt payments

(3) Includes the following funds: 50 - Vehicle & Equipment Replacement.

(4) Includes the following funds: 60 - Information Systems, 70 - Plant and Pump Station.

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

Overall, District expenditures are expected to increase by \$2,327,146 or 1.4%. The following pages discuss the significant change in expenditures for FY 2025.

Operating Expenses							
	Actual FY 21/22	Actual FY 22/23	Budget FY 23/24	Projected FY 23/24	Proposed Budget FY 24/25	Variance to 23/24 Budget	% Change
Salaries & Benefits							
Salaries	\$20,218,245	\$20,894,374	\$21,583,146	\$21,640,789	\$22,790,646	\$ 1,207,500	5.6%
Pension	6,290,913	6,817,718	7,750,977	7,775,720	9,009,952	1,258,975	16.2%
Health Care Benefits	3,157,951	3,308,464	4,231,292	4,250,375	3,994,032	(237,260)	-5.6%
Workers Compensation	361,129	403,731	427,008	427,272	523,200	96,192	22.5%
Training	99,358	187,496	371,250	301,945	411,760	40,510	10.9%
Other	514,046	556,262	680,521	628,290	712,204	31,683	4.7%
Subtotal Salaries and Benefits	30,641,642	32,168,045	35,044,194	35,024,391	37,441,794	2,397,600	6.8%
Utilities	2,504,057	2,820,774	3,360,200	3,416,252	3,728,726	368,526	11.0%
Biosolids	1,248,141	1,436,161	1,588,000	1,586,000	1,600,000	12,000	0.8%
Supplies	2,177,299	2,669,850	2,398,540	2,398,152	2,631,135	232,595	9.7%
Chemicals	2,715,699	3,816,517	6,176,712	5,915,712	6,676,744	500,032	8.1%
Repair & Maintenance	3,553,463	3,795,048	4,279,871	4,076,569	4,199,192	(80,679)	-1.9%
Other	2,235,024	1,738,263	2,523,360	2,538,417	2,704,031	180,671	7.2%
Subtotal Other Operating	14,433,683	16,276,612	20,326,683	19,931,101	21,539,828	1,213,145	6.0%
Total Operating Expenditures	\$45,075,325	\$48,444,658	\$55,370,877	\$54,955,492	\$58,981,622	\$ 3,610,745	6.5%

Salaries and Benefits

District wide, personnel expenses are budgeted to increase \$2,397,600 or 6.8% over the prior year budget. The major items are discussed below:

- Salaries are budgeted to increase \$1,207,500 or 5.6%. The increase results from prior year wage agreements, classified scheduled step increases, and the addition of 3 positions. The District has added a limited duration mechanic to assist with additional EBDA duties assumed by the District and two limited duration engineers for the ETSU program.
- Pension expenses are budgeted to increase of \$1,258,975 or 16.2% to the prior year budget based upon rates provided by CalPERS. The District prepays the annual Unfunded Actuarial Liability payment in July of each year, rather than paying in 12 monthly installments, generating an annual cost savings of \$178,000.
- Health Care Benefit costs will decrease by \$237,260 or 5.6% over the prior year. For FY 2025, the District has reassessed how it calculates and budgets its health insurance on a per employee basis which more closely aligns with the actual costs.
- Workers' Compensation costs will increase \$96,192 or 22.5%. The District's experience modification (x-mod) factor increased from .78 to .89.
- Training will increase by \$40,510 or 10.9% which is largely due to the continuing impact of employees returning to offsite training with the end Covid-19 restrictions.

- Other salary and benefits costs will increase by \$31,683 or 4.7% to the prior year budget. Other salary and benefit costs consist of Medicare and unemployment taxes, membership fees and certain safety program expenditures.

Other Operating Expenditures

Other Operating expenses are budgeted, in total, to increase \$1,213,145 to the prior year budget. The major items are discussed below:

- Utilities are increasing \$368,526 or 11.0%. This reflects the across the board rate impacts being seen in utilities nationwide.
- Biosolids disposal remains relatively flat compared to the prior year with an increase of \$12,000 or 0.8%.
- Supplies are increasing \$232,595 or 9.7%. Costs of supplies and operating parts have been impacted by recent inflationary pressures, resulting in increases in most categories across the District.
- Chemicals are budgeted to increase \$500,032 or 8.1%. The main increases are for Sodium Hypochlorite and Ferrous Chloride. These chemicals are critical to the effective and reliable treatment of wastewater.
- Repair and Maintenance costs are decreasing by \$80,679 or 1.9% compared to FY 2024. This account varies year over year depending on the anticipated need of plant and equipment maintenance.
- Other expenditures, which consists of rents, professional fees, permits, insurance costs and small asset purchases are budgeted to increase \$180,671 or 7.2%.

INTERNAL FUNDS

Fund Description	Actual FY 21/22	Actual FY 22/23	Budget FY 23/24	Projected FY 23/24	Proposed Budget FY 24/25	Variance to 23/24 Budget	% Change
Other Post Employment Benefits - Fund 40	\$ 1,430,142	\$ 1,451,569	\$1,475,000	\$1,475,000	\$ 1,481,000	\$ 6,000	0.4%
115 Pension Trust - Fund 45	3,000,000	-	6,400,000	6,400,000	3,000,000	(3,400,000)	-53.1%
Vehicles & Equip Replacement - Fund 50	-	176,662	187,300	105,605	958,985	771,685	412.0%
Information Systems Replacement - Fund 60	356,115	542,449	1,199,800	1,119,805	1,000,000	(199,800)	-16.7%
Plant and Pump Station Replacement - Fund 70	327,272	308,301	400,000	400,000	400,000	-	0.0%
Total	\$ 5,113,529	\$ 2,478,981	\$9,662,100	\$9,500,410	\$6,839,985	\$ (2,822,115)	-29.2%

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

Other Post Employment Benefits (OPEB) and Pension 115 Expenditures	
115 Pension Trust Contribution	\$ 3,000,000
115 OPEB Retiree Medical Trust Contribution	900,000
Retiree Reimbursement	581,000
Total	\$ 4,481,000

OPEB expenditures for the District are increasing \$6,000 or 0.4% compared to the prior year. The total expenditure consists of two parts. The first is \$581,000 towards the District’s annual ongoing normal costs. The second is a planned \$900,000 contribution to the District’s 115 OPEB Trust. In 2021 the District adopted Pension and OPEB Policy 2095, which in part sets a goal of maintaining the funding percentage of the plan between 90% and 100%. These additional funds will work toward achieving that policy goal.

Fund 45, (115 Pension Trust), was established in FY 2022 to facilitate the policy discussed in the paragraph above. Similar to OPEB, the long-term goal is to increase the percent funded of the District pension plan. Annually, the Board determines an amount to contribute into a qualified 115 Trust. This Trust accumulates funds, along with the related investment income, to be used for paying future qualified pension expenses. The goal of the 115 Trust is to pay off the District’s unfunded liabilities within 9 years of FY 2025. Total contributions to the trust through the end of FY 2024 were \$9.4 million.

Renewal & Replacement - Vehicles and Equipment	
Vehicles	
Vactor Truck	\$ 723,585
Telehandler	85,000
Electric Truck	82,400
(2) Plant Carts	68,000
Equipment	
No Equipment in FY25	-
Total	\$ 958,985

For FY 2025 the District is planning on purchasing one pick-up truck for \$82,400. This truck was originally budgeted in FY 2024; however, the purchase was pushed off to FY 2025. This budget also includes \$68,000 for two utility carts, \$85,000 for a telehandler, and \$723,585 for a Vactor truck. The Vactor purchase will replace a piece of equipment that is 20 years old and has reached the end of its useable life.

Renewal & Replacement - Information Systems	
Project/System	Amount
Small Equipment (Hardware, switches, routers, computers)	\$ 476,000
New Assets (Copiers, enterprise routers, security access system)	199,000
GIS Improvements	91,000
Enterprise Resource Planning Replacement Consultant	50,000
National Institute of Standards and Technology Projects	50,000
Permit Tracking System Replacement	34,000
Electronic Content Mgmt/Electronic Records Mgmt Upgrade/Replacement	30,000
Plan Mark-Up In Field	25,000
VMware Alternatives Study	25,000
Control Logging	20,000
Total	\$ 1,000,000

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

Renewal & Replacement - Plant and Pump Station	
New Assets (Heat recovery boiler, Cogen 1 decoupling, PLC EN2TR EtherNet/IP communication module, sludge feed pump variable frequency drive (VFD), and building gas sensors)	\$ 308,500
VFD Replacement	75,000
Unplanned Maintenance	16,500
Total	\$ 400,000

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

Debt	Status	FY Issued	Maturity	Payments FY Start	FY 24/25 Principal & Interest		
					Payment Fund 80	Payment Fund 90	Total Payment
2020A Revenue Bonds	Issued	19/20	2050	19/20	\$ 1,561,760	\$ 2,070,606	\$ 3,632,366
2021A Revenue Bonds	Issued	21/22	2051	21/22	2,938,204	1,582,110	4,520,314
4 Year Interim Notes 2024A* Anticipated		24/25	2028	24/25	2,832,700	-	2,832,700
					\$ 7,332,664	\$ 3,652,716	\$ 10,985,380

* Estimated interest payment

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

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

2024A Interim Notes –The District anticipates issuing 4-year interim notes to fund the ETSU program until the WIFIA funds are available. The final amount of the issuance may change depending on the final determination of funding needs.

Water Infrastructure Finance and Innovation Act (WIFIA) Loan – In the fall of 2021 the District received a \$249 million dollar WIFIA loan to fund a portion of the ETSU program. The District will have access to these funds in early 2028, at which time the funds may be drawn to repay interim notes or to fund project costs. Repayment of the loan is expected to begin roughly one year after project completion.

State Revolving Fund (SRF) Loan – During FY 2022 the District was approved for an SRF loan in the amount of \$33.5 million to fund the Standby Power Generation System Upgrade Project. Construction began in FY 2022 and is expected to be completed in FY 2026 with the loan repayment beginning upon completion.

State Revolving Fund (SRF) Loan – During FY 2024 the District was approved for an SRF loan in the amount of \$100 million to fund a portion of the ETSU program. Funds are expected to be drawn starting in FY 2026. Loan payments will commence after the completion of the project.

SPECIAL PROJECT EXPENDITURES

DESCRIPTION	Proposed Budget FY24	Estimated Actual FY24	Estimated Carryover	New \$ (Provision)	Proposed Budget FY25
<i>Administrative & Regulatory</i>					
Anticipated Election Costs (181,798 Reg Voters at \$8 Per Voter)	\$ 1,454,384	\$ -	\$ -	\$ -	\$ -
Property Acquisition	1,500,000	48,500	1,451,500	48,500	1,500,000
<i>Subtotal Administrative & Regulatory</i>	\$ 2,954,384	\$ 48,500	\$ 1,451,500	\$ 48,500	\$ 1,500,000
<i>Studies & Other</i>					
Alvarado Basin Capacity and Condition Assessment	\$ 365,000	\$ 300,722	\$ 64,278	\$ 35,722	\$ 100,000
Alvarado Sub-Surface Investigation (Groundwater Monitoring)	10,000	11,536	-	11,000	11,000
Co-Digestion Feasibility Study	125,000	124,820	180	24,820	25,000
Cogen Replacement and Ventilation Study	-	2,200	-	-	-
Control Box No. 1 Grit Removal Evaluation	150,000	6,469	-	-	-
Cost of Service Analysis (COSA) Rate Study	-	-	-	125,000	125,000
Digester 8 Feasibility Study	-	4,826	-	-	-
Digester Efficiency Evaluation (Heat Loop and Gas Lance)	300,000	197,784	-	-	-
Energy Resiliency Study	-	3,240	-	-	-
Forcemain Condition Assessment	50,000	37,955	12,045	27,955	40,000
Newark Basin Capacity and Condition Assessment	-	-	-	75,000	75,000
Newark Basin Emergency Storage Evaluation	-	-	-	200,000	200,000
Old Alameda Creek ROWD	-	-	-	250,000	250,000
Plant Site Security Improvements	100,000	100,000	-	100,000	100,000
Project Cost Estimate Evaluation	100,000	-	50,000	-	50,000
Pump Station Asset Condition Assessment	-	1,370	-	-	-
Solids System Evaluation	-	-	-	300,000	300,000
<i>Subtotal Studies & Other</i>	\$ 1,200,000	\$ 790,922	\$ 126,503	\$ 1,149,497	\$ 1,276,000
Total Special Projects	\$ 4,154,384	\$ 839,422	\$ 1,578,003	\$ 1,197,997	\$ 2,776,000

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

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

Cost of Service Analysis (COSA) – Approximately every 5 years, the District performs a Cost of Service Analysis to determine rates for the upcoming 5 year period. The last study was completed in 2020 and provided the basis for rates through FY 2025.

Newark Basin Emergency Storage Evaluation – This special project will evaluate the feasibility of utilizing the ponds adjacent to the Old Newark Plant site as emergency storage for the Newark Basin.

Old Alameda Creek ROWD – This special project will provide assistance to District staff during the permit renewal process for the National Pollution Discharge Elimination System (NPDES) Permit for the wet weather discharge into Old Alameda Creek.

Solids System Evaluation - This special project will review the scopes for currently budgeted CIP projects and combine the outcomes of various recent studies to develop a synergistic plan for the plant's solids system. The scope will include the development of process optimization strategies, evaluation of alternative technologies, and will consider the impacts of future regulations.

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

**Annual Contract Purchases of Supplies, Services and Projects Renewal/Replacement
Over \$100,000
for Fiscal Year 24/25**

	<i>Estimated Expenditure</i>
Supplies:	
Sodium Hypochlorite, 1-year contract	\$ 3,100,000
Polymer, Emulsion, 2-Year Contract with 3 Optional 1-year renewals	965,000
Ferrous Chloride, 1-year contract	960,000
Hydrogen Peroxide, 1-Year	775,000
Polymer, Mannich, 2-Year Contract with 3 Optional 1-Year Renewals	260,000
Industrial Scientific Portable and Personal Gas Detectors	150,000
Draeger Building Mounted Gas Detectors	120,000
Sodium Hydroxide, 1-year contract	100,000
Total Supplies	\$ 6,430,000
Services:	
CalPERS Retirement	\$ 8,929,952
Series 2021A - Annual Debt Service on Bonds	4,520,314
CalPERS Medical	3,994,032
Series 2020A - Annual Debt Service on Bonds	3,632,366
PG&E Electric - Alvarado Site (\$2,700,000), Newark P.S. (\$340,614) and Irvington P.S. (\$215,000)	3,255,614
115 Pension Trust Contribution	3,000,000
Interim Notes 2024A – Interest Expense (Anticipated)	2,812,500
EBDA	1,922,000
Biosolids Contract	1,600,000
Insurance (Property & Contents, Fleet, General Liability, Bonding)	997,700
115 OPEB Retiree Medical Trust Contribution	900,000
OPEB Retiree Reimbursement	581,000
Gas Media, 2-Year Contract with 3 Optional 1-Year Renewals	347,744
DGS Natural Gas Service, PG&E Billed Through DGS	205,000
Outside Laboratory Services	178,000
5kV - 12kV - 480 Volt Breaker Maintenance	150,000
Insurance (Retro Workers' Comp- Payment 2 of 2)	114,941
Grit & Screening Disposal	110,000
Security Information and Event Management (SIEM) to Avertium	100,000
Total Services	\$37,351,163

FUND BALANCE



New ETSU Campus Building Project

Reserve/Allocation Balances	
Operating Cash Flow	\$ 29,490,811
Structural Renewal & Replacement	57,062,900
Emergency	9,500,000
Short Term Liquidity	5,000,000
Parity Debt	2,887,200
Risk Management	1,000,000
Industrial Customer Stabilization	1,550,000
EBDA Emergency	388,899
Total Restricted/Allocated Balances	\$ 106,879,810

Anticipated reserves balances at 06/30/25 listed above are discussed below:

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

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

Emergency – In order to help mitigate the financial impacts of an emergency or catastrophic event, the District has an Emergency Reserve. Reserves will increase by \$750,000 annually until reaching 25% of the operating budget or approximately \$9 million for FY 2025.

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

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

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

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

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

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CAPITAL IMPROVEMENT PLAN



ETSU Aeration Basin Project

Capital Improvement Plan

Capital improvements are construction or renovation activities that add value to the District's fixed assets (pipelines, buildings, facilities, and equipment) or significantly extend their useful life. Each year, the District reviews its 20 year Capital Improvement Program (CIP) based on factors such as growth, regulatory requirements, planning documents, and existing asset management needs. The rehabilitation, replacement, improvement, and expansion of the District's facilities continue to be the key drivers for the proposed Fiscal Year 2025 CIP. The District funds an extensive CIP plan that is designed to preserve, maintain, and enhance assets, meet regulatory requirements, accommodate the community's needs, and protect public health and the environment.

In the next 12 to 24 months the District expects to have over forty individual capital projects underway with project total expenditures currently estimated at \$523 million dollars. The following pages provide a description of those projects followed by a breakout summary of the CIP projects for the next five years. The appendix contains a detailed summary of the entire 20 year CIP budget.

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

- ETSU 1A – Campus Solar Project
- ETSU 1B – Secondary Clarifiers and Effluent Facilities
- Collection Services Building Improvements
- Battery Storage at Alvarado / Cogen No. 3 / Plant 5kV Switchgear / Plant 12kV Switchgear
- Digester 6 Rehabilitation
- Irvington Pump Station Pumps and VFDs
- FY 2024 Gravity Sewer Rehab/Replacement

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

- ETSU 1A – Campus Building and Aeration Basins
- ETSU Phase 1B (depending upon a successful bid)
- Alvarado Influent Valve Box Rehabilitation (gate valves)
- Plant Miscellaneous Improvements
- Standby Power Upgrade
- Force Main Corrosion Repairs – Phase 4
- Pump Station Odor Control Improvements
- Switchboard 3 and Motor Control Center 25 Replacement
- FY 2023 Cast Iron/Pipe Lining

The balance of this section of the budget provides a summary of the 20 year CIP budget. Documents include the 20 year forecast summary of CIP projects followed by a brief description of each project. The appendix contains a more detailed CIP project forecast showing projected spending for each of the years in the forecast. The total anticipated CIP expenditures over the next 20 years is \$1,655,460,000.

UNION SANITARY DISTRICT CIP FY 25 to FY 44 - 20 YEAR FORECAST SUMMARY (in millions)

Project Name	% Fund 80	% Fund 90	Rank	Total Project Cost	Spent in Prior Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30 to FY 34	FY 35 to FY 39	FY 40 to FY 44	Total
Admin Facilities														
Battery Storage at Alvarado (ER)	100%	0%	2	\$ 8,313	\$ -	\$ 192	\$ 767	\$ 3,677	\$ 3,677	\$ -	\$ -	\$ -	\$ -	\$ 8,313
Cathodic Protection Improvements	100%	0%	2	3,789	-	-	-	-	320	-	1,096	858	1,515	3,789
Collection Services Bldg. Improvements	100%	0%	1	6,874	216	505	3,813	2,340	-	-	-	-	-	6,658
ETSU - 1A - Campus Building	100%	0%	1	90,526	63,561	26,965	-	-	-	-	-	-	-	26,965
ETSU - 1A - Campus Solar Project (CS)	100%	0%	1	5,000	-	500	1,700	2,800	-	-	-	-	-	5,000
FY 24 Cathodic Protection System Improvements	100%	0%	2	517	30	125	362	-	-	-	-	-	-	487
Plant Paving	100%	0%	3	2,224	-	-	-	-	-	775	414	621	414	2,224
Radio Repeater Antenna Replacement (Mount Allison)	100%	0%	2	150	-	-	-	-	-	150	-	-	-	150
Sea-Level Rise at Alvarado	100%	0%	3	15,719	-	-	-	-	-	-	-	15,719	-	15,719
Sea-Level Rise at Force Mains	100%	0%	3	18,152	-	-	-	-	-	-	-	18,152	-	18,152
Sea-Level Rise at Lift Stations	100%	0%	3	3,694	-	-	-	-	-	-	-	3,694	-	3,694
Sea-Level Rise at Pump Stations	100%	0%	3	7,363	-	-	-	-	-	-	-	7,363	-	7,363
Solar and Batteries at Irvington PS (ER)	100%	0%	2	3,617	-	325	1,609	1,683	-	-	-	-	-	3,617
Solar and Batteries at Lift Stations (ER)	100%	0%	2	163	-	-	19	72	72	-	-	-	-	163
Solar and Batteries at Newark PS (ER)	100%	0%	2	3,075	-	-	355	1,360	1,360	-	-	-	-	3,075
Solar at Primary Clarifiers (ER)	100%	0%	2	1,858	-	-	-	-	-	-	1,036	822	-	1,858
Solar/Batteries/Inverters Replacement at Plant	50%	50%	2	10,670	-	-	106	-	-	-	816	9,478	270	10,670
Solar/Batteries/Inverters Replacement at Lift Stations	50%	50%	2	196	-	-	-	-	-	-	-	196	-	196
Solar/Batteries/Inverters Replacement at Pump Stations	50%	50%	2	3,526	-	-	-	-	-	-	-	3,526	-	3,526
				185,426	63,807	28,612	8,731	11,932	5,429	925	3,362	60,429	2,199	121,619
Collection System														
Cast Iron/Pipe Lining	100%	0%	2	7,576	-	-	-	640	-	683	1,507	2,661	2,085	7,576
Central Avenue Sewer Relocation (Newark Overpass)	100%	0%	1	2,583	-	155	2,428	-	-	-	-	-	-	2,583
FY 23 Cast Iron/Piping Lining	100%	0%	2	600	8	592	-	-	-	-	-	-	-	592
FY 24 Gravity Sewer Rehab/Replacement	100%	0%	2	2,335	105	210	2,020	-	-	-	-	-	-	2,230
Gravity Sewer Rehab/Replacement	100%	0%	2	23,015	-	-	-	194	1,750	208	6,445	5,500	8,918	23,015
RCP Sewer Rehab (Alvarado Basin)	100%	0%	1	4,900	-	200	2,200	2,500	-	-	-	-	-	4,900
RCP Sewer Rehab (Irvington Basin)	100%	0%	1	6,800	-	100	800	900	-	250	4,750	-	-	6,800
RCP Sewer Rehab (Newark Basin)	100%	0%	1	5,000	-	-	-	250	2,200	2,550	-	-	-	5,000
				52,809	113	1,257	7,448	4,484	3,950	3,691	12,702	8,161	11,003	52,696
Transport System														
Alameda Creek Crossing Lift Station	50%	50%	2	21,866	-	-	-	-	-	-	-	1,536	20,330	21,866
Equalization Storage @ Newark	0%	100%	2	34,424	-	-	-	-	-	-	-	34,424	-	34,424
Forcemain Corrosion Repairs - Phase 4	100%	0%	1	2,447	627	1,820	-	-	-	-	-	-	-	1,820
Forcemain Stabilization at Alameda Creek	100%	0%	2	1,845	45	130	670	1,000	-	-	-	-	-	1,800
Forcemain Rehabilitation	100%	0%	3	50,000	-	-	-	-	-	-	-	13,175	36,825	50,000
Irvington PS Pumps and VFDs	50%	50%	1	22,944	-	2,118	5,604	10,148	5,074	-	-	-	-	22,944
Irvington PS Rehabilitation	50%	50%	3	11,792	-	-	-	-	-	-	1,180	10,612	-	11,792
Lift Station Rehabilitation	50%	50%	3	15,844	-	-	-	-	-	-	990	-	14,854	15,844

UNION SANITARY DISTRICT CIP FY 25 to FY 44 - 20 YEAR FORECAST SUMMARY (in millions)

Newark PS/Irvington PS Portable VFD	50%	50%	2	147	101	46	-	-	-	-	-	-	-	46
Newark PS Pumps and VFDs	50%	50%	2	22,284	-	-	-	-	2,228	10,028	10,028	-	-	22,284
Newark PS Rehabilitation	50%	50%	3	10,018	-	-	-	-	-	-	-	10,018	-	10,018
PS Odor Control Improvements	45%	55%	2	8,989	476	3,044	5,469	-	-	-	-	-	-	8,513
Stevenson Blvd. Lift Station	0%	100%	2	3,100	-	100	200	1,350	1,450	-	-	-	-	3,100
Transport System Misc. Projects	100%	0%	3	4,750	-	-	250	250	250	250	1,250	1,250	1,250	4,750
				210,450	1,249	7,258	12,193	12,748	9,002	10,278	13,448	71,015	73,259	209,201
Treatment Plant														
Alvarado Influent Valve Box Gate Valves 1-2	100%	0%	2	1,400	300	1,100	-	-	-	-	-	-	-	1,100
Centrifuge Rebuild and VFD Replacement	100%	0%	2	3,000	-	-	-	1,500	1,500	-	-	-	-	3,000
Centrifuge Replacement	50%	50%	2	49,692	-	-	-	-	-	-	-	36,398	13,294	49,692
Cogen Engine No. 1 60K Block Replacement	50%	50%	1	3,200	-	800	-	-	-	-	1,050	-	1,350	3,200
Cogen Engine No. 2 60K Block Replacement	50%	50%	1	2,200	-	-	-	-	-	-	950	1,250	-	2,200
Cogen Engine No. 3 (ER)	50%	50%	2	15,486	-	356	1,430	6,850	6,850	-	-	-	-	15,486
Cogen Ventilation System Improvements	50%	50%	2	786	-	-	70	358	358	-	-	-	-	786
Cogen Retrofit	50%	50%	2	3,002	-	-	-	-	-	-	3,002	-	-	3,002
Control Box No. 1 Improvements	100%	0%	2	8,809	-	-	-	-	766	5,630	2,413	-	-	8,809
Degritter Building Roof (Seismic) Replacement	100%	0%	2	7,290	-	-	-	-	-	-	-	817	6,473	7,290
Degritting at Headworks and Improvements	50%	50%	2	52,157	-	-	-	-	-	-	-	52,157	-	52,157
Diffuser Replacement	100%	0%	3	2,092	-	-	-	-	-	-	504	1,588	-	2,092
Digester No. 1 Insp & Rehab	100%	0%	2	11,039	-	-	-	459	1,453	2,180	-	3,852	3,095	11,039
Digester No. 2 Insp & Rehab	100%	0%	2	6,303	-	-	-	-	-	-	686	5,617	-	6,303
Digester No. 3 Insp & Rehab	100%	0%	2	5,716	-	-	-	-	-	-	5,716	-	-	5,716
Digester No. 4 Insp & Rehab	100%	0%	2	13,125	-	-	-	547	1,790	2,685	-	5,215	2,888	13,125
Digester No. 5 Insp & Rehab	100%	0%	2	14,979	-	-	-	-	-	678	5,368	-	8,933	14,979
Digester No. 6 Insp & Rehab	100%	0%	1	20,118	378	504	5,592	2,796	-	-	-	10,848	-	19,740
Digester No. 7 Insp & Rehab	100%	0%	3	14,232	-	-	-	-	-	-	1,550	12,682	-	14,232
ETSU - 1A - Aeration Basin Modifications	60%	40%	1	89,758	27,072	27,118	21,118	14,450	-	-	-	-	-	62,686
ETSU - 1A - Aeration Basin No. 8	40%	60%	1	10,746	5,318	5,428	-	-	-	-	-	-	-	5,428
ETSU - 1A - Aeration Internal Lift Pumps	60%	40%	1	3,594	684	2,910	-	-	-	-	-	-	-	2,910
ETSU - 1A - Blower 7-10 Replacement	60%	40%	1	3,322	1,888	1,434	-	-	-	-	-	-	-	1,434
ETSU - 1A - Plant 12kV Switchgear (SWGR-SE)	100%	0%	1	9,329	2,488	2,850	3,991	-	-	-	-	-	-	6,841
ETSU - 1A - Site Drainage Improvements	50%	50%	1	4,738	1,876	2,862	-	-	-	-	-	-	-	2,862
ETSU - 1B - Secondary Clarifiers	60%	40%	1	177,596	4,382	4,300	49,000	57,077	42,837	20,000	-	-	-	173,214
ETSU - 1B - Switchboard 4 Replacement	60%	40%	1	1,990	-	450	1,540	-	-	-	-	-	-	1,990
ETSU - 1B - Effluent Facilities	60%	40%	1	58,238	-	1,400	12,100	22,230	16,508	6,000	-	-	-	58,238
ETSU - 1C - Plant Equalization Storage	25%	75%	1	39,618	-	-	-	1,200	1,800	9,155	27,463	-	-	39,618
ETSU - Phase 2	50%	50%	3	298,360	-	-	-	-	-	-	-	-	298,360	298,360
Flares Replacement	100%	0%	2	8,758	-	-	-	-	-	-	8,758	-	-	8,758
MCC Replacement	100%	0%	2	590	-	-	-	-	-	66	524	-	-	590
Miscellaneous Improvements	100%	0%	2	7,089	4,062	3,027	-	-	-	-	-	-	-	3,027
Odor Scrubber Replacements (HW & West PCs)	100%	0%	2	24,620	-	-	-	-	-	-	24,620	-	-	24,620
Odor Scrubber Replacements (East PCs)	100%	0%	2	13,187	-	100	300	-	255	701	11,831	-	-	13,187
Odor Scrubber System Improvements	100%	0%	2	42,571	-	-	-	-	-	-	4,884	25,631	12,056	42,571

UNION SANITARY DISTRICT CIP FY 25 to FY 44 - 20 YEAR FORECAST SUMMARY (in millions)														
Plant 1 and 2 Water System Improvements	100%	0%	2	1,256	-	-	-	-	115	1,141	-	-	-	1,256
Plant 5kV Switchgear	100%	0%	2	4,790	-	101	418	2,990	1,281	-	-	-	-	4,790
Plant 12kV Switchgear	100%	0%	2	11,573	-	244	1,009	7,224	3,096	-	-	-	-	11,573
Plant Additional Power Source	50%	50%	3	10,330	-	-	-	-	-	-	-	516	9,814	10,330
Plant Asset Condition Assessment R&R	100%	0%	2	91,868	-	-	-	-	979	827	18,865	1,051	70,146	91,868
Plant Mechanical and Electrical Projects	100%	0%	2	9,000	-	-	-	500	500	500	2,500	2,500	2,500	9,000
PLC Replacement	100%	0%	2	1,200	-	-	-	-	-	-	350	400	450	1,200
Primary Clarifier (1 - 4) Seismic Upgrade	75%	25%	2	7,741	-	-	-	-	-	-	7,741	-	-	7,741
Primary Clarifier Rehab (5-6)	100%	0%	2	34,380	-	-	-	-	686	2,828	30,866	-	-	34,380
Secondary Digester No. 1 Insp & Rehab	100%	0%	3	5,403	-	-	-	-	-	-	-	5,403	-	5,403
Secondary Digester No. 2 Insp & Rehab	100%	0%	3	7,145	-	-	-	134	1,245	-	-	5,766	-	7,145
Seismic Retrofit of Conc. Structures	100%	0%	2	3,000	-	-	300	-	300	-	900	600	900	3,000
Standby Power Generation System Upgrade	0%	100%	1	27,754	23,172	1,444	3,138	-	-	-	-	-	-	4,582
Standby Power Generator No. 4	100%	0%	3	29,997	-	-	-	-	-	-	-	-	29,997	29,997
Switchboard 3 and MCC 25 Replacement	100%	0%	2	2,690	267	1,253	1,170	-	-	-	-	-	-	2,423
Thermal Dryer	60%	40%	2	33,425	-	-	-	-	-	-	27,443	5,982	-	33,425
Thickeners 1 and 2 Rehabilitation	100%	0%	2	3,432	-	275	2,210	947	-	-	-	-	-	3,432
Thickeners 3 and 4 Rehabilitation	100%	0%	3	3,708	-	-	-	-	-	-	638	3,070	-	3,708
WAS Thickeners	100%	0%	1	27,744	1,335	50	1,305	7,516	10,022	7,516	-	-	-	26,409
				\$1,345,166	\$ 73,222	\$ 58,006	\$ 104,691	\$ 126,778	\$ 92,341	\$ 59,907	\$ 188,622	\$ 181,342	\$ 460,256	\$ 1,271,944

Total Administrative	\$ 185,426	\$ 63,807	\$ 28,612	\$ 8,731	\$ 11,932	\$ 5,429	\$ 925	\$ 3,362	\$ 60,429	\$ 2,199	\$ 121,619
Total Collection System	52,809	113	1,257	7,448	4,484	3,950	3,691	12,702	8,161	11,003	52,696
Total Transport	210,450	1,249	7,258	12,193	12,748	9,002	10,278	13,448	71,015	73,259	209,201
Total Treatment Plant	1,345,166	73,222	58,006	104,691	126,778	92,341	59,907	188,622	181,342	460,256	1,271,944
Grand Total	\$1,793,851	\$ 138,391	\$ 95,133	\$ 133,063	\$ 155,942	\$ 110,722	\$ 74,801	\$ 218,134	\$ 320,948	\$ 546,717	\$ 1,655,460
Repair & Replacement (Fund 800) Total	\$1,258,745	\$ 97,168	\$ 70,522	\$ 89,609	\$ 107,511	\$ 76,929	\$ 52,521	\$ 175,616	\$ 221,288	\$ 367,581	\$ 1,161,577
Capacity (Fund 900) Totals	535,106	41,224	24,611	43,454	48,431	33,793	22,280	42,518	99,660	179,136	493,883
	\$1,793,851	\$ 138,391	\$ 95,133	\$ 133,063	\$ 155,942	\$ 110,722	\$ 74,801	\$ 218,134	\$ 320,948	\$ 546,717	\$ 1,655,460
Repair & Replacement (Fund 800) Total - 90% to FY 24 Budget			\$ 63,470								
Capacity (Fund 900) Totals - 90% to FY 24 Budget			22,150								
			\$ 85,620								

UNION SANITARY DISTRICT CIP FY 25 to FY 44 - 20 YEAR FORECAST SUMMARY (in millions)

Priority 1 Administrative	\$ 102,400	\$ 63,777	\$ 27,970	\$ 5,513	\$ 5,140	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,623
Priority 1 Collection System	19,283	-	455	5,428	3,650	2,200	2,800	4,750	-	-	19,283
Priority 1 Transport	25,391	627	3,938	5,604	10,148	5,074	-	-	-	-	24,764
Priority 1 Treatment & Disposal	479,945	68,593	51,550	97,784	105,269	71,167	42,671	29,463	12,098	1,350	411,352
Total Priority 1	627,019	132,997	83,913	114,329	124,207	78,441	45,471	34,213	12,098	1,350	494,022
Priority 2 Administrative	35,874	30	642	3,218	6,792	5,429	150	2,948	14,880	1,785	35,844
Priority 2 Collection System	33,526	113	802	2,020	834	1,750	891	7,952	8,161	11,003	33,413
Priority 2 Transport	92,655	622	3,320	6,339	2,350	3,678	10,028	10,028	35,960	20,330	92,033
Priority 2 Treatment & Disposal	493,954	4,629	6,456	6,907	21,375	19,929	17,236	156,467	140,219	120,735	489,325
Total Priority 2	656,008	5,394	11,220	18,484	31,351	30,786	28,305	177,395	199,220	153,853	650,614
Priority 3 Administrative	47,152	-	-	-	-	-	775	414	45,549	414	47,152
Priority 3 Collection System	-	-	-	-	-	-	-	-	-	-	-
Priority 3 Transport	92,404	-	-	250	250	250	250	3,420	35,055	52,929	92,404
Priority 3 Treatment & Disposal	371,267	-	-	-	134	1,245	-	2,692	29,025	338,171	371,267
Total Priority 3	510,823	-	-	250	384	1,495	1,025	6,526	109,629	391,514	510,823
Grand Total	\$1,793,851	\$ 138,391	\$ 95,133	\$ 133,063	\$ 155,942	\$ 110,722	\$ 74,801	\$ 218,134	\$ 320,948	\$ 546,717	\$ 1,655,460

CIP Project Descriptions

Project Name	Description
Battery Storage at Alvarado (ER)	This project is one of the outcomes of the Energy Resiliency Study. Batteries will provide energy storage at the plant and savings on peak demand charges.
Cathodic Protection Improvements	These projects will replace existing cathodic protection systems at the plant, pump stations, and force mains. The purpose of the cathodic protection systems is to prevent the corrosion of buried steel, ductile iron, and cast-iron pipelines, fittings, and other structures. District staff surveys and tests all its cathodic protection systems annually and will hire a consultant to determine if any of the systems need to be replaced. This includes budgets for multiple phases of work.
Collection Services Building Improvements	This project will provide improvements to the existing Collection Services Building to address water intrusion; replace obsolete mechanical, electrical and plumbing systems; upgrade the building to meet current building and seismic codes; and modify the layout to utilize the available space more efficiently.
ETSU - 1A - Campus Building	This project will replace the existing Administration, Operations/Control, and Facilities Maintenance buildings with a single combined Campus Building.
ETSU - 1A - Campus Solar Project (CS)	This project will replace the roof of the existing Covered Vehicle Storage at the plant and install solar panels on top.
FY 2024 Cathodic Protection System Improvements	The FY 2024 Cathodic Protection System Improvements Project is the next project that will replace existing cathodic protection systems at the plant, pump stations, and force mains.
Plant Paving	These projects will repair and/or replace the asphalt pavement at the plant. The scope will be based on the condition of the existing asphalt pavement and in coordination with other construction projects. District staff will hire a consultant to conduct a condition assessment of the existing asphalt pavement every 5 to 10 years to determine the remaining useful life and recommend a repair/replacement schedule.
Radio Repeater Antenna Replacement (Mount Allison)	This project will replace the District's radio repeater antenna located on Mt. Allison in Fremont, CA.
Sea-Level Rise at Alvarado	This project is one of the outcomes of the Sea-Level Rise Vulnerability Assessment and Adaptation Plan Study. The scope will include improvements to the existing levees and construction of a new wall and floodgates at the plant.
Sea-Level Rise at Force Mains	This project is one of the outcomes of the Sea-Level Rise Vulnerability Assessment and Adaptation Plan Study. The scope will include raising access manholes and various improvements at 52 locations along the twin force mains.
Sea-Level Rise at Lift Stations	This project is one of the outcomes of the Sea-Level Rise Vulnerability Assessment and Adaptation Plan Study. The scope will include construction of new walls and floodgates at the Fremont and Paseo Padre lift stations.
Sea-Level Rise at Pump Stations	This project is one of the outcomes of the Sea-Level Rise Vulnerability Assessment and Adaptation Plan Study. The scope will include improvements to the existing levees and construction of new walls and floodgates at the Irvington and Newark pump stations.

Solar and Batteries at Irvington Pump Station (ER)	This project is one of the outcomes of the Energy Resiliency Study. The scope will include the replacement of the existing solar facility at the Irvington Pump Station with a new combined solar and battery system.
Solar and Batteries at Lift Stations (ER)	This project is one of the outcomes of the Energy Resiliency Study. The scope will include installation of solar and battery systems at the lift stations.
Solar and Batteries at Newark Pump Station (ER)	This project is one of the outcomes of the Energy Resiliency Study. The scope will include installation of a combined solar and battery system at the Newark Pump Station.
Solar at Primary Clarifiers (ER)	This project is one of the outcomes of the Energy Resiliency Study. The scope will include installation of solar panels on the roof the primary clarifier buildings at the plant.
Solar/Batteries/Inverters Replacement at Plant	These projects will replace the solar panels, batteries, and/or power inverters for the photovoltaic systems located at the plant. The schedule of replacement is based on a 20-year useful life for solar panels and a 10-year useful life for batteries and power inverters.
Solar/Batteries/Inverters Replacement at Lift Stations	These projects will replace the solar panels, batteries, and/or power inverters for the photovoltaic systems located at the lift stations. The schedule of replacement is based on a 20-year useful life for solar panels and a 10-year useful life for batteries and power inverters.
Solar/Batteries/Inverters Replacement at Pump Stations	These projects will replace the solar panels, batteries, and/or power inverters for the photovoltaic systems located at the pump stations. The schedule of replacement is based on a 20-year useful life for solar panels and a 10-year useful life for batteries and power inverters.
Cast Iron/Pipe Lining	These projects will install cured-in-place pipe (CIPP) liners inside existing cast iron and/or other aged sewer mains to rehabilitate the lines without trenching. District staff review CCTV inspections of sewer mains and identify mains that are candidates for CIPP rehabilitation. This includes budgets for multiple phases of work.
Central Avenue Sanitary Sewer Relocation	This project will relocate an existing sewer main on Central Avenue in the City of Newark to accommodate the City's plans to construct an overpass above the railroad crossing.
FY 2023 Cast Iron/Piping Lining	The FY 2023 Cast Iron/Piping Lining Project is the next project that will install cured-in-place pipe (CIPP) liners inside existing cast iron and/or other aged sewer mains. District staff began designing this project in 2023 and construction is anticipated to begin in early 2025.
FY 2024 Gravity Sewer Rehabilitation/Replacement	The FY 2024 Gravity Sewer Rehabilitation/Replacement Project is the next project that will rehabilitate/replace existing deteriorated and/or under capacity sewer mains by open cut trenching. District staff began designing this project in FY 2024 and construction is anticipated to begin in late 2025.
Gravity Sewer Rehabilitation/Replacement	This project will rehabilitate/replace existing deteriorated and/or under capacity sewer mains by open cut trenching. District staff review CCTV inspections of sewer mains and identify the mains that are candidates for rehabilitation/replacement. This includes budgets for multiple phases of work.
RCP Sewer Rehab (Alvarado Basin)	This project will rehabilitate deteriorated sewer trunk mains located in the Alvarado Basin that are primarily reinforced concrete pipe (RCP) by the CIPP method. The project timing will correspond with the completion of the Alvarado Basin Capacity and Condition Assessment, which is scheduled for early FY 2025.

RCP Sewer Rehab (Irvington Basin)	This project will rehabilitate deteriorated sewer trunk mains located in the Irvington Basin that are primarily reinforced concrete pipe (RCP) by the CIPP method. The project timing will correspond with the completion of the Irvington Basin Capacity and Condition Assessment.
RCP Sewer Rehab (Newark Basin)	This project will rehabilitate deteriorated sewer trunk mains located in the Newark Basin that are primarily reinforced concrete pipe (RCP) by the CIPP method. The project timing will correspond with the completion of the Newark Basin Capacity and Condition Assessment.
Alameda Creek Crossing Lift Station	This project will construct a new lift station south of the Alameda Creek (near Paseo Padre Parkway and Ardenwood Boulevard) to transport wastewater from south to north over the Alameda Creek crossing on Paseo Padre Parkway.
Equalization Storage @ Newark	This project will construct equalization storage at the Newark Pump Station.
Forcemain Corrosion Repairs - Phase 4	This is the fourth and final phase of projects to repair and/or replace corroded steel fittings, pipes, and valves in the manholes along the east forcemain between Irvington Pump Station and Newark Pump Station. Construction is in progress and scheduled to be completed in FY 2025.
Forcemain Stabilization at Alameda Creek	This project will construct improvements to stabilize the soil adjacent to the twin forcemains at the Alameda Creek crossing. The purpose of these improvements is to reduce the likelihood that the forcemains are damaged during significant seismic events in the region. District staff began the preliminary design for this project in FY 2024 and the design is anticipated to continue through 2025.
Forcemain Rehabilitation	This project will rehabilitate the twin forcemains when the reinforced concrete pipes show signs of corrosion and/or deterioration.
Irvington Pump Station Pumps and VFDs	The scope of this project includes the replacement of the wastewater pumps, variable frequency drives, and backup generator at the Irvington Pump Station.
Irvington Pump Station Rehabilitation	The scope of this project includes the replacement of major electrical equipment, fuel and hydropneumatic tank, and pumps/pipes/valves that serve the washdown booster pumps and equalization basin at Irvington Pump Station.
Lift Station Rehabilitation	The scope of this project includes rehabilitation/replacement of assets that are approaching the end of their useful lives within the next 10 years and performing arc flash study of all electrical equipment at Boyce Lift Station, Fremont Lift Station, and Paseo Padre Lift Station.
Newark PS/Irvington PS Portable VFD	This project will purchase a portable VFD that can be used at either Newark Pump Station or Irvington Pump Station if an existing VFD fails. The existing VFDs are obsolete as replacement parts are no longer available from the manufacturer. Procurement of this portable VFD is in progress and with expected delivery in early FY 2025.
Newark PS Pumps and VFDs	The scope of this project includes the replacement of the wastewater pumps, variable frequency drives, and backup generator at the Newark Pump Station.
Newark PS Rehabilitation	The scope of this project includes the replacement of major electrical equipment at the dry well and wet well, fuel tank and valve box rehabilitation at the Newark Pump Station.

Pump Station Odor Control Improvements	This project will replace the existing odor control systems at Newark Pump Station and Irvington Pump Station. The scope will also include the rehabilitation of the chemical containment area and replacing the chemical system pumps/piping at the Irvington Pump Station. Design is in progress and construction is scheduled to begin in FY 2025.
Stevenson Blvd. Lift Station	This project will design and construct a new Stevenson Blvd. Lift Station to replace the existing Cherry Street Pump Station. The new station will handle the new flows from new developments, the current flows to the Cherry Street Pump Station, and other future flows identified in the City of Newark's general plan.
Transport System Misc. Projects	These projects are for making miscellaneous improvements to transport system, which includes the pump stations, lift stations, and force mains.
Alvarado Influent Valve Box Gate Valves 1-2	This project will replace the force main knife gate valves at the Alvarado Influent Valve Box and the Headworks Valve Box. Construction is in progress and scheduled to be completed in FY 2025.
Centrifuge Rebuild and VFD Replacement	This project will rebuild the existing centrifuges and replace the VFDs in the Centrifuge Building.
Centrifuge Replacement	This project will replace the existing centrifuges, pumps, conveyors, piping, and electrical equipment in the Centrifuge Building.
Cogen Engine No. 1 60K Block Replacement	This project will replace the engine block after the current engine block on Cogen No. 1 has operated for 60,000 hours.
Cogen Engine No. 2 60K Block Replacement	This project will replace the engine block after the current engine block on Cogen No. 2 has operated for 60,000 hours.
Cogen Engine No. 3 (ER)	This project is one of the outcomes of the Energy Resiliency Study. Cogen Engine No. 3 will provide added resiliency, simplify maintenance for the existing engines, and provide an additional heat source for the digesters.
Cogen Ventilation System Improvements	This project will provide improvements to enhance airflow, eliminate short circuiting, reduce dust accumulation, and extend the life of the generators and electronics in the Cogeneration System Building.
Cogen Retrofit	This project will install Selective Catalytic Reduction or other required emissions control systems for the existing cogen units if the Bay Area Air Quality Management District's permit reduces the nitrogen oxide emissions limit.
Control Box No. 1 Improvements	This project will rehabilitate or replace structural and mechanical components at Control Box No. 1 and the Headworks Valve Box.
Degritter Building Roof (Seismic) Replacement	This project will replace the precast concrete roof panels of the Degritter Building to address seismic deficiencies identified in the 2016 Seismic Study.
Degritting at Headworks and Improvements	This project will construct a new facility and equipment to remove grit from the influent wastewater at the Headworks Building.
Diffuser Replacement	This project will replace the aeration diffusers in the aeration basins.

Digester No. 1 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Primary Digester No. 1 and its associated equipment, piping, and valves.
Digester No. 2 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Primary Digester No. 2 and its associated equipment, piping, and valves.
Digester No. 3 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Primary Digester No. 3 and its associated equipment, piping, and valves.
Digester No. 4 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Primary Digester No. 4 and its associated equipment, piping, and valves.
Digester No. 5 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Primary Digester No. 5 and its associated equipment, piping, and valves.
Digester No. 6 Insp & Rehab	This project will rehabilitate Primary Digester No. 6 and its associated equipment, piping, and valves. District staff completed a condition assessment and began designing this project in FY 2024. Design will continue into FY 2025.
Digester No. 7 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Primary Digester No. 7 and its associated equipment, piping, and valves.
ETSU - 1A - Aeration Basin Modifications	This project will modify Aeration Basins 1 through 7 to improve the plant's activated sludge system.
ETSU - 1A - Aeration Basin No. 8	This project will construct new Aeration Basin 8 to increase the plant's activated sludge system's capacity.
ETSU - 1A - Aeration Internal Lift Pumps	This project will replace the three carbon steel lift pumps at Lift Station 2.
ETSU - 1A - Blower 7-10 Replacement	This project will replace Blowers 7 through 10 with high-speed aeration blowers.
ETSU - 1A - Plant 12kV Switchgear	This project will construct a new 12,000-volt utility switchgear located near the Veasy Street entrance.
ETSU - 1A - Site Drainage Improvements	This project will construct a new site drainage pump station located on the north side of the treatment plant property. This station will supplement the site drainage capacity of the existing Site Waste Pump Station.
ETSU - 1B - Secondary Clarifiers	This project will construct four new secondary clarifiers.
ETSU - 1B - Switchboard 4 Replacement	This project will replace the 480-volt Switchboard 4.
ETSU - 1B - Effluent Facilities	This project will replace the chlorine contact tank, final effluent pump station, and reclaimed water pump station.
ETSU - 1C - Plant Equalization Storage	This project will construct primary effluent equalization storage at the existing Secondary Clarifiers 1 through 4 structures.

ETSU – Phase 2	This project will design and construct Phase 2 of the Enhanced Treatment and Site Upgrade Program.
Flares Replacement	This project will replace the digester gas flare system when required by future regulations.
MCC Replacement	This project will replace electrical motor control centers that have reached the end of their useful life.
Miscellaneous Improvements	This project will rehabilitate or replace miscellaneous structural and electrical improvements at various facilities in the plant. Construction is in progress and scheduled to be completed in FY 2025.
Odor Scrubber Replacements (HW & West PCs)	This project will replace the existing odor control system at the Headworks Building and Primary Clarifiers 1-4 Building.
Odor Scrubber Replacements (East PCs)	This project will replace the existing odor control system at the Primary Clarifiers 5-6 Building.
Odor Scrubber System Improvements	This project will replace the odor control systems at the Alvarado Influent Pump Station, Centrifuge Building, WAS Thickening Building, Gravity Thickeners, and Degritter Building.
Plant 1 and 2 Water System Improvements	This project will construct a booster pump station to improve the capacity and pressure of the plant's 1 and 2 water systems.
Plant 12kV Switchgear	This project will replace the plant's existing 12,000-Volt utility switchgear located in the Main Electrical Building.
Plant 5kV Switchgear	This project will replace the plant's 4,160-volt switchgear located in the Main Electrical Building.
Plant Additional Power Source	This is for a project to install a secondary electrical feed from PG&E to accommodate anticipated future higher power demand at the plant.
Plant Asset Condition Assessment R&R	These are for replacing equipment at the plant based on recommendations from the 2018 Plant Asset Condition Assessment Study, and any subsequent updates.
Plant Mechanical and Electrical Projects	These projects are for making miscellaneous improvements to the mechanical and electrical assets at the plant.
PLC Replacement	These are to replace the processor modules in the plant's programmable logic controllers located at all process areas.
Primary Clarifier (1 - 4) Seismic Upgrade	This project will upgrade the Primary Clarifiers 1 through 4 Building's structure to address seismic deficiencies identified in the 2016 Seismic Study.
Primary Clarifier Rehab (5-6)	This project will replace the clarifier mechanisms, modify the ventilation system, and rehabilitate the structural components of the Primary Clarifiers 5 and 6 Building, including Sludge Pump Room 3.
Secondary Digester No. 1 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Secondary Digester No. 1 and its associated equipment, piping, and valves.

Secondary Digester No. 2 Insp & Rehab	This project will conduct a condition assessment and rehabilitate Secondary Digester No. 2 and its associated equipment, piping, and valves.
Seismic Retrofit of Conc. Structures	These projects are for making seismic retrofits to the concrete structures at the plant.
Standby Power Generation System Upgrade	This project will replace the plant's existing standby generators, Substation No. 2, and the electrical switchgear and motor control centers located in the Odor Control Building. Construction is in progress and will continue in FY 2025.
Standby Power Generator No. 4	This project will install a fourth standby generator in the new Standby Power Building if the plant's power demand increases in the future.
Switchboard 3 and MCC 25 Replacement	This project will replace Switchboard 3 and Motor Control Center (MCC) 25 located in the Main Electrical Building.
Thermal Dryer	This project is one of the outcomes of the Thermal Dryer Feasibility Study. Paddle dryers will be installed near the existing Dewatering Building dependent on future handling costs and/or land application restrictions for Class "B" biosolids.
Thickeners 1 and 2 Rehabilitation	This project will replace the thickener mechanism and rehabilitate the concrete at Thickeners 1 and 2.
Thickeners 3 and 4 Rehabilitation	This project will replace the thickener mechanism and rehabilitate the concrete at Thickeners 3 and 4.
WAS Thickeners	This project will replace the gravity belt thickeners, pumps, motor control center, and programmable logic controller in the WAS Thickener Building.

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ABOUT USD



View Northward over the Secondary Clarifiers

About USD

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

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

Today, USD's service area covers over 60 square miles (about 38,400 acres) and serves over 344,000 residents in the cities of Fremont, Newark, and Union City, with over 120,000 residential, commercial, and industrial connections. Total flow to the Alvarado Treatment Plant in Union City was over 8.8 billion gallons in 2023, and averages between 24 and 25 million gallons every day with a permitted capacity of up to 33 million gallons per day.

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

The Communities We Serve

The District provides wastewater collection, treatment and disposal services to the residents and businesses of the cities of Fremont, Newark, and Union City, commonly referred to as the Tri-City Area, with a combined population of over 344,000. Information obtained from each city is presented below.

The City of Fremont

Located on the southeast side of the San Francisco Bay, Fremont is a city of 229,476 people and 74,629 households, with an area of 92-square miles. Fremont remains the fourth most populous city in the Bay Area and California's 16th largest city. With its moderate climate and its proximity to major universities, shopping areas, recreation and cultural activities, employment centers, major airports, and the Bay Area Rapid Transit system, Fremont captures metropolitan living at its best.

Fremont is conveniently served by Interstates 680 and 880, as well as rail transport lines including Altamont Commuter Express (ACE), Amtrak Capitol Corridor, and the Bay Area Rapid Transit (BART) system. Fremont also has easy access to the San Jose Airport, Oakland Airport, San Francisco Airport,

and the Port of Oakland. Fremont is home to a broad variety of innovative firms including over 1,700 high tech, life science, and clean technology firms. The city has a broad range of quality, affordable business locations; a superior workforce; and a wide variety of tax benefits and incentive programs for businesses.

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

The City of Newark

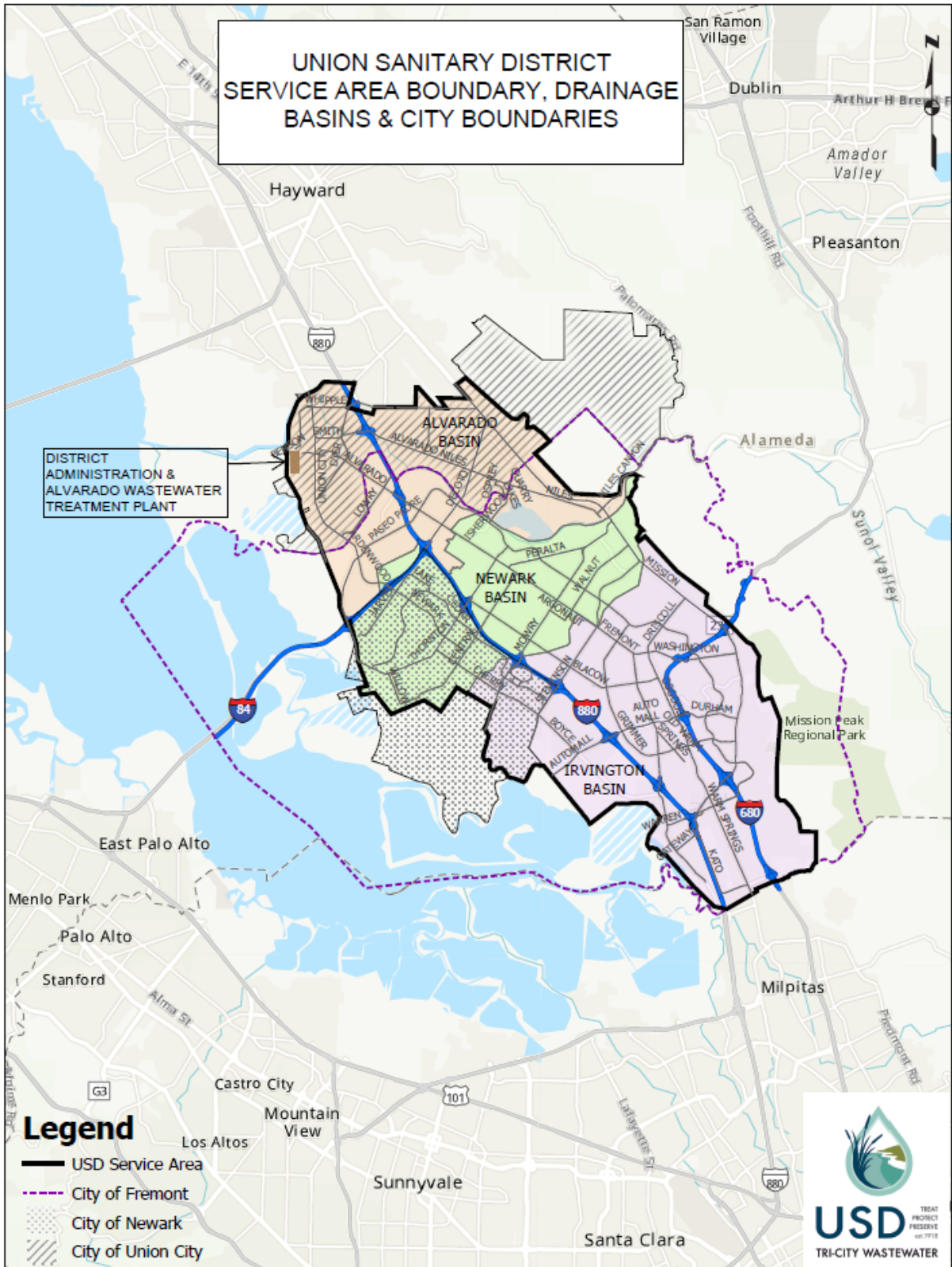
Newark has an area of 14 square miles and a population of 47,459. Newark was incorporated in 1955 and is located 35 miles south of San Francisco and next to many high-tech hubs, including easy access to highways 880, 580, 680, and the Dumbarton Corridor places Newark in an ideal location. Newark has evolved from its days enriched in agriculture, manufacturing, and railroad to today's expansion of high-tech, biotech, and the health sciences.

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

The City of Union City

Union City is 18 square miles in area, boasting a diverse and unified people, excellent educational institutions, unsurpassed quality of life, strong economy, and world-renowned location in the San Francisco Bay Area. Incorporated in 1959, the city proudly maintains a smalltown feel while being in the center of the Bay Area, with San Francisco and Silicon Valley just minutes away. Union City has grown into an ethnically diverse community of 66,754 residents, and the highly regarded New Haven Unified School District serves about 10,400 K-12 students. The community offers a variety of housing, with affordable and upscale homes available in many charming neighborhoods throughout the city. The transit oriented Station District, located around the Union City BART station, boasts housing and business development opportunities with easy, convenient access to major public transit running throughout the Bay Area. Union City also offers many wonderful parks, sports fields, community centers, and a variety of recreation programs and social services for residents of all ages.

SERVICE AREA MAP



BUDGET DOCUMENT & PROCESS



Vactor Truck Operated by the Collection Services Team

BUDGET PROCESS

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

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

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

Key budget dates are shown below:

Date	Process
Early January 2024	Budget discussions begin with all departments including FY 2023/2024 midyear and year end projections
March 13, 2024	Midyear presentation to Board with discussions on FY 2024/2025 budget drivers
April 30, 2024	Budget workshop held with Board
May 28, 2024	Presentation of the FY 2024/2025 proposed budget to the Board
June 24, 2024	Consideration of the FY 2024/2025 final budget by the Board

BUDGET REPORTING

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

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

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

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

FINANCIAL STATEMENT REPORTING

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

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OTHER INFORMATION

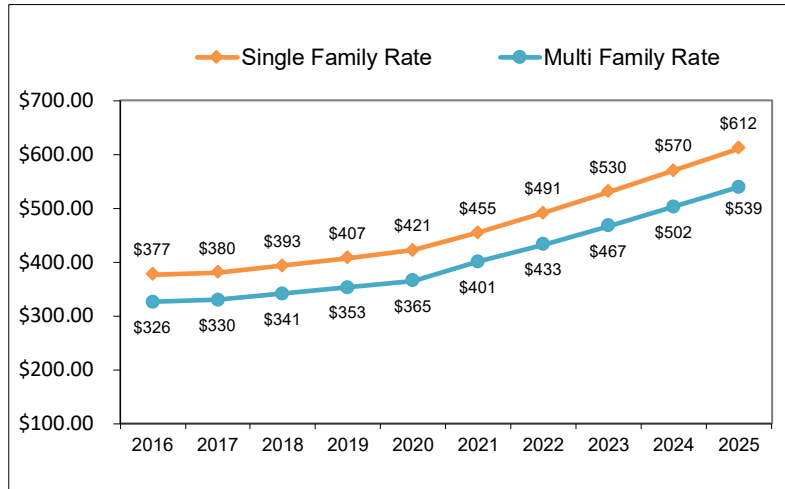


New Standby Power Building

UNION SANITARY DISTRICT
Current and Historical Fees
 As of June 30, 2025
 Last Ten Years

Sewer Service Charge Rates

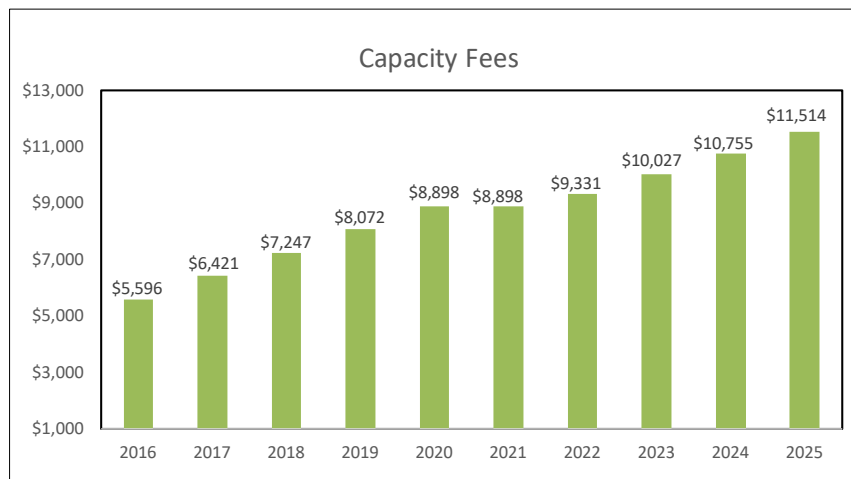
	Single Family Rate	Multi - Family Rate	Single Family Rate Percentage Change
FY 2025	\$611.58	\$538.95	7.3%
FY 2024	569.97	502.28	7.5%
FY 2023	530.21	467.24	8.0%
FY 2022	490.93	432.63	8.0%
FY 2021	454.57	400.58	7.9%
FY 2020	421.37	365.32	3.5%
FY 2019	407.12	352.97	3.5%
FY 2018	393.35	341.03	3.5%
FY 2017	380.05	329.50	0.8%
FY 2016	377.00	326.00	5.6%



The fees above are for Single and Multi-Family units. A property with multiple housing units such as an apartment complex is charged \$538.95 for each dwelling unit on the property. Fees for commercial and industrial customers are based on the volume and strength of the wastewater being treated.

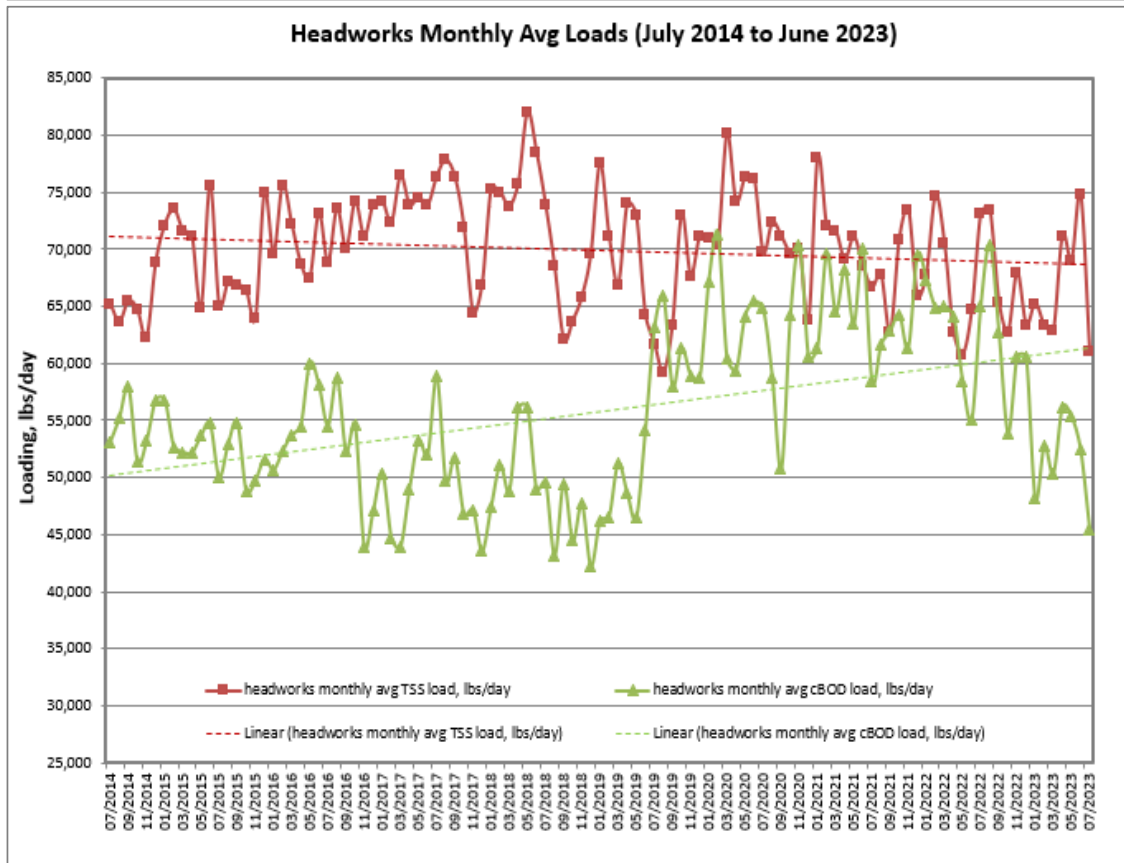
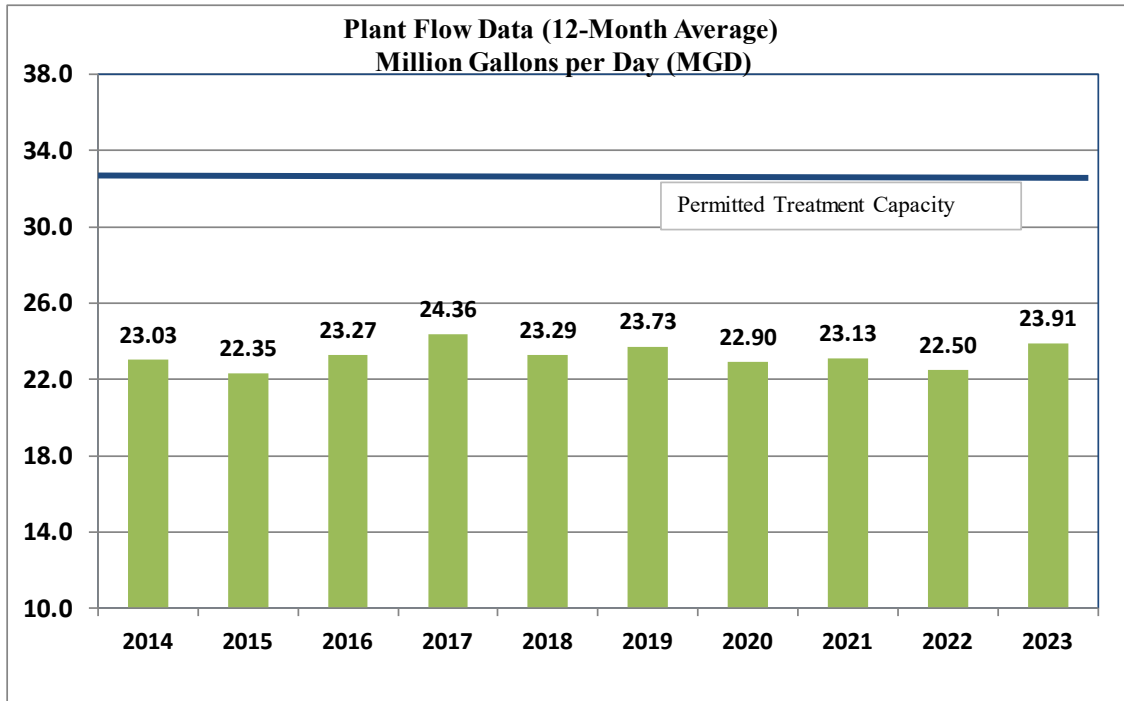
Capacity Fee Rates

		Percentage Change
FY 2025	\$11,514.00	7.1%
FY 2024	10,755.00	7.3%
FY 2023	10,027.00	7.5%
FY 2022	9,331.00	4.9%
FY 2021	8,897.71	0.0%
FY 2020	8,897.71	10.2%
FY 2019	8,072.20	11.4%
FY 2018	7,246.69	12.9%
FY 2017	6,421.17	14.8%
FY 2016	5,595.66	0.0%



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

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



Source: USD Treatment and Disposal Work Group

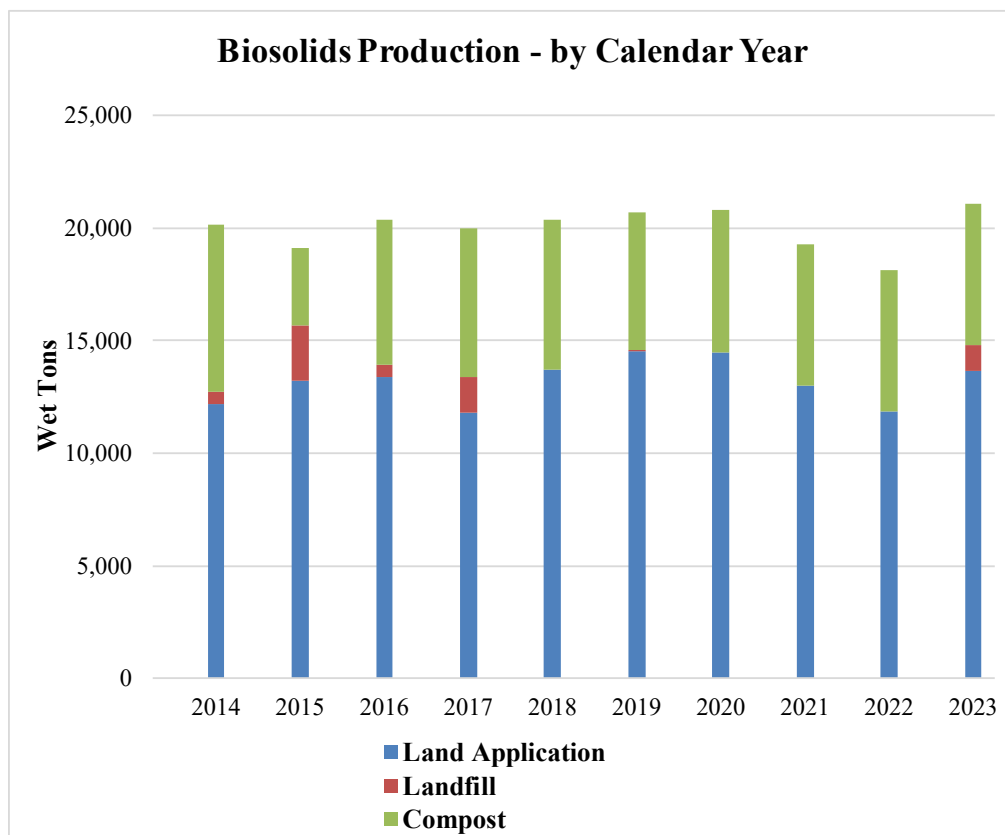
UNION SANITARY DISTRICT

Operating Indicators - Biosolids
Last Ten Calendar Years

Function/Program

Biosolids

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Land Application	12,212	13,212	13,395	11,784	13,733	14,529	14,452	12,995	11,847	13,670
Landfill	545	2,450	563	1,624	0	72	0	0	0	1,119
Compost	7,414	3,470	6,399	6,584	6,615	6,103	6,342	6,262	6,271	6,285
Total (in Wet Tons)	20,171	19,132	20,357	19,992	20,347	20,704	20,793	19,257	18,117	21,075



UNION SANITARY DISTRICT

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

Function/Program	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
System Op and Maint (CS Support, FMC, T&D, Whse)	50.45	53.45	53.45	52.45	55.45	54.45	53.45	54.45	53.45	56.45
Engineering and Construction (CIP, ETSU)	8.00	8.00	10.00	9.00	8.00	9.00	11.00	13.00	12.00	13.00
Collections System Maintenance (CS)	23.00	23.00	25.00	25.00	25.00	25.00	26.00	25.00	23.00	25.00
Office of the General Manager (GM)	1.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Finance (FAST)	5.00	5.00	5.00	3.00	5.00	6.00	5.00	5.00	5.00	5.00
Information Systems (IT)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Admin Dept (Adm Specialist, Purchasing, non-HR OST)	14.00	13.00	14.00	13.00	13.00	12.00	15.00	14.00	14.00	14.00
Customer and Community services (Rest of TS)	19.00	18.00	20.00	20.00	21.00	21.00	20.00	20.00	20.00	18.00
Human Resources (HR)	3.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Total # of Employees	128.45	131.45	136.45	131.45	136.45	136.45	139.45	140.45	136.45	140.45
Average years of service of employees as of June 30:	11.97	11.25	10.54	10.60	10.41	10.20	10.20	10.76	10.39	10.33

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

UNION SANITARY DISTRICT
Ten Principal Industrial Rate Payers by Levy
June 30, 2023

Rate Payer	2022-23		
	Total Annual Billing	Rank	% of Total Annual Billings
Tesla	\$1,865,719	1	2.39%
Mission Linen Supply	366,094	2	0.47%
Lam Research	346,268	3	0.44%
Western Digital	305,721	4	0.39%
Boehringer Ingeheim	245,876	5	0.32%
Washington Hospital	227,849	6	0.29%
Fairfield Apartments / Mixed Use	197,643	7	0.25%
Union Square Shopping Center	183,368	8	0.24%
US Pipe	181,897	9	0.23%
Ranch 99 / New ark	154,337	10	0.20%
Total annual billing largest ten:	<u>\$4,074,771</u>		<u>5.22%</u>
Total ALL annual billings	<u>\$77,986,322</u>		

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

Rate Payer	2020-21		
	Total Annual Billing	Rank	% of Total Annual Billings
Tesla	\$1,176,212	1	1.89%
Mission Linen Supply	243,523	2	0.39%
Western Digital	224,028	3	0.36%
Washington Hospital	213,400	4	0.34%
Ranch 99 / Warm Springs Shopping Center	213,196	5	0.34%
Union Square Shopping Center	212,278	6	0.34%
Lam Research	204,684	7	0.33%
US Pipe	194,164	8	0.31%
Ranch 99 / New ark	181,779	9	0.29%
Boehringer Ingeheim	168,826	10	0.27%
Total annual billing largest ten:	<u>\$3,032,089</u>		<u>4.88%</u>
Total ALL annual billings	<u>\$62,142,806</u>		

Rate Payer	2019-20		
	Total Annual Billing	Rank	% of Total Annual Billings
Tesla	\$1,381,023	1	2.29%
Washington Hospital	314,394	2	0.52%
US Pipe	244,663	3	0.41%
Western Digital	187,814	4	0.31%
Ranch 99/Warm Springs Shopping Center	161,740	5	0.27%
Union Square Shopping Center / Market Place	161,271	6	0.27%
Lam Research	160,087	7	0.27%
Ranch 99 / New ark	148,835	8	0.25%
Marriott Hotel	133,716	9	0.22%
Sterling Foods	127,508	10	0.21%
Total annual billing largest ten:	<u>\$3,021,050</u>		<u>5.02%</u>
Total ALL annual billings	<u>\$60,216,149</u>		

Rate Payer	2018-19		
	Total Annual Billing	Rank	% of Total Annual Billings
Tesla	\$1,228,862	1	2.14%
Washington Hospital	221,799	2	0.39%
US Pipe	216,296	3	0.38%
Western Digital	174,219	4	0.30%
Ranch 99 / Warm Springs Shopping Center	157,421	5	0.27%
Ranch 99 / New ark	152,401	6	0.27%
Marriott Hotel	141,572	7	0.25%
Union Square Shopping Center	138,482	8	0.24%
Lam Research	125,330	9	0.22%
Gateway Plaza Shopping Center	125,202	10	0.22%
Total annual billing largest ten:	<u>\$2,681,584</u>		<u>4.68%</u>
Total ALL annual billings	<u>\$57,330,651</u>		

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

UNION SANITARY DISTRICT

Miscellaneous Statistics

As of June 30, 2023

Governing Body:	Elected 5-Member Board of Directors Fremont - 3 Members Newark - 1 Member Union City - 1 Member
Governmental Structure:	Established in 1918 and reorganized in 1923 under the Sanitary District Act
Staff:	140.45 full-time equivalent employees
CEO:	General Manager
CFO:	Business Services Manager
Authority:	California Health and Safety Code Section 4700 et. Seq.
Services:	Wastewater collection, treatment and disposal
Service Area:	60.2 square miles (Annexed areas - Fremont, Newark and Union City)
Total Population Served:	343,680
Number of Parcels	102,392 (91,692 Residential; 3,113 Non-Residential; 7,587 Other (vacant land))
Collection & Transport System:	Total miles of pipeline - 839, including the force main and all gravity sewers (including trunk mains) Number of pumping stations - 7 Pump Stations: Irvington, Newark, Alvarado Lift Stations: Fremont, Boyce, Paseo Padre, Cherry Street 17,300 manholes
Permitted Plant Treatment Capacity (ADWF)	33 million gallons per day (mgd)
Type of Treatment:	Secondary
Sewer Service Charge:	\$530.21 annually per single family residential dwelling unit

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APPENDIX



Looking West from USD Treatment Plant in Union City – San Francisco Bay and Estuary



Principal Officials

Board Member	Position	City Represented	Year Elected	Term Expires
Jennifer Toy	President	Fremont, Ward 3	1998	2026
Tom Handley	Vice President	Fremont, Ward 3	2007	2026
Pat Kite	Secretary	Newark, Ward 2	1991	2028
Manny Fernandez	Secretary Pro Tem	Union City, Ward 1	2011	2028
Anjali Lathi	Director	Fremont, Ward 3	2002	2028

Board positions effective 04/22/2024

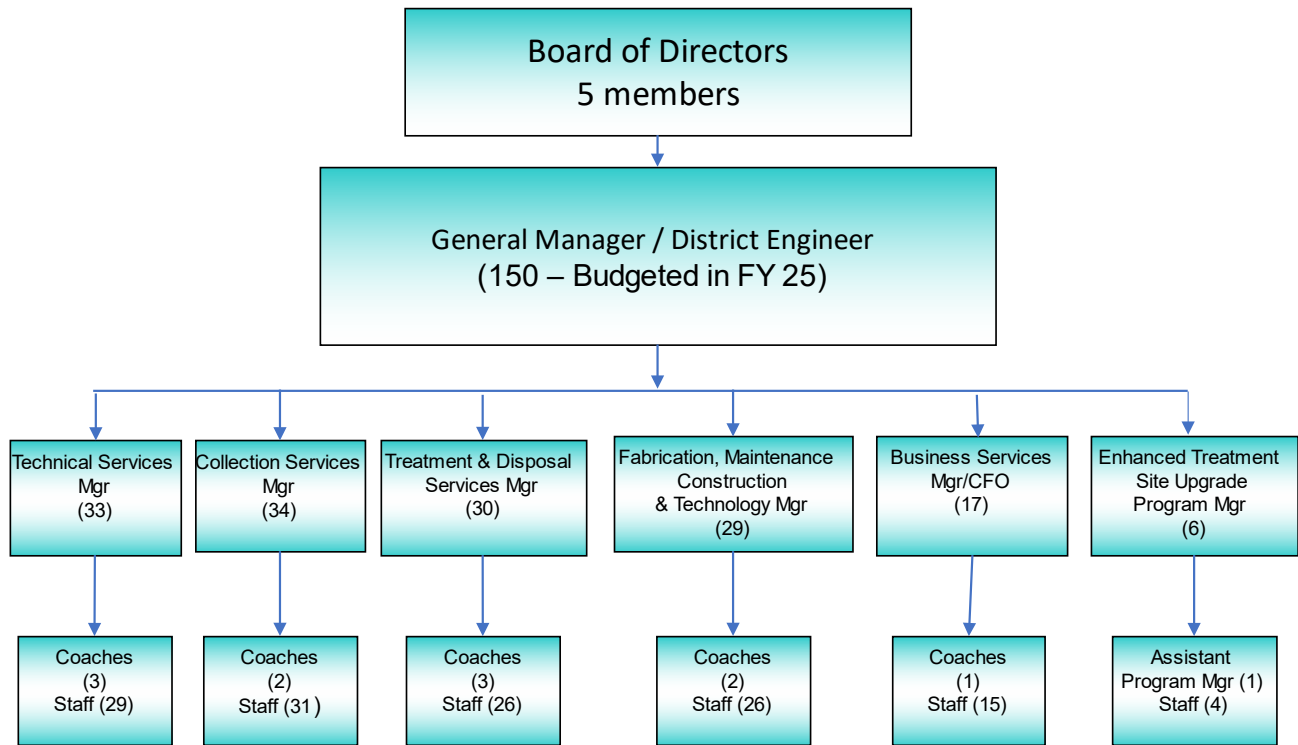
Staff

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

Karen W. Murphy - General Counsel



USD TREAT
PROTECT
PRESERVE
est.1918
TRI-CITY WASTEWATER





VISION/MISSION STATEMENT

April 10, 2017

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

How we continue to accomplish our Vision:

Commitment to safety:

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

Responsibility:

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

Collect, treat, and recover/reuse wastewater:

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

Human health and environmental stewardship

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



VISION/MISSION STATEMENT April 10, 2017

We benefit our stakeholders by:

Community

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

Customer

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

Employees

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

**Union Sanitary District
Draft FY 2025 - FY 2044 CIP Budget
(All Figures x \$1,000)**

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	10-Year Total	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	20-Year Total	
ADMINISTRATIVE FACILITIES																													
80		2	Planning	Battery Storage at Alvarado (ER)	8,313	0	192	767	3,677	3,677							8,313											8,313	
80		2		Cathodic Protection Improvements						320		342		365		389	1,416		415		443		473		504		538	3,789	
80		1	Design	Collection Services Bldg. Improvements	6,658	216	505	3,813	2,340								6,658											6,658	
80		1	Constr	ETSU - 1A - Campus Building	90,526	63,561	26,965										26,965											26,965	
80		1	Design	ETSU - 1A - Campus Solar Project (CS)	5,000	0	500	1,700	2,800								5,000											5,000	
80		2	Design	FY 24 Cathodic Protection System Improvements	517	30	125	362									487											487	
80		3		Plant Paving							775		207		207		1,189	207		207		207		207		207		2,224	
80		2		Radio Repeater Antenna Replacement (Mount Allison)							150						150											150	
80		3		Sea-Level Rise at Alvarado													0	1,814	6,953	6,953								15,719	
80		3		Sea-Level Rise at Force Mains													0	2,095	8,029	8,029								18,152	
80		3		Sea-Level Rise at Lift Stations													0	426	1,634	1,634								3,694	
80		3		Sea-Level Rise at Pump Stations													0	850	3,257	3,257								7,363	
80		2	Design	Solar and Batteries at Irvington PS (ER)	3,638	21	325	1,609	1,683								3,617											3,617	
80		2		Solar and Batteries at Lift Stations (ER)				19	72	72							163											163	
80		2		Solar and Batteries at Newark PS (ER)				355	1,360	1,360							3,075											3,075	
80		2		Solar at Primary Clarifiers (ER)											214	822	1,036	822										1,858	
80	50	2		Solar/Batteries/Inverters Replacement at Plant				53					408				461		197		473	4,069			135		5,335		
90	50	2		Solar/Batteries/Inverters Replacement at Plant				53					408				461		197		473	4,069			135		5,335		
80	50	2		Solar/Batteries/Inverters Replacement at Lift Stations													0					98					98		
90	50	2		Solar/Batteries/Inverters Replacement at Lift Stations													0					98					98		
80	50	2		Solar/Batteries/Inverters Replacement at Pump Stations													0			949		814					1,763		
90	50	2		Solar/Batteries/Inverters Replacement at Pump Stations													0			949		814					1,763		
Total for ADMINISTRATIVE FACILITIES					114,652	63,828	28,612	8,731	11,932	5,429	925	342	1,023	365	421	1,211	58,991	6,213	20,681	21,977	1,389	10,169	473	207	774	207	538	121,619	
Total Priority 1 Administrative Facilities					102,184	63,777	27,970	5,513	5,140	0	0	0	0	0	0	0	38,623	0	0	0	0	0	0	0	0	0	0	38,623	
Total Priority 2 Administrative Facilities					12,468	51	642	3,218	6,792	5,429	150	342	816	365	214	1,211	19,179	822	809	1,898	1,389	9,962	473	0	774	0	538	35,844	
Total Priority 3 Administrative Facilities					0	0	0	0	0	0	775	0	207	0	207	0	1,189	5,391	19,872	20,079	0	207	0	207	0	207	0	47,152	
Total Fund 80 - Administrative Facilities					114,652	63,828	28,612	8,678	11,932	5,429	925	342	615	365	421	1,211	58,530	6,213	20,484	21,028	916	5,188	473	207	639	207	538	114,423	
Total Fund 90 - Administrative Facilities					0	0	0	53	0	0	0	0	408	0	0	0	0	461	0	197	949	473	4,981	0	0	135	0	0	7,196

**Union Sanitary District
Draft FY 2025 - FY 2044 CIP Budget
(All Figures x \$1,000)**

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	10-Year Total	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	20-Year Total	
COLLECTION SYSTEM																													
80		2		Cast Iron/Pipe Lining				640		683		729		778		2,830	830		886		945		1,009		1,076		7,576		
80		1	Design	Central Avenue Sewer Relocation (Newark Overpass)	2,583	0	155	2,428								2,583												2,583	
80		2	Constr	FY 23 Cast Iron/Piping Lining	600	8	592									592												592	
80		2	Design	FY 24 Gravity Sewer Rehab/Replacement	2,230	105	210	2,020								2,230												2,230	
80		2		Gravity Sewer Rehab/Replacement				194	1,750	208		1,868	221	1,993	236	2,127	8,597	252	2,270	269	2,422	287	2,584	306	2,758	327	2,943	23,015	
80		1		RCP Sewer Rehab (Alvarado Basin)			200	2,200	2,500							4,900												4,900	
80		1		RCP Sewer Rehab (Irvington Basin)			100	800	900	250		2,200	2,550			6,800												6,800	
80		1		RCP Sewer Rehab (Newark Basin)				250	2,200	2,550						5,000												5,000	
Total for COLLECTION SYSTEM					5,413	113	1,257	7,448	4,484	3,950	3,691	4,068	3,500	1,993	1,014	2,127	33,532	1,082	2,270	1,155	2,422	1,232	2,584	1,315	2,758	1,403	2,943	52,696	
Total Priority 1 Collection System					2,583	0	455	5,428	3,650	2,200	2,800	2,200	2,550	0	0	0	19,283	0	0	0	0	0	0	0	0	0	0	0	19,283
Total Priority 2 Collection System					2,830	113	802	2,020	834	1,750	891	1,868	950	1,993	1,014	2,127	14,249	1,082	2,270	1,155	2,422	1,232	2,584	1,315	2,758	1,403	2,943	33,413	
Total Priority 3 Collection System					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Fund 80 - Collection System					5,413	113	1,257	7,448	4,484	3,950	3,691	4,068	3,500	1,993	1,014	2,127	33,532	1,082	2,270	1,155	2,422	1,232	2,584	1,315	2,758	1,403	2,943	52,696	
Total Fund 90 - Collection System					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TRANSPORT SYSTEM																													
80	50	2		Alameda Creek Crossing Lift Station												0					768		4,574	5,591			10,933		
90	50	2		Alameda Creek Crossing Lift Station												0					768		4,574	5,591			10,933		
90		2		Equalization Storage @ Newark												0		3,066	9,407	21,951							34,424		
80		1	Constr	Forcemain Corrosion Repairs - Phase 4	2,447	627	1,820									1,820												1,820	
80		2	Design	Forcemain Stabilization at Alameda Creek	1,800	45	130	670	1,000							1,800												1,800	
80		3		Forcemain Rehabilitation												0				900	12,275	12,275	12,275	12,275			50,000		
80	50	1	Design	Irvington PS Pumps and VFDs	11,472	0	1,059	2,802	5,074	2,537						11,472												11,472	
90	50	1	Design	Irvington PS Pumps and VFDs	11,472	0	1,059	2,802	5,074	2,537						11,472												11,472	
80	50	3		Irvington PS Rehabilitation											590	590	2,653	2,653									5,896		
90	50	3		Irvington PS Rehabilitation											590	590	2,653	2,653									5,896		
80	50	3		Lift Station Rehabilitation									50	445		495						743	3,342	3,342			7,922		
90	50	3		Lift Station Rehabilitation									50	445		495						743	3,342	3,342			7,922		
80	50	2	Constr	Newark PS/Irvington PS Portable VFD	124	101	23									23												23	
90	50	2	Constr	Newark PS/Irvington PS Portable VFD	124	101	23									23												23	

**Union Sanitary District
Draft FY 2025 - FY 2044 CIP Budget
(All Figures x \$1,000)**

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	10-Year Total	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	20-Year Total	
80	50	2		Newark PS Pumps and VFDs						1,114	5,014	5,014					11,142											11,142	
90	50	2		Newark PS Pumps and VFDs						1,114	5,014	5,014					11,142											11,142	
80	50	3		Newark PS Rehabilitation													0			501	2,254	2,254						5,009	
90	50	3		Newark PS Rehabilitation													0			501	2,254	2,254						5,009	
80	45	2	Constr	PS Odor Control Improvements	4,307	476	1,370	2,461									3,831											3,831	
90	55	2	Constr	PS Odor Control Improvements	5,263	581	1,674	3,008									4,682											4,682	
90		2		Stevenson Blvd. Lift Station	3,100	0	100	200	1,350	1,450							3,100											3,100	
80		3		Transport System Misc. Projects				250	250	250	250	250	250	250	250	250	2,250	250	250	250	250	250	250	250	250	250	250	250	4,750
Total for TRANSPORT SYSTEM					40,109	1,931	7,258	12,193	12,748	9,002	10,278	10,278	250	350	1,140	1,430	64,927	5,556	8,622	10,659	27,609	18,569	14,011	28,357	30,391	250	250	209,201	
Total Priority 1 Transport System					25,391	627	3,938	5,604	10,148	5,074	0	0	0	0	0	0	0	24,764	0	0	0	0	0	0	0	0	0	0	24,764
Total Priority 2 Transport System					14,718	1,304	3,320	6,339	2,350	3,678	10,028	10,028	0	0	0	0	0	35,743	0	3,066	9,407	21,951	1,536	0	9,148	11,182	0	0	92,033
Total Priority 3 Transport System					0	0	0	250	250	250	250	250	250	350	1,140	1,430	4,420	5,556	5,556	1,252	5,658	17,033	14,011	19,209	19,209	250	250	92,404	
Total Fund 80 - Transport System					20,150	1,249	4,402	6,183	6,324	3,901	5,264	5,264	250	300	695	840	33,423	2,903	2,903	751	3,404	15,547	13,268	20,441	21,458	250	250	114,598	
Total Fund 90 - Transport System					19,959	682	2,856	6,010	6,424	5,101	5,014	5,014	0	50	445	590	31,504	2,653	5,719	9,908	24,205	3,022	743	7,916	8,933	0	0	94,603	

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	10-Year Total	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	20-Year Total	
TREATMENT PLANT																													
80		2	Constr	Alvarado Influent Valve Box Gate Valves 1-2	1,400	300	1,100										1,100												1,100
80		2		Centrifuge Rebuild and VFD Replacement					1,500	1,500							3,000											3,000	
80	50	2		Centrifuge Replacement													0			1,499	3,407	13,293	6,647					24,846	
90	50	2		Centrifuge Replacement													0			1,499	3,407	13,293	6,647					24,846	
80	50	1		Cogen Engine No. 1 60K Block Replacement			400								525		925							675				1,600	
90	50	1		Cogen Engine No. 1 60K Block Replacement			400								525		925							675				1,600	
80	50	1		Cogen Engine No. 2 60K Block Replacement								475					475				625							1,100	
90	50	1		Cogen Engine No. 2 60K Block Replacement								475					475				625							1,100	
80	50	2	Planning	Cogen Engine No. 3 (ER)			178	715	3,425	3,425							7,743											7,743	
90	50	2	Planning	Cogen Engine No. 3 (ER)			178	715	3,425	3,425							7,743											7,743	
80	50	2		Cogen Ventilation System Improvements				35	179	179							393											393	
90	50	2		Cogen Ventilation System Improvements				35	179	179							393											393	
80	50	2		Cogen Retrofit									271	1,230			1,501											1,501	
90	50	2		Cogen Retrofit									271	1,230			1,501											1,501	
80		2		Control Box No. 1 Improvements						766	5,630	2,413					8,809											8,809	
80		2		Degritter Building Roof (Seismic) Replacement													0					817	4,531	1,942				7,290	
80	50	2		Degritting at Headworks and Improvements													0	550	1,516	5,409	9,302	9,302					26,078		
90	50	2		Degritting at Headworks and Improvements													0	550	1,516	5,409	9,302	9,302					26,078		

**Union Sanitary District
Draft FY 2025 - FY 2044 CIP Budget
(All Figures x \$1,000)**

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	10-Year Total	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	20-Year Total
80		3		Diffuser Replacement												504	504	781	807									2,092
80		2		Digester No. 1 Insp & Rehab					459	1,453	2,180						4,092				757	3,095	3,095					11,039
80		2		Digester No. 2 Insp & Rehab												686	686	3,370	2,247									6,303
80		2		Digester No. 3 Insp & Rehab										623	3,056	2,037	5,716											5,716
80		2		Digester No. 4 Insp & Rehab					547	1,790	2,685						5,022				883	4,332	2,888					13,125
80		2		Digester No. 5 Insp & Rehab							678	3,221	2,147				6,046						973	4,776	3,184			14,979
80		1	Design	Digester No. 6 Insp & Rehab	9,270	378	504	5,592	2,796								8,892		1,182	4,833	4,833							19,740
80		3		Digester No. 7 Insp & Rehab												1,550	1,550	6,341	6,341									14,232
80	60	1	Constr	ETSU - 1A - Aeration Basin Modifications	64,683	27,072	16,271	12,671	8,669								37,611											37,611
90	40	1	Constr	ETSU - 1A - Aeration Basin Modifications	43,123	18,048	10,847	8,447	5,781								25,075											25,075
80	40	1	Constr	ETSU - 1A - Aeration Basin No. 8	7,489	5,318	2,171										2,171											2,171
90	60	1	Constr	ETSU - 1A - Aeration Basin No. 8	11,233	7,976	3,257										3,257											3,257
80	60	1	Constr	ETSU - 1A - Aeration Internal Lift Pumps	2,430	684	1,746										1,746											1,746
90	40	1	Constr	ETSU - 1A - Aeration Internal Lift Pumps	1,620	456	1,164										1,164											1,164
80	60	1	Constr	ETSU - 1A - Blower 7-10 Replacement	2,748	1,888	860										860											860
90	40	1	Constr	ETSU - 1A - Blower 7-10 Replacement	1,832	1,258	574										574											574
80		1	Constr	ETSU - 1A - Plant 12kV Switchgear (SWGR-SE)	9,329	2,488	2,850	3,991									6,841											6,841
80	50	1	Constr	ETSU - 1A - Site Drainage Improvements	3,307	1,876	1,431										1,431											1,431
90	50	1	Constr	ETSU - 1A - Site Drainage Improvements	3,307	1,876	1,431										1,431											1,431
80	60	1	Design	ETSU - 1B - Secondary Clarifiers	108,310	4,382	2,580	29,400	34,246	25,702	12,000						103,928											103,928
90	40	1	Design	ETSU - 1B - Secondary Clarifiers	72,207	2,921	1,720	19,600	22,831	17,135	8,000						69,286											69,286
80	60	1	Design	ETSU - 1B - Switchboard 4 Replacement	1,194	0	270	924									1,194											1,194
90	40	1	Design	ETSU - 1B - Switchboard 4 Replacement	796	0	180	616									796											796
80	60	1	Design	ETSU - 1B - Effluent Facilities	34,943	0	840	7,260	13,338	9,905	3,600						34,943											34,943
90	40	1	Design	ETSU - 1B - Effluent Facilities	23,295	0	560	4,840	8,892	6,603	2,400						23,295											23,295
80	25	1	Design	ETSU - 1C - Plant Equalization Storage	9,904	0			300	450	2,289	5,950	915				9,904											9,904
90	75	1	Design	ETSU - 1C - Plant Equalization Storage	29,714	0			900	1,350	6,866	17,852	2,746				29,714											29,714
80	50	3		ETSU - Phase 2												0						3,058	12,636	40,046	53,394	40,046	149,180	
90	50	3		ETSU - Phase 2												0						3,058	12,636	40,046	53,394	40,046	149,180	
80		2		Flares Replacement										945	5,469	2,344	8,758											8,758
80		2		MCC Replacement						66	524						590											590
80		2	Constr	Miscellaneous Improvements	7,089	4,062	3,027										3,027											3,027

**Union Sanitary District
Draft FY 2025 - FY 2044 CIP Budget
(All Figures x \$1,000)**

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	10-Year Total	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	20-Year Total
80		2		Odor Scrubber Replacements (HW & West PCs)								520	2,147	9,147	12,806	24,620												24,620
80		2		Odor Scrubber Replacements (East PCs)	13,187	0	100	300		255	701	2,264	3,827	3,827	1,913		13,187											13,187
80		2		Odor Scrubber System Improvements								394	3,124		1,366	4,884	7,572	3,694	3,557	1,607	9,201	3,943	910	7,203			42,571	
80		2		Plant 1 and 2 Water System Improvements						115	1,141						1,256										1,256	
80		2	Planning	Plant 5kV Switchgear	4,790	0	101	418	2,990	1,281							4,790											4,790
80		2	Planning	Plant 12kV Switchgear	11,573	0	244	1,009	7,224	3,096							11,573											11,573
80	50	3		Plant Additional Power Source													0				258	2,066	2,841				5,165	
90	50	3		Plant Additional Power Source													0				258	2,066	2,841				5,165	
80		2		Plant Asset Condition Assessment R&R						979	827	3,562	3,648	7,877	1,132	2,646	20,671	406	247		398		1,062	4,403	24,516	24,516	15,649	91,868
80		2		Plant Mechanical and Electrical Projects					500	500	500	500	500	500	500	500	4,000	500	500	500	500	500	500	500	500	500	500	9,000
80		2		PLC Replacement										350			350		400			450					1,200	
80		2		Primary Clarifier (1 - 4) Seismic Upgrade									163	675	2,876	4,027	7,741										7,741	
80	75	2		Primary Clarifier Rehab (5-6)					514	2,121	2,105	8,418	8,418	4,209			25,785										25,785	
90	25	2		Primary Clarifier Rehab (5-6)					172	707	701	2,806	2,806	1,403			8,595										8,595	
80		3		Secondary Digester No. 1 Insp & Rehab													0		525	4,878							5,403	
80		3		Secondary Digester No. 2 Insp & Rehab				134	1,245								1,379				560	5,206					7,145	
80		2		Seismic Retrofit of Conc. Structures				300	300		300		300		300		1,500		300		300		300		300		300	3,000
80		1	Constr	Standby Power Generation System Upgrade	27,754	23,172	1,444	3,138									4,582											4,582
90		3		Standby Power Generator No. 4													0							2,757	18,160	9,080	29,997	
80		2	Constr	Switchboard 3 and MCC 25 Replacement	2,690	267	1,253	1,170									2,423											2,423
80	60	2		Thermal Dryer								977	1,132	7,178	7,178	16,466	3,589										20,055	
90	40	2		Thermal Dryer								652	755	4,785	4,785	10,977	2,393										13,370	
80		2	Design	Thickeners 1 and 2 Rehabilitation	3,432	0	275	2,210	947								3,432											3,432
80		3		Thickeners 3 and 4 Rehabilitation											638		638	3,070									3,708	
80		1	Design	WAS Thickeners	27,744	1,335	50	1,305	7,516	10,022	7,516						26,409										26,409	
Total for TREATMENT PLANT					540,393	105,757	58,006	104,691	126,778	92,341	59,907	40,342	28,255	35,939	42,718	41,367	630,345	29,122	19,275	27,584	36,505	68,856	40,311	41,032	120,144	153,148	105,621	1,271,944
Total Priority 1 Treatment Plant					496,232	101,128	51,550	97,784	105,269	71,167	42,671	24,752	3,661	0	1,050	0	397,904	0	1,182	4,833	6,083	0	0	1,350	0	0	0	411,352
Total Priority 2 Treatment Plant					44,161	4,629	6,456	6,907	21,375	19,929	17,236	15,590	24,594	35,939	41,668	38,675	228,370	18,930	10,420	17,873	29,862	63,134	30,063	8,728	37,295	28,200	16,449	489,325
Total Priority 3 Treatment Plant					0	0	0	0	134	1,245	0	0	0	0	0	2,692	4,071	10,192	7,673	4,878	560	5,722	10,248	30,954	82,849	124,948	89,172	371,267
Total Fund 80 - Treatment Plant					353,266	73,222	37,695	70,438	84,770	63,477	41,934	21,314	21,780	31,148	36,005	36,582	445,144	26,179	17,759	20,676	23,172	46,004	28,540	24,880	77,341	81,594	56,495	847,783
Total Fund 90 - Treatment Plant					187,127	32,535	20,311	34,253	42,008	28,864	17,973	19,028	6,475	4,791	6,713	4,785	185,201	2,943	1,516	6,908	13,334	22,853	11,771	16,152	42,803	71,554	49,126	424,160

**Union Sanitary District
Draft FY 2025 - FY 2044 CIP Budget
(All Figures x \$1,000)**

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	FY 34	10-Year Total	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	FY 44	20-Year Total	
				Administrative Facilities	114,652	63,828	28,612	8,731	11,932	5,429	925	342	1,023	365	421	1,211	58,991	6,213	20,681	21,977	1,389	10,169	473	207	774	207	538	121,619	
				Collection System	5,413	113	1,257	7,448	4,484	3,950	3,691	4,068	3,500	1,993	1,014	2,127	33,532	1,082	2,270	1,155	2,422	1,232	2,584	1,315	2,758	1,403	2,943	52,696	
				Transport System	40,109	1,931	7,258	12,193	12,748	9,002	10,278	10,278	250	350	1,140	1,430	64,927	5,556	8,622	10,659	27,609	18,569	14,011	28,357	30,391	250	250	209,201	
				Treatment Plant	540,393	105,757	58,006	104,691	126,778	92,341	59,907	40,342	28,255	35,939	42,718	41,367	630,345	29,122	19,275	27,584	36,505	68,856	40,311	41,032	120,144	153,148	105,621	1,271,944	
				GRAND TOTAL	700,567	171,629	95,133	133,063	155,942	110,722	74,801	55,030	33,028	38,647	45,293	46,135	787,795	41,973	50,848	61,375	67,925	98,826	57,379	70,911	154,067	155,008	109,352	1,655,460	
				R&R (Fund 80) Total	493,481	138,412	71,966	92,747	107,510	76,757	51,814	30,988	26,145	33,806	38,135	40,760	570,629	36,377	43,416	43,610	29,914	67,971	44,865	46,843	102,196	83,454	60,226	1,129,500	
				Capacity (Fund 90) Total	207,086	33,217	23,167	40,316	48,432	33,965	22,987	24,042	6,883	4,841	7,158	5,375	217,166	5,596	7,432	17,765	38,012	30,856	12,514	24,068	51,871	71,554	49,126	525,959	
				Priority 1																									
				Administrative Facilities	102,184	63,777	27,970	5,513	5,140	0	0	0	0	0	0	0	38,623	0	0	0	0	0	0	0	0	0	0	38,623	
				Collection System	2,583	0	455	5,428	3,650	2,200	2,800	2,200	2,550	0	0	0	19,283	0	0	0	0	0	0	0	0	0	0	19,283	
				Transport System	25,391	627	3,938	5,604	10,148	5,074	0	0	0	0	0	0	24,764	0	0	0	0	0	0	0	0	0	0	0	24,764
				Treatment Plant	496,232	101,128	51,550	97,784	105,269	71,167	42,671	24,752	3,661	0	1,050	0	397,904	0	1,182	4,833	6,083	0	0	1,350	0	0	0	411,352	
				Total Priority 1 Projects	626,390	165,532	83,913	114,329	124,207	78,441	45,471	26,952	6,211	0	1,050	0	480,574	0	1,182	4,833	6,083	0	0	1,350	0	0	0	494,022	
				Priority 2																									
				Administrative Facilities	12,468	51	642	3,218	6,792	5,429	150	342	816	365	214	1,211	19,179	822	809	1,898	1,389	9,962	473	0	774	0	538	35,844	
				Collection System	2,830	113	802	2,020	834	1,750	891	1,868	950	1,993	1,014	2,127	14,249	1,082	2,270	1,155	2,422	1,232	2,584	1,315	2,758	1,403	2,943	33,413	
				Transport System	14,718	1,304	3,320	6,339	2,350	3,678	10,028	10,028	0	0	0	0	35,743	0	3,066	9,407	21,951	1,536	0	9,148	11,182	0	0	92,033	
				Treatment Plant	44,161	4,629	6,456	6,907	21,375	19,929	17,236	15,590	24,594	35,939	41,668	38,675	228,370	18,930	10,420	17,873	29,862	63,134	30,063	8,728	37,295	28,200	16,449	489,325	
				Total Priority 2 Projects	74,177	6,097	11,220	18,484	31,351	30,786	28,305	27,828	26,360	38,297	42,896	42,013	297,541	20,834	16,565	30,333	55,624	75,864	33,120	19,191	52,009	29,603	19,930	650,614	
				Priority 3																									
				Administrative Facilities	0	0	0	0	0	0	775	0	207	0	207	0	1,189	5,391	19,872	20,079	0	207	0	207	0	207	0	47,152	
				Collection System	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				Transport System	0	0	0	250	250	250	250	250	250	350	1,140	1,430	4,420	5,556	5,556	1,252	5,658	17,033	14,011	19,209	19,209	250	250	92,404	
				Treatment Plant	0	0	0	0	134	1,245	0	0	0	0	0	2,692	4,071	10,192	7,673	4,878	560	5,722	10,248	30,954	82,849	124,948	89,172	371,267	
				Total Priority 3 Projects	0	0	0	250	384	1,495	1,025	250	457	350	1,347	4,122	9,680	21,139	33,101	26,209	6,218	22,962	24,259	50,370	102,058	125,405	89,422	510,823	



**Summary of the EBDA Commission Meeting
Thursday, April 18, 2024, at 4:00 p.m.**

- Commissioners Andrews, Azevedo, Johnson, Lathi, and Simon, were present. This meeting was conducted at the Oro Loma Sanitary District, 2655 Grant Avenue, San Lorenzo, CA 94580.
- **Motion to allow a member of the Commission to participate remotely pursuant to AB 2449**
Commissioner Azevedo requested to participate in the meeting remotely pursuant to AB 2449 on the basis of “emergency circumstances” as pursuant to Government Code section 54954.2 (b)(4), which allows the Commission to consider a request for remote appearance at the start of the meeting for an emergency circumstance if the request does not allow sufficient time to place the proposed action on the posted agenda. The request for remote appearance, and subsequent vote, was consistent with government code and EBDA’s Rules of the Commission. Commissioner Azevedo disclosed that no individuals over the age of 18 were present at the remote location.

Commissioner Simon moved to approve the request. The item was seconded by Commissioner Johnson and carried with the following roll call vote:

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

- Commissioner Andrews moved to approve the Commission Meeting Minutes of March 21, 2024, the List of Disbursements for March 2024, and the Treasurer’s Report for March 2024. The motion was seconded by Commissioner Simon and carried 5-0, by roll call vote.

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

- The Commission unanimously approved the reports from the Financial Management, Operations & Maintenance, and Personnel Committees. The following items were discussed:

- **General Managers Report**

The General Manager (GM) provided an update on the Nutrient Watershed Permit negotiations. The Water Board released a tentative order for public comment, with adoption of the permit scheduled for June 12.

- **Managers Advisory Committee**

The GM reported on the April 17, 2024, meeting of the Financial Management Committee. The GM reviewed the status of the Authority's pension plan and other post-employment benefits (OPEB) trust. Lastly, the GM presented the FY 2024/2025 draft budget.

- **Financial Management Committee**

The GM reported on the April 17, 2024, meeting of the Financial Management Committee. The GM reviewed the status of the Authority's pension plan and other post-employment benefits (OPEB) trust. Lastly, the GM presented the FY 2024/2025 draft budget.

- **Operations and Maintenance Committee**

The Operations and Maintenance (O&M) Manager reported on the April 16, 2024, meeting. The O&M Manager provided project updates on the Hayward Effluent Pump Station (HEPS) Pump Replacement Project and the Pond 3 Valve Actuator Replacement. The GM discussed the Cargill project and an upcoming site visit to one of the AQPI project radar locations. Lastly, the GM discussed the Water Board's inspection of the Marina Dechlorination Facility and a recently completed solar study.

- **Personnel Committee**

The GM reported on the April 16, 2024, meeting. The GM presented the 2024/2025 draft compensation plan. The GM advised that the Committee is considering retiree medical benefit options. The GM asked Commissioners to complete the Committee Preference form.

- **Items from Commission and Staff**

Commissioner Azevedo announced his appointment to the BCDC Bay Adapt Local Electeds Regional Task Force.

- **Adjournment**

Chair Lathi adjourned the meeting at 4:51 p.m.

**UNION SANITARY DISTRICT
CHECK REGISTER
04/26/2024-05/17/2024**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
187472	5/16/2024	114	800532.23	W.M. LYLES CO	MP - AERATION BASIN MODIFICATIONS	\$1,487,680.79	\$1,912,000.29
	5/16/2024	143	800558.7		PLANT MISCELLANEOUS IMPROVEMENTS	\$424,319.50	
187296	5/2/2024	143	800452.23	CLARK CONSTRUCTION GROUP CA LP	STANDBY POWER SYSTEM UPGRADE	\$518,175.13	\$518,175.13
187394	5/9/2024	143	206185	PSOMAS CORP	STANDBY POWER SYSTEM UPGRADE	\$75,647.00	\$400,323.45
	5/9/2024	143	206964		STANDBY POWER SYSTEM UPGRADE	\$69,332.28	
	5/9/2024	114	207511		AERATION BASIN MODIFICATIONS (0532) & CAMPUS BUILDING (0545)	\$255,344.17	
187366	5/9/2024	114	2011800438	HAZEN AND SAWYER	ETSU PHASE 1B PROJECT	\$141,866.73	\$296,987.98
	5/9/2024	114	2011801025		MP - AERATION BASIN MODIFICATIONS	\$71,723.05	
	5/9/2024	114	2011801120		CAMPUS BUILDINGS (ADMIN, FMC, OPS)	\$83,398.20	
187308	5/2/2024	143	800551.6	INSITUFORM TECHNOLOGIES, LLC	IRVINGTON BASIN RCP REHABILITATION	\$266,249.47	\$266,249.47
187467	5/16/2024	110	46871	SYNAGRO WEST LLC	MAR 2024 BIOSOLIDS DISPOSAL	\$121,174.52	\$121,174.52
187389	5/9/2024	170	140120240411	PACIFIC GAS AND ELECTRIC	SERV TO 04/03/24 IRVINGTON PS	\$119,347.18	\$119,347.18
187364	5/9/2024	110	950603	HASA INC	4778 GALS SODIUM HYPOCHLORITE	\$15,367.12	\$90,137.27
	5/9/2024	110	951908		4767 GALS SODIUM HYPOCHLORITE	\$15,331.74	
	5/9/2024	110	951909		4786 GALS SODIUM HYPOCHLORITE	\$15,392.85	
	5/9/2024	110	953171		4637.5 GALS SODIUM HYPOCHLORITE	\$14,637.69	
	5/9/2024	110	953696		4501 GALS SODIUM HYPOCHLORITE	\$14,206.84	
	5/9/2024	110	954091		4828 GALS SODIUM HYPOCHLORITE	\$15,201.03	

**UNION SANITARY DISTRICT
CHECK REGISTER
04/26/2024-05/17/2024**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
187473	5/16/2024	114	800532.23E	W.M. LYLES CO	MP - AERATION BASIN MODIFICATIONS - ESCROW	\$78,298.99	\$78,298.99
187387	5/9/2024		2024400089	NORTHEAST-WESTERN ENERGY SYS	USD E2 LONG BLOCK (COGEN 2)	\$75,497.46	\$75,497.46
187453	5/16/2024	123	202400000001	CITY OF NEWARK	CITY OF NEWARK OVERLAY - PROJECT 1300	\$62,315.00	\$62,315.00
187403	5/9/2024	143	2403015	SIEGEL & STRAIN ARCHITECTS	FIELD OPERATIONS BUILDING IMPROVEMENTS	\$52,205.93	\$52,205.93
187440	5/16/2024	110	954692	HASA INC	4932.7 GALS SODIUM HYPOCHLORITE	\$15,569.46	\$45,788.92
	5/16/2024	110	955295		4791.7 GALS SODIUM HYPOCHLORITE	\$15,124.41	
	5/16/2024	110	956377		4782.4 GALS SODIUM HYPOCHLORITE	\$15,095.05	
187410	5/9/2024	110	470018129	USP TECHNOLOGIES	4084 GALS HYDROGEN PEROXIDE	\$19,276.48	\$38,817.28
	5/9/2024	110	470018178		4140 GALS HYDROGEN PEROXIDE	\$19,540.80	
187324	5/2/2024	143	206966	PSOMAS CORP	PLANT MISCELLANEOUS IMPROVEMENTS	\$38,660.06	\$38,660.06
187456	5/16/2024	170	761520240502	PACIFIC GAS AND ELECTRIC	SERV TO 04/24/24 NEWARK PS	\$31,416.52	\$31,416.52
187441	5/16/2024	143	2011801210	HAZEN AND SAWYER	PRIMARY DIGESTER NO. 6 REHABILITATION	\$22,575.41	\$30,755.41
	5/16/2024	150	201180137		CO-DIGESTION FEASIBILITY STUDY MAR 24	\$8,180.00	
187426	5/16/2024	170	58834	CARBON ACTIVATED CORPORATION	GAS SKID MEDIA EXCHANGE	\$28,982.00	\$28,982.00
187474	5/16/2024	123	53521	WECO INDUSTRIES LLC	240 GAL SANAFOAM VAPOROOTER	\$25,635.66	\$25,635.66
187373	5/9/2024	170	412394	KLEEN BLAST ABRASIVES	1 BLAST CABINET	\$24,921.71	\$24,921.71
187470	5/16/2024		533620240422	US BANK CORP PAYMENT SYSTEM	MONTHLY CAL-CARD REPORT - APR 2024	\$23,038.56	\$23,038.56
187420	5/16/2024		B0DF2G	BENEFIT COORDINATORS CORP	DELTA DENTAL AND VSP STMT - MAY 2024	\$3,804.35	\$22,465.43
	5/16/2024		B0DFHD		DELTA DENTAL CLAIMS - APR 2024	\$18,661.08	

**UNION SANITARY DISTRICT
CHECK REGISTER
04/26/2024-05/17/2024**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
187395	5/9/2024	170	50513C	R & S ERECTION OF S ALAMEDA	SERVICE: BLDG. 66 GEARHEAD DOOR OPERATOR	\$3,845.66	\$21,006.59
	5/9/2024	170	50520C		SERVICE: BLDG. 66 DOOR REPLACEMENT / REPAIR	\$17,160.93	
187372	5/9/2024	110	9017832596	KEMIRA WATER SOLUTIONS INC	45,900 LBS FERROUS CHLORIDE	\$9,890.32	\$20,305.66
	5/9/2024	110	9017833001		48,780 LBS FERROUS CHLORIDE	\$10,415.34	
187340	5/9/2024	170	9149043877	AIRGAS NCN	18 CHARGERS FOR GAS TECHS	\$1,734.84	\$19,959.45
	5/9/2024	170	9149087101		INDUSTRIAL SCIENTIFIC GAS DETECTORS	\$18,224.61	
187423	5/16/2024	143	11518390	BROWN & CALDWELL CONSULTANTS	STANDBY POWER SYSTEM UPGRADE	\$15,998.73	\$17,754.88
	5/16/2024	143	11518396		STANDBY POWER SYSTEM UPGRADE	\$1,756.15	
187304	5/2/2024	173	24HN10019	HALCYON NETWORKS	FULL-TIME DESKTOP SUPPORT IT SERVICES	\$16,500.00	\$16,500.00
187322	5/2/2024	110	1823489	POLYDYNE INC	43,120 LBS CLARIFLOC WE-539	\$11,938.85	\$11,938.85
187309	5/2/2024	110	9017831693	KEMIRA WATER SOLUTIONS INC	47,880 LBS FERROUS CHLORIDE	\$11,578.90	\$11,578.90
187377	5/9/2024		37432220240501	LINCOLN NATIONAL LIFE INS COMP	LIFE & DISABILITY INSURANCE - MAY 2024	\$9,458.41	\$9,458.41
187416	5/16/2024	143	5307338	ALL INDUSTRIAL ELECTRIC SUPPLY	MCC BREAKER FOR EAST BLOWER RM SUPPLY FANS	\$5,055.44	\$8,907.56
	5/16/2024	170	5307446		CHERRY LIFT STATION PUMP STARTERS	\$2,841.85	
	5/16/2024	170	5307447		ASTD PARTS & MATERIALS	\$1,010.27	
187368	5/9/2024	122	240477	INDUSTRIAL SHELVING SYSTEMS	2 CABINETS	\$8,344.64	\$8,344.64
187298	5/2/2024	170	253426	FRANK A OLSEN COMPANY	2 THICKENER SCUM PIT 6 INCH PLUG VALVES	\$8,010.97	\$8,010.97
187419	5/16/2024	173	2758420	BAKER TILLY US, LLP	IT ORGANIZATIONAL ASSESSMENT 2023	\$7,700.00	\$7,700.00

**UNION SANITARY DISTRICT
CHECK REGISTER
04/26/2024-05/17/2024**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
187297	5/2/2024	110	20240888	COMPACTOR MANAGEMENT COMPANY	HAULING AND DISPOSAL OF SEWER DEBRIS	\$7,313.20	\$7,663.20
	5/2/2024	170	20240925		HEADWORKS RAG COMPACTOR MAINTENANCE	\$350.00	
187435	5/16/2024		54380784	DXP ENTERPRISES INC	MILTON ROY PARTS	\$6,822.43	\$6,822.43
187414	5/16/2024	170	4017274120240506	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 05/02/24 - FREMONT	\$6,166.40	\$6,691.54
	5/16/2024	170	4017275220240506		SERV TO: 05/03/24 - FREMONT BLVD	\$440.65	
	5/16/2024	170	4017420220240506		SERV TO: 05/03/24 - FREMONT BLVD	\$84.49	
187361	5/9/2024	170	123254	ENVIRONMENTAL LOGISTICS INC	HAZARDOUS WASTE DISPOSAL	\$6,651.00	\$6,651.00
187391	5/9/2024		29615679	PAN PACIFIC SUPPLY COMPANY	2 SEALS	\$6,546.03	\$6,546.03
187396	5/9/2024		3977	REPCOR	4 PIPE PATCH WINTER	\$3,787.65	\$6,249.62
	5/9/2024		3978		3 PIPE PATCH WINTER	\$2,461.97	
187443	5/16/2024	130	9721121	HF&H CONSULTANTS, LLC	SEWER RATE MODELING	\$6,086.25	\$6,086.25
187339	5/9/2024	170	2000877167	AECOM TECHNICAL SERVICES INC	HAZMAT CONSULTING SERVICES	\$5,934.32	\$5,934.32
187291	5/2/2024	121	422275	BRENNTAG PACIFIC INC	2552 LBS SODIUM HYDROXIDE	\$1,924.72	\$5,756.79
	5/2/2024	121	422276		5104 LBS SODIUM HYDROXIDE	\$3,832.07	
187294	5/2/2024	173	10722	CDW GOVERNMENT LLC	MFA CONTRACT	\$4,125.00	\$5,591.76
	5/2/2024	173	30192		1 FOB SWITCH	\$1,466.76	
187332	5/2/2024	113	EARE09241324	SWRCB - STATE WATER RESOURCES	ELAP ANNUAL RENWAL	\$5,525.00	\$5,525.00
187315	5/2/2024	123	909781	MISSION CLAY PRODUCTS LLC	ASTD CLAY FITTINGS	\$5,090.84	\$5,090.84
187475	5/16/2024	173	72408	WUNDERLICH-MALEC SYSTEMS INC	SCADA UPGRADE	\$4,812.50	\$4,812.50

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187417	5/16/2024	130	13VVMKFXPNL	AMAZON.COM LLC	ASTD OFFICE SUPPLIES	\$50.01	\$4,342.46
	5/16/2024	113	17KT64CCLC6D		4 LABORATORY CARTS	\$4,270.52	
	5/16/2024	170	1VHYM7MRLJ3G		ASTD OFFICE SUPPLIES	\$21.93	
187363	5/9/2024	170	9070586129	GRAINGER INC	ASTD PARTS & MATERIALS	\$846.13	\$4,250.94
	5/9/2024		9072162226		ASTD PARTS & MATERIALS	\$665.58	
	5/9/2024		9073553191		ASTD PARTS & MATERIALS	\$1,441.51	
	5/9/2024	122	9074564155		ASTD PARTS & MATERIALS	\$49.10	
	5/9/2024	110	9074965212		ASTD PARTS & MATERIALS	\$169.33	
	5/9/2024	111	9076106005		ASTD PARTS & MATERIALS	\$199.38	
	5/9/2024		9076664599		ASTD PARTS & MATERIALS	\$232.78	
	5/9/2024	170	9076664607		ASTD PARTS & MATERIALS	\$647.13	
187287	5/2/2024	122	35756	BAYSCAPE LANDSCAPE MANAGEMENT	LANDSCAPE MAINTENANCE SERVICES - TREE SERVICES	\$4,135.00	\$4,135.00
187413	5/9/2024	143	2057967	WEST YOST ASSOCIATES	FORCE MAIN CORROSION REPAIRS PROJECT PHASE 4	\$4,061.75	\$4,061.75
187335	5/2/2024		9962175712	VERIZON WIRELESS	WIRELESS SERV 03/21/24-04/20/24	\$1,120.30	\$3,935.66
	5/2/2024		9962175713		WIRELESS SERV 03/21/24-04/20/24	\$2,815.36	
187342	5/9/2024		2633430	ALLIANT INSURANCE SERVICES INC	RAILROAD LIABILITY: EASEMENT ACCESS TO FORCE MAIN MANHOLE	\$3,611.30	\$3,611.30
187371	5/9/2024		90203955	IVANTI INC	IVANTI UPDATE SERVER RENEWAL	\$3,603.50	\$3,603.50

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187285	5/2/2024		21592028	AT&T	SERV: 03/20/24 - 04/19/24	\$29.07	\$3,573.03
	5/2/2024		21592030		SERV: 03/20/24 - 04/19/24	\$3,288.34	
	5/2/2024		21592052		SERV: 03/20/24 - 04/19/24	\$255.62	
187320	5/2/2024	170	013720240411	PACIFIC GAS AND ELECTRIC	SERV TO 04/04/24 BOYCE RD PS	\$3,527.65	\$3,527.65
187382	5/9/2024	113	2404466	MCCAMPBELL ANALYTICAL	LAB SAMPLE ANALYSIS	\$1,116.00	\$3,452.50
	5/9/2024	113	2404467		LAB SAMPLE ANALYSIS	\$549.00	
	5/9/2024	113	2404743		LAB SAMPLE ANALYSIS	\$731.00	
	5/9/2024	113	2404744		LAB SAMPLE ANALYSIS	\$847.50	
	5/9/2024	113	2404A85		LAB SAMPLE ANALYSIS	\$209.00	
187448	5/16/2024	113	2404744A	MCCAMPBELL ANALYTICAL	LAB SAMPLE ANALYSIS	\$38.00	\$3,384.50
	5/16/2024	113	2404A82		LAB SAMPLE ANALYSIS	\$220.00	
	5/16/2024	113	2404A83		LAB SAMPLE ANALYSIS	\$448.00	
	5/16/2024	113	2404A84		LAB SAMPLE ANALYSIS	\$733.50	
	5/16/2024	113	2404D84		LAB SAMPLE ANALYSIS	\$914.00	
	5/16/2024	113	2404D92		LAB SAMPLE ANALYSIS	\$1,031.00	
187385	5/9/2024		20240509	MICHAEL MINCHACA	COMPUTER NOTE	\$3,300.00	\$3,300.00
187455	5/16/2024		47254	HUGH NGUYEN	REFUND # 62087	\$3,300.00	\$3,300.00
187460	5/16/2024	120	916005648597	REPUBLIC SERVICES #916	RECYCLE & ROLL OFF - MAY 2024	\$3,250.14	\$3,250.14
187431	5/16/2024	170	41290	CRANETECH INC	OVERHEAD CRANE CERTIFICATIONS 2024	\$3,168.92	\$3,168.92

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187293	5/2/2024		20240501	GUSTAVO CARRILLO	COMPUTER NOTE	\$3,149.99	\$3,149.99
187390	5/9/2024		1517762	PACIFIC HIGHWAY RENTALS, LLC	TRAFFIC CONTROL	\$3,102.76	\$3,102.76
187434	5/16/2024		20240513	ART DIOSDADO	COMPUTER NOTE	\$3,000.00	\$3,000.00
187459	5/16/2024	141	20240508	QUADIENT INC	POSTAGE BY PHONE - TMS 8060344	\$3,000.00	\$3,000.00
187312	5/2/2024		20240502	RICHARD LEBON	COMPUTER NOTE	\$2,926.61	\$2,926.61
187349	5/9/2024	121	423973	BRENNTAG PACIFIC INC	1276 LBS SODIUM HYDROXIDE	\$962.36	\$2,878.39
	5/9/2024	121	423974		2552 LBS SODIUM HYDROXIDE	\$1,916.03	
187422	5/16/2024	121	425934	BRENNTAG PACIFIC INC	3828 LBS SODIUM HYDROXIDE	\$2,874.06	\$2,874.06
187303	5/2/2024	111	13992954	HACH COMPANY	1 PORTABLE TURBIDIMETER	\$2,742.17	\$2,742.17
187386	5/9/2024	170	146694	NEW IMAGE LANDSCAPING CO	LANDSCAPE MAINTENANCE - FMC - APR	\$2,645.04	\$2,645.04
187321	5/2/2024		29615654	PAN PACIFIC SUPPLY COMPANY	1 SEAL	\$2,514.41	\$2,514.41
187375	5/9/2024		49688	LAM RESEARCH CORP	REFUND # 62074	\$2,500.00	\$2,500.00
187412	5/9/2024	170	5092	WELCOME BUILDING MAINTENANCE	PLANT CAR PORT SOLAR PANEL CLEANING	\$2,500.00	\$2,500.00
187284	5/2/2024		5180323845	VESTIS SERVICES, LLC	UNIFORM LAUNDERING & RUGS	\$629.66	\$2,062.96
	5/2/2024		5180326677		UNIFORM LAUNDERING & RUGS	\$630.78	
	5/2/2024		5180326678		UNIFORM LAUNDERING SERVICE	\$686.56	
	5/2/2024	122	5180326679		ASTD DUST MOPS, WET MOPS & TERRY	\$115.96	
187438	5/16/2024	170	14006586	HACH COMPANY	PROBE REPAIRS	\$2,054.42	\$2,054.42
187360	5/9/2024		14268	ENERGY CHOICE INC	ASTD COGEN PARTS	\$2,039.24	\$2,039.24

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187433	5/16/2024		20240425	DALE HARDWARE INC	04/24 - ASTD PARTS & MATERIALS	\$2,007.16	\$2,007.16
187336	5/2/2024		8815750357	VWR INTERNATIONAL LLC	LAB SUPPLIES	\$66.83	\$1,904.28
	5/2/2024		8815771737		LAB SUPPLIES	\$1,402.23	
	5/2/2024		8815771738		LAB SUPPLIES	\$419.70	
	5/2/2024	113	8815771739		LAB SUPPLIES	\$15.52	
187323	5/2/2024	170	107326	PRIME MECHANICAL SERVICE INC	SERVICE: COGEN CHILLER 2 CAPACITORS	\$1,801.00	\$1,801.00
187281	5/2/2024	170	5507178595	AIRGAS NCN	CYLINDER RENTAL	\$1,233.55	\$1,788.34
	5/2/2024	171	9148405041		ASTD PARTS & MATERIAL	\$451.06	
	5/2/2024	122	9148685900		ASTD PARTS & MATERIAL	\$103.73	
187432	5/16/2024	120	20240513	CWEA	2 CERT & 7 MEMBERSHIP RENEWALS - CS 9 EMPLOYEES	\$1,758.00	\$1,758.00
187307	5/2/2024	173	4092403	INDUSTRIAL VIDEO & CONTROL	CAMERA SUPPORT AND MAINTENANCE	\$1,595.00	\$1,595.00
187365	5/9/2024	122	44240	HAYWARD PIPE AND SUPPLY	ASTD PARTS & MATERIALS	\$229.50	\$1,549.58
	5/9/2024	122	44254		ASTD PARTS & MATERIALS	\$447.72	
	5/9/2024	122	44274		ASTD PARTS & MATERIALS	\$872.36	
187466	5/16/2024		6001642565	STAPLES CONTRACT & COMMERCIAL	JANITORIAL & BREAKROOM SUPPLIES	\$58.25	\$1,500.35
	5/16/2024		6001642566		JANITORIAL & BREAKROOM SUPPLIES	\$347.23	
	5/16/2024		6001642567		JANITORIAL & BREAKROOM SUPPLIES	\$114.74	
	5/16/2024		6001642568		JANITORIAL & BREAKROOM SUPPLIES	\$433.81	
	5/16/2024		6001642569		JANITORIAL & BREAKROOM SUPPLIES	\$546.32	

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187302	5/2/2024	170	9064245344	GRAINGER INC	ASTD PARTS & MATERIALS	\$187.68	\$1,487.16
	5/2/2024	111	9064933279		ASTD PARTS & MATERIALS	\$92.07	
	5/2/2024		9065052244		ASTD PARTS & MATERIALS	\$596.07	
	5/2/2024	114	9066508178		ASTD PARTS & MATERIALS	\$47.26	
	5/2/2024	171	9066770661		ASTD PARTS & MATERIALS	\$351.43	
	5/2/2024	170	9069601178		ASTD PARTS & MATERIALS	\$212.65	
187427	5/16/2024	173	50876	CDW GOVERNMENT LLC	FOB SWITCHES	\$1,385.00	\$1,385.00
187383	5/9/2024		26256673	MCMaster SUPPLY INC	ASTD PARTS & MATERIALS	\$772.93	\$1,348.45
	5/9/2024		26417912		ASTD PARTS & MATERIALS	\$575.52	
187328	5/2/2024		2168192004	SAN LEANDRO ELECTRIC SUPPLY	ASTD ELECTRICAL SUPPLIES	\$1,242.91	\$1,314.49
	5/2/2024		2192690002		ASTD ELECTRICAL SUPPLIES	\$71.58	
187425	5/16/2024	173	6007812114	CANON SOLUTIONS AMERICA INC	MTHLY MAINTENANCE BASED ON USE	\$796.61	\$1,214.36
	5/16/2024	173	6007813135		MTHLY MAINTENANCE BASED ON USE	\$417.75	
187445	5/16/2024		768520240426	HOME DEPOT CREDIT SERVICES	MONTHLY HARDWARE STMT - APR 2024	\$1,191.90	\$1,191.90
187468	5/16/2024	173	396389	TABLETMEDIA INC	ANNUAL TABLET MEDIA SUPPORT	\$1,185.00	\$1,185.00
187346	5/9/2024		5180329153	VESTIS SERVICES, LLC	UNIFORM LAUNDERING & RUGS	\$522.46	\$1,167.69
	5/9/2024		5180329154		UNIFORM LAUNDERING SERVICE	\$645.23	
187465	5/16/2024		20240513	SAM SOTH	COMPUTER NOTE	\$1,142.51	\$1,142.51

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187436	5/16/2024	170	9079397361	GRAINGER INC	ASTD PARTS & MATERIALS	\$21.14	\$1,094.76
	5/16/2024		9082491383		ASTD PARTS & MATERIALS	\$981.28	
	5/16/2024	170	9082491391		ASTD PARTS & MATERIALS	\$31.68	
	5/16/2024	170	9083418732		ASTD PARTS & MATERIALS	\$60.66	
187451	5/16/2024	170	247321	NAYLOR STEEL INC	ASTD METAL, STEEL, STAINLESS & ALUMINUM	\$536.03	\$1,072.06
	5/16/2024	170	247322		ASTD METAL, STEEL, STAINLESS & ALUMINUM	\$536.03	
187388	5/9/2024	173	2062504	O'REILLY MEDIA INC	SAFARI BOOKS ONLINE SUBSCRIPTION RENEWAL	\$1,058.78	\$1,058.78
187348	5/9/2024	136	2522624071	BANK OF NEW YORK	MAR 2024 SERVICE FEES	\$1,009.94	\$1,009.94
187359	5/9/2024		49698	ELITE ROOTER INC	REFUND # 62065	\$500.00	\$1,000.00
	5/9/2024		49698.1		REFUND # 62066	\$500.00	
187347	5/9/2024	170	157281	BABBITT BEARING CO INC	1 WEMCO SHAFT SLEEVE	\$988.91	\$988.91
187300	5/2/2024	173	20240425	MICHAEL GILL	EXP REIMB: PUBLIC CERTIFICATION RENEWAL	\$899.98	\$899.98
187313	5/2/2024	113	2404190	MCCAMPBELL ANALYTICAL	LAB SAMPLE ANALYSIS	\$698.50	\$898.50
	5/2/2024	113	2404206		LAB SAMPLE ANALYSIS	\$200.00	
187393	5/9/2024	122	107421	PRIME MECHANICAL SERVICE INC	SERVICE CALL: BLDG 83 - HEATING ISSUE	\$875.00	\$875.00
187286	5/2/2024		350588805	AT&T	SERV: 04/11/24 - 05/10/24	\$872.58	\$872.58

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187325	5/2/2024	121	8201160621	RED WING BUS ADVANTAGE ACCT	SAFETY SHOES: C. YBARRA-MARTINEZ	\$225.00	\$837.41
	5/2/2024	121	8201160922		SAFETY SHOES: C. BYBEE	\$215.54	
	5/2/2024	121	82021703		SAFETY SHOES: J. POWELL	\$218.28	
	5/2/2024	171	82021806		SAFETY SHOES: C. PARKER	\$178.59	
187367	5/9/2024		3150310888	IDEXX DISTRIBUTION INC	ASTD LAB SUPPLIES	\$38.17	\$766.08
	5/9/2024	113	3150310889		ASTD LAB SUPPLIES	\$727.91	
187317	5/2/2024	170	2401057130	MOTION INDUSTRIES INC	ASTD PARTS & MATERIALS	\$750.75	\$750.75
187319	5/2/2024	122	2868	PACIFIC CRANE INSPECTION	QUARTERLY CRANE INSPECTION	\$750.00	\$750.00
187449	5/16/2024		25804282	MCMASTER SUPPLY INC	ASTD PARTS & MATERIALS	\$167.12	\$748.88
	5/16/2024	170	26558571		ASTD PARTS & MATERIALS	\$178.67	
	5/16/2024		26629063		ASTD PARTS & MATERIALS	\$380.88	
	5/16/2024	170	26801414		ASTD PARTS & MATERIALS	\$22.21	
187397	5/9/2024	170	507105	RKI INSTRUMENTS INC	ASTD PARTS & MATERIALS	\$739.26	\$739.26
187290	5/2/2024	143	20240429	CURTIS BOSICK	EXP REIMB: EMERGING LEADER TRAINING-LODGING, PER DIEM, SHUT	\$703.77	\$703.77
187428	5/16/2024	132	287412	CLAREMONT BEHAVIORAL SERVICES	MAY 2024 EAP PREMIUMS	\$676.20	\$676.20
187343	5/9/2024	170	53268	ALLIED FLUID PRODUCTS CORP	4 PTFE SHEETS	\$425.66	\$616.03
	5/9/2024		53309		30 - GASKETS	\$190.37	
187295	5/2/2024	122	338129	CENTERVILLE LOCKSMITH	49 ASTD KEYS & 1 DOOR CLOSER - LABOR	\$609.85	\$609.85
187305	5/2/2024	136	180710	HANIGAN COMPANY INC	WINDOW ENVELOPES	\$600.05	\$600.05

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187306	5/2/2024		605444336	HILLYARD/SAN FRANCISCO	ASTD JANITORIAL SUPPLIES	\$542.30	\$542.30
187462	5/16/2024		8096589102	RS HUGHES CO INC	ASTD SAFETY SUPPLIES	\$529.27	\$529.27
187318	5/2/2024		8487300	OVIVO USA LLC	CLARIFIER PART	\$528.45	\$528.45
187404	5/9/2024	132	54776	SLOAN SAKAI YEUNG & WONG LLP	SPECIAL COUNSEL SERVICES	\$528.00	\$528.00
187311	5/2/2024		45187	LA MESA FUND CONTROL & ESCROW	REFUND # 62048	\$500.00	\$500.00
187333	5/2/2024		36876	IRMA TIJERO	REFUND # 62056	\$500.00	\$500.00
187345	5/9/2024		49664	GERALD ANNIS	REFUND # 62075	\$500.00	\$500.00
187353	5/9/2024		48348	CASTILLO BAY BUILDERS	REFUND # 62059	\$500.00	\$500.00
187376	5/9/2024		49598	CHEE KIAN LIM	REFUND # 62081	\$500.00	\$500.00
187392	5/9/2024		22978	MADHVI PARIKH	REFUND # 62072	\$500.00	\$500.00
187399	5/9/2024		49623	ROTO-ROOTER SERVICES	REFUND # 62078	\$500.00	\$500.00
187407	5/9/2024		49589	TRENCHFREE INC	REFUND # 62071	\$500.00	\$500.00
187411	5/9/2024		45143	VARGAS CONSTRUCTION	REFUND # 62061	\$500.00	\$500.00
187418	5/16/2024		49676	ARS - RESCUE ROOTER BAY AREA E	REFUND # 62097	\$500.00	\$500.00
187461	5/16/2024		50733	ROOTER HERO	REFUND # 62095	\$500.00	\$500.00
187314	5/2/2024		24790813	MCMASTER SUPPLY INC	6 BELTS	\$135.82	\$498.46
	5/2/2024		25889996		ASTD PARTS & MATERIALS	\$362.64	
187301	5/2/2024	144	4089406213	GLACIER ICE COMPANY INC	216 5-LB CUBE OF ICE	\$479.25	\$479.25
187444	5/16/2024		605462401	HILLYARD/SAN FRANCISCO	ASTD JANITORIAL SUPPLIES	\$451.26	\$451.26

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187352	5/9/2024	170	10010155180	CARBOLINE COMPANY	PAINT & RELATED PAINT SUPPLIES	\$433.18	\$433.18
187282	5/2/2024	170	5306565	ALL INDUSTRIAL ELECTRIC SUPPLY	ASTD PARTS & MATERIALS	\$430.82	\$430.82
187374	5/9/2024	170	53960	KLEEN INDUSTRIAL SERVICES	DISPOSAL OF KLEEN BLAST	\$411.55	\$411.55
187471	5/16/2024	113	8815918128	VWR INTERNATIONAL LLC	LAB SUPPLIES	\$82.01	\$409.67
	5/16/2024	113	8815922152		LAB SUPPLIES	\$73.18	
	5/16/2024	113	8815926156		LAB SUPPLIES	\$158.28	
	5/16/2024	113	8815926157		LAB SUPPLIES	\$96.20	
187380	5/9/2024		5879203	MALLORY SAFETY AND SUPPLY LLC	CALIBRATION GAS	\$405.87	\$405.87
187401	5/9/2024		2196036002	SAN LEANDRO ELECTRIC SUPPLY	ASTD ELECTRICAL SUPPLIES	\$219.44	\$373.88
	5/9/2024		2196036003		ASTD ELECTRICAL SUPPLIES	\$154.44	
187381	5/9/2024	170	771108161	MATHESON TRI-GAS INC	MONTHLY CYLINDER RENTAL - MAR 2024	\$355.64	\$355.64
187338	5/2/2024	144	5679	ZELAYA DESIGNS	GRAPHIC DESIGN SVCS FOR PUBLIC OUTREACH	\$354.00	\$354.00
187450	5/16/2024	170	655294257	METTLER-TOLEDO INC	LAB BALANCER SERVICE AGREEMENT	\$350.13	\$350.13
187379	5/9/2024	110	20240502	NOAH LUNDY	EXP REIMB: GRADE IV REVIEW CLASS	\$349.99	\$349.99
187421	5/16/2024	143	18793420	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$343.77	\$343.77
187442	5/16/2024	113	20240508	ALEXANDRO HERNANDEZ	EXP REIMB: CWEA MEMBERSHIP	\$221.00	\$334.00
	5/16/2024	113	20240514		EXP REIMB: CWEA LAB GRADE 4 RENEWAL	\$113.00	
187331	5/2/2024	111	20240419	SAM SOTH	EXP REIMB: PARKING, LUNCH & MILEAGE - CWEA CONF	\$318.69	\$318.69
187415	5/16/2024		5799350001	ALAMEDA ELECTRICAL DISTR. INC.	ASTD ELECTRICAL SUPPLIES	\$318.27	\$318.27

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187357	5/9/2024		477954	DALE HARDWARE INC	MISC HARDWARE	\$302.85	\$302.85
187437	5/16/2024	110	20240513	TIMOTHY GRILLO	EXP REIMB: WEF & CWEA MEMBERSHIP RENEWAL	\$296.00	\$296.00
187344	5/9/2024	170	13VVMKFXCKL1	AMAZON.COM LLC	ASTD OFFICE SUPPLIES	\$48.30	\$284.30
	5/9/2024	120	144D6J9KWDLN		ASTD OFFICE SUPPLIES	\$93.51	
	5/9/2024	170	1T1NT6W9WNRW		ASTD OFFICE SUPPLIES	\$92.89	
	5/9/2024	171	1VF9CTMRQ3FW		ASTD OFFICE SUPPLIES	\$49.60	
187446	5/16/2024	111	20240509	ANTHONY LULLO	EXP REIMB: TPO SAFETY RECOGNITION 1ST - 4TH QTR	\$283.27	\$283.27
187463	5/16/2024	122	1818724411	SAFELITE GLASS CORPORATION	REPLACE WINDSHIELD T1361	\$283.22	\$283.22
187370	5/9/2024	173	6085492	INTRADO LIFE & SAFETY INC	E911 ANNUAL SUBSCRIPTION	\$268.75	\$268.75
187362	5/9/2024	170	1608464	FISHER SCIENTIFIC	LAB SUPPLIES	\$249.77	\$249.77
187369	5/9/2024	170	1926102012014	INTERSTATE ALL BATTERY CENTER	ASTD BATTERIES	\$225.38	\$225.38
187288	5/2/2024	171	27729900	BECK'S SHOES	SAFETY SHOES: M. TATAKAMOTONGA	\$225.00	\$225.00
187356	5/9/2024	132	82827652	CONCENTRA MEDICAL CENTERS	5 HEARING TESTS	\$185.00	\$185.00
187355	5/9/2024	143	20240502	KEVIN CHUN	EXP REIMB: PE LICENSE RENEWAL FEE	\$180.00	\$180.00
187329	5/2/2024	123	56243	SCHAA'S LAWNMOWER SALES & SERV	ASTD PARTS & MATERIALS	\$170.01	\$170.01
187405	5/9/2024	111	20240502	SWRCB - STATE WATER RESOURCES	GRADE III OPERATOR CERTIFICATE - R BAINS	\$170.00	\$170.00
187289	5/2/2024	130	18763700	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$16.98	\$169.42
	5/2/2024	120	18771880		ASTD OFFICE SUPPLIES	\$152.44	
187334	5/2/2024	136	98XW53144	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 04/06/24	\$166.12	\$166.12

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04/26/2024-05/17/2024**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
187326	5/2/2024		127525	REMOTE SATELLITE SYSTEMS INT'L	IRIDIUM SVC FEE MAY 2024	\$148.00	\$148.00
187283	5/2/2024	170	13GQG9XGKFPL	AMAZON.COM LLC	ASTD OFFICE SUPPLIES	\$55.36	\$146.37
	5/2/2024	122	1CR6J6GJMN3X		ASTD OFFICE SUPPLIES	\$21.90	
	5/2/2024	120	1YRLTT6KRD7N		ASTD OFFICE SUPPLIES	\$69.11	
187447	5/16/2024		5879857	MALLORY SAFETY AND SUPPLY LLC	36 PR GLOVES	\$145.53	\$145.53
187424	5/16/2024	143	91434461	CALIFORNIA SURVEYING DRAFTING	GPS SURVEY EQUIPMENT RENTAL	\$142.00	\$142.00
187358	5/9/2024	121	31858	DANOC MANUFACTURING	1 WINTER SAFETY JACKET - C. BYBEE	\$128.93	\$128.93
187430	5/16/2024	110	20240510	MITCHELL COSTELLO	EXP REIMB: LUNCH MEETING WITH R. THOW	\$29.90	\$127.19
	5/16/2024	110	20240513		EXP REIMB: TPO STAFF RECOGNITION MEAL	\$97.29	
187454	5/16/2024	143	202400000014	CITY OF NEWARK	ENCROACHMENT PERMITS-FY 23 CAST IRON/PIPING LINING	\$110.00	\$110.00
187330	5/2/2024	113	20240430	JOHN SEO	EXP REIMB: CWEA EC-1 CERTIFICATE RENEWAL	\$98.00	\$98.00
187351	5/9/2024	113	718945	CALTEST ANALYTICAL LABORATORY	2 LAB SAMPLE ANALYSIS	\$93.84	\$93.84
187439	5/16/2024	141	180391	HANIGAN COMPANY INC	BUSINESS CARDS - S. QUACH & J. ATHERTON	\$91.46	\$91.46
187384	5/9/2024	120	20240508	TYLER MELLO	EXP REIMB: CLASS A CDL PHYSICAL	\$90.00	\$90.00
187458	5/16/2024	121	20240513	JOHN POWELL	EXP REIMB: DOT PHYSICAL	\$90.00	\$90.00
187402	5/9/2024	123	56313	SCHAA'S LAWNMOWER SALES & SERV	ASTD PARTS & MATERIALS	\$89.95	\$89.95
187327	5/2/2024	170	85340220240422	SAN FRANCISCO WATER DEPT	SERVICE 03/20/24 - 04/18/24	\$85.92	\$85.92
187400	5/9/2024		8096589101	RS HUGHES CO INC	ASTD SAFETY SUPPLIES	\$81.16	\$81.16
187341	5/9/2024	170	408644120240422	ALAMEDA COUNTY WATER DISTRICT	SERV: 02/23/2023 TO 04/19/24 - BOYCE ROAD	\$78.29	\$78.29

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Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
187452	5/16/2024	120	20240509	SHAWN NESGIS	EXP REIMB: LUNCH FOR STAFF & OUTREACH VIDEO CREW	\$71.99	\$71.99
187292	5/2/2024	132	727444	STATE OF CALIFORNIA	2 NEW HIRE FINGERPRINT	\$64.00	\$64.00
187464	5/16/2024		2196036001	SAN LEANDRO ELECTRIC SUPPLY	ASTD ELECTRICAL SUPPLIES	\$57.21	\$57.21
187350	5/9/2024	113	20240507	MARY GRACE CALANOG	EXP REIMB: MILEAGE, PARKING FEES BACWA MEETING	\$56.44	\$56.44
187408	5/9/2024	150	444042	ULTRAEX LLC	COURIER SVCS: 1 BOARDMEMBER DELIVERY - 04/03/24	\$56.30	\$56.30
187398	5/9/2024	120	20240507	JESSICA RODRIGUEZ	EXP REIMB: CS WORK GROUP PLANNING MEETING	\$55.50	\$55.50
187378	5/9/2024	110	20240507	ARMANDO LOPEZ	EXP REIMB: VIDEO TO DIGITAL CONVERSION	\$53.12	\$53.12
187299	5/2/2024	111	20240429	MICHAEL FULKERSON	EXP REIMB: SAFETY BOOT INSOLES	\$52.04	\$52.04
187337	5/2/2024	122	2922297001	WHCI PLUMBING SUPPLY CO	ASTD PARTS & MATERIALS	\$41.18	\$41.18
187457	5/16/2024	132	20240411	JULIA PETZOLDT	EXP REIMB: LIVESCAN FEE PRE-EMPLOYMENT	\$40.00	\$40.00
187429	5/16/2024	132	82910452	CONCENTRA MEDICAL CENTERS	1 HEARING TEST	\$37.00	\$37.00
187310	5/2/2024	173	12230823	KRONOS SAASHR INC	UKG READY TESTING OVERAGE	\$36.00	\$36.00
187409	5/9/2024	136	98XW53154	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 04/13/24	\$32.90	\$32.90
187469	5/16/2024	136	98XW53164	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 04/20/24	\$32.90	\$32.90
187354	5/9/2024	122	338238	CENTERVILLE LOCKSMITH	10 KEYS	\$32.67	\$32.67
187406	5/9/2024	130	20240502	ARIEL TEIXEIRA	EXP REIMB: SNACKS FOR FAST MTG	\$24.63	\$24.63
187316	5/2/2024	170	2446	MORSE HYDRAULICS USA LLC	ASTD PARTS & MATERIALS	\$9.57	\$9.57

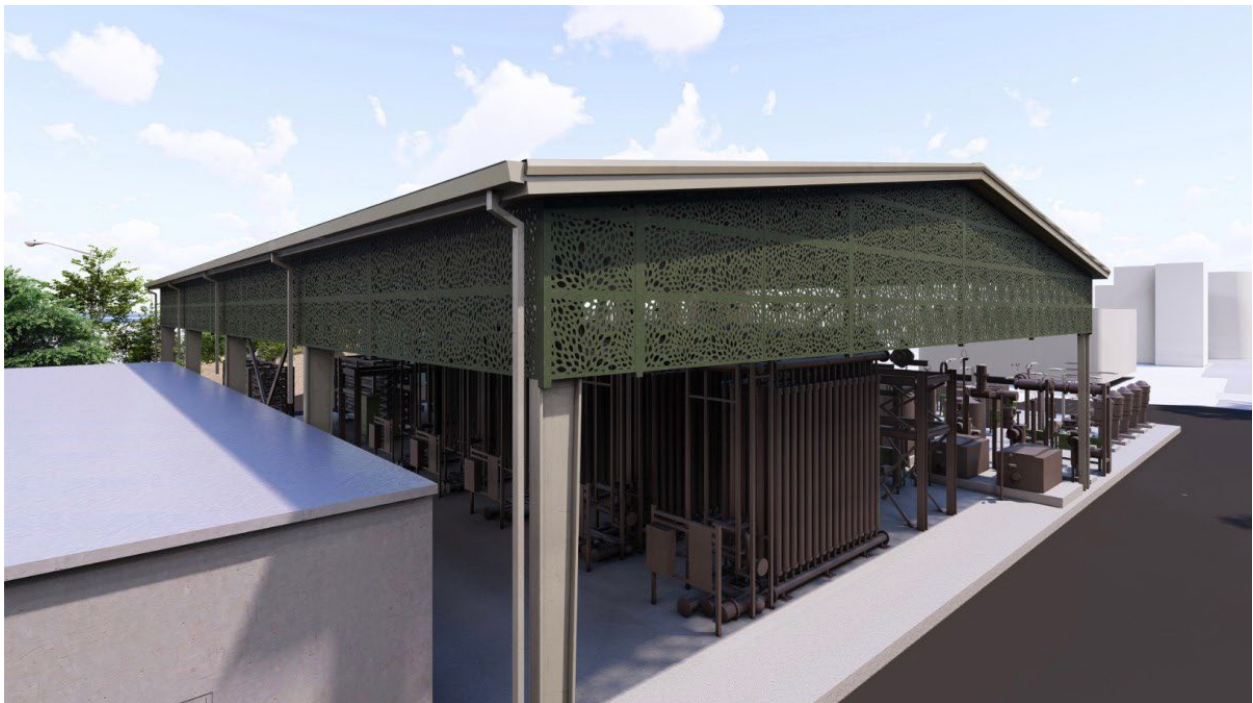
**UNION SANITARY DISTRICT
CHECK REGISTER
04/26/2024-05/17/2024**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Am
Invoices:					Checks:		
Credit Memos :			0				
\$0 - \$1,000 :			180	56,858.23	\$0 - \$1,000 :	97	33,538.88
\$1,000 - \$10,000 :			72	252,198.04	\$1,000 - \$10,000 :	69	246,306.07
\$10,000 - \$100,000 :			34	1,058,869.74	\$10,000 - \$100,000 :	22	787,980.53
Over \$100,000 :			8	3,334,157.49	Over \$100,000 :	7	3,634,258.02
Total:			294	4,702,083.50	Total:	195	4,702,083.50

Palo Alto moves ahead with plant to purify wastewater

New facility at Embarcadero Way looks to make more treated wastewater suitable for irrigation

by **Gennady Sheyner**



An open-air building is one of three structures that will make up the new water purification system at the Regional Water Quality Control Plant. Courtesy city of Palo Alto

Seeking to squeeze more value out of wastewater, the Palo Alto City Council approved on May 13 the construction of a \$63-million salt-removing plant in the Baylands.

Known as the Local Advanced Water Purification System, the plant will go up at the periphery of the Regional Water Quality Control Plant, the industrial facility at 2501 Embarcadero Way that serves Palo Alto, Mountain View, Los Altos, Los Altos Hills, Stanford University and the

East Palo Alto Sanitary District. It will consist of three structures: a 30-foot-tall storage tank, an open-air building and a prefabricated building. They would go up at the northwest side of the regional plant, next to Embarcadero Road.

Unlike other advanced purification systems, the new Palo Alto plant will not make wastewater safe for drinking. It will, however, make more wastewater suitable for irrigation and industrial uses and allow the city to expand the “purple pipe” network that currently brings recycled water to Greer Park, the Bay Links Golf Course, and dozens of commercial customers in Mountain View.

“That higher-quality recycled water decreases potable water demand for irrigation uses,” project planner Claire Raybould said during the May 13 hearing on the project.

The additional recycled water would mostly flow to Mountain View, which will be charged with repaying the state loan that is enabling the construction. In Palo Alto, there is currently no demand for higher-quality recycled water, according to a report from the Department of Planning and Development Services.

Plans for the salt-removal plant have been in the works for well over a decade. In 2010, the City Council adopted a policy to reduce the level of total dissolved solids of recycled water to 600 parts per million, safe enough to make it palatable to redwood trees and other salt-sensitive species. The project received a boost in 2019, when Palo Alto reached a 76-page agreement with the Santa Clara Valley Water District that obliged the water district to pay \$16 million for the new plant, which at the time had an estimated cost of \$20 million.

Though the costs have more than tripled since then, the partner agencies have been able to tap into new funding sources, including a \$12.9 million grant from the U.S. Bureau of Reclamation and a state loan of \$34.7 million, which will be covered by Mountain View.

On May 13, the project received its final green light when the council swiftly and unanimously approved the site and design application that was required to advance the project, which will rely on an industrial

process known as reverse osmosis to filter salt out of wastewater. The storage tank will be able to hold 350,000 gallons of wastewater.

If things go as planned, construction would begin early next year and conclude in the summer of 2027, Raybould said.

For the design team, a key challenge has been making sure that the new treatment plant will be compatible with the Baylands habitat. Over the course of the review process, plans had been revised to integrate more native plants into the design and to make sure that the lighting is soft enough to not disrupt birds and other Baylands denizens.

Shani Kleinhaus, an environmental advocate with the Santa Clara Valley Audubon Society, pushed the city to lower the color temperature of the lighting at the plant to 3,000 kelvins, well below the level of the 5,000 threshold that was initially proposed.

“Lights with lower color temperature, typically below 3,000 kelvins, have warmer color and have been shown to be less impactful and harmful to the environment, less impactful on natural behavior and activity of nocturnal animals and also less harmful to the health of night workers – people who work the night shift,” Kleinhaus told the council.

The city’s Architectural Review Board ultimately accepted that suggestion, despite concerns from staff and some board members that the lower color temperature could compromise worker safety. The design team rejected this recommendation but agreed to lower the temperature to 4,000 kelvins, which corresponds to a mostly white light with a slight yellow tint.

Diego Martinez-Garcia, an engineer with the Public Works Department, noted that all the LED lighting at the new plant will be focused on the work area.

“As part of the planning process we performed a lighting study that showed how the spillover from light really doesn’t go out beyond where it needs to be underneath the canopy,” Martinez-Garcia said.

The council broadly supported the staff recommendation for the new plant, which is one of two water-purification facilities that are slated for

construction in the coming years. As part of the 2019 agreement, Valley Water is also pursuing a water-treatment plant at 1237 San Antonio Road, next to the city's soon-to-be-constructed transitional housing project. Unlike the Embarcadero Way plant, the one on San Antonio will purify water to potable levels.

Council member Pat Burt lauded the design team and the city's various review boards for refining the design of the Embarcadero plant and integrating native species into the landscaping plan. Vice Mayor Ed Lauing called the project a great example of teamwork among the city's different departments and review bodies.

"To me this is a good case study," Lauing said. "You don't go out and solve every problem but it's a really good effort."



The storage tank, seen here from Embarcadero Way, is one of three structures that will make up the new water purification system at the Regional Water Quality Control Plant. Courtesy city of Palo Alto