



USD TREAT
PROTECT
PRESERVE
est. 1918
TRI-CITY WASTEWATER

Union Sanitary District

Union City, California

Adopted Operating and CIP Budget FY 2024



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INTRODUCTION



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

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Board of Directors



Jennifer Toy



Anjali Lathi



Manny Fernandez



Tom Handley



Pat Kite



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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

Karen W. Murphy
Attorney

MEMO TO: Board of Directors - Union Sanitary District

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

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

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

District Highlights

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

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

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

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

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

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

Financial State of the District

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

Revenue - Sewer Service Charges (SSC) are expected to increase by \$7.2 million in FY 2024 to \$84.2 million and interest earnings are budgeted to increase \$3.0 million to \$4.5 million.

Expenditures - Total District expenditures for the coming fiscal year are projected to increase by \$25.0 million or 18.1%. Operating expenses are anticipated to increase by \$4.7 million or 9.4%. Within the operating category, Salaries and Benefits are expected to increase \$1.2 million or 3.6%. The salary and benefit increases are primarily due to the addition of two new positions in the Treatment and Disposal Department and negotiated increases to salaries. The first is a Limited Duration Plant Operator 3 Trainee to assist with the impacts of the ETSU project on plant operations and the second position is a QA Chemist.

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

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

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

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

Balanced Budget, Reserves and Rates

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

Conclusion

Given the past fiscal stewardship practiced by the District's Board and staff, the District is well poised to take on the 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,

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

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FINANCIAL SECTION



ETSU Aeration Basin Construction

Budget Summary – All Funds

	Actual * FY 20/21	Actual * FY 21/22	Budget FY 22/23	Projected FY 22/23	Adopted Budget FY 23/24	Variance to 22/23 Budget	% Change
Revenues							
Sewer Service Charge	\$ 62,142,806	\$ 73,822,317	\$ 76,965,000	\$ 77,548,864	\$ 84,200,000	\$ 7,235,000	9.4%
Capacity Fees	9,358,209	11,145,152	7,467,000	8,701,518	8,420,000	953,000	12.8%
Work Group Revenues	1,315,019	1,307,546	1,234,500	1,362,903	1,353,500	119,000	9.6%
Interest	1,263,164	1,520,644	1,531,000	5,712,990	4,530,000	2,999,000	195.9%
Other Revenues	17,720	1,607,370	-	40,887	11,276	11,276	-
Net Loan Proceeds	-	110,317,768	-	-	-	-	-
SRF Funds Draw Down (Standby Power)	-	-	-	-	12,296,700	12,296,700	-
Total Revenues	74,096,918	199,720,798	87,197,500	93,367,162	110,811,476	23,613,976	27.1%

Expenditures by Type							
Operating	42,762,626	45,075,325	50,622,850	49,472,794	55,370,877	4,748,027	9.4%
Internal Service (1)	2,010,132	5,113,529	6,178,500	2,683,662	9,662,100	3,483,600	56.4%
Debt Service	4,387,915	7,231,990	9,017,480	8,981,016	9,134,080	116,600	1.3%
Special Projects	714,462	1,002,174	3,238,000	1,084,742	4,154,384	916,384	28.3%
Capital Projects	33,118,927	26,561,708	68,830,200	65,653,064	84,554,100	15,723,900	22.8%
Total Expenditures	82,994,062	84,984,726	137,887,030	127,875,279	162,875,541	24,988,511	18.1%

Revenues Over (under) Expenditures	\$ (8,897,144)	\$ 114,736,071	\$ (50,689,530)	\$ (34,508,117)	\$ (52,064,065)	\$ (1,374,535)	2.7%
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EXPENDITURES BY OPERATING GROUP							
Board of Directors	\$ 141,163	\$ 146,070	\$ 189,942	\$ 169,045	\$ 229,861	\$ 39,919	21.0%
General Manager	991,836	1,044,864	1,522,281	1,320,704	1,336,767	(185,514)	-12.2%
Business Services (2)	10,163,040	17,268,385	18,662,225	15,441,472	22,557,717	3,895,492	20.9%
Collection Services	7,643,479	7,528,445	8,910,580	8,826,397	8,931,936	21,356	0.2%
Technical Services	6,771,336	6,578,316	7,361,274	7,381,721	7,724,288	363,014	4.9%
Treatment & Disposal Services	13,937,436	15,123,376	17,837,232	17,325,429	21,468,508	3,631,276	20.4%
Fabrication, Maint & Construction	9,512,383	9,731,388	11,335,296	10,672,705	11,917,980	582,684	5.1%
Capital Projects (3)	33,118,927	26,561,708	68,830,200	65,653,064	84,554,100	15,723,900	22.8%
Special Projects (3)	714,462	1,002,174	3,238,000	1,084,742	4,154,384	916,384	28.3%
Total by Operating Group	\$ 82,994,062	\$ 84,984,726	\$ 137,887,030	\$ 127,875,279	\$ 162,875,541	\$ 24,988,511	18.1%

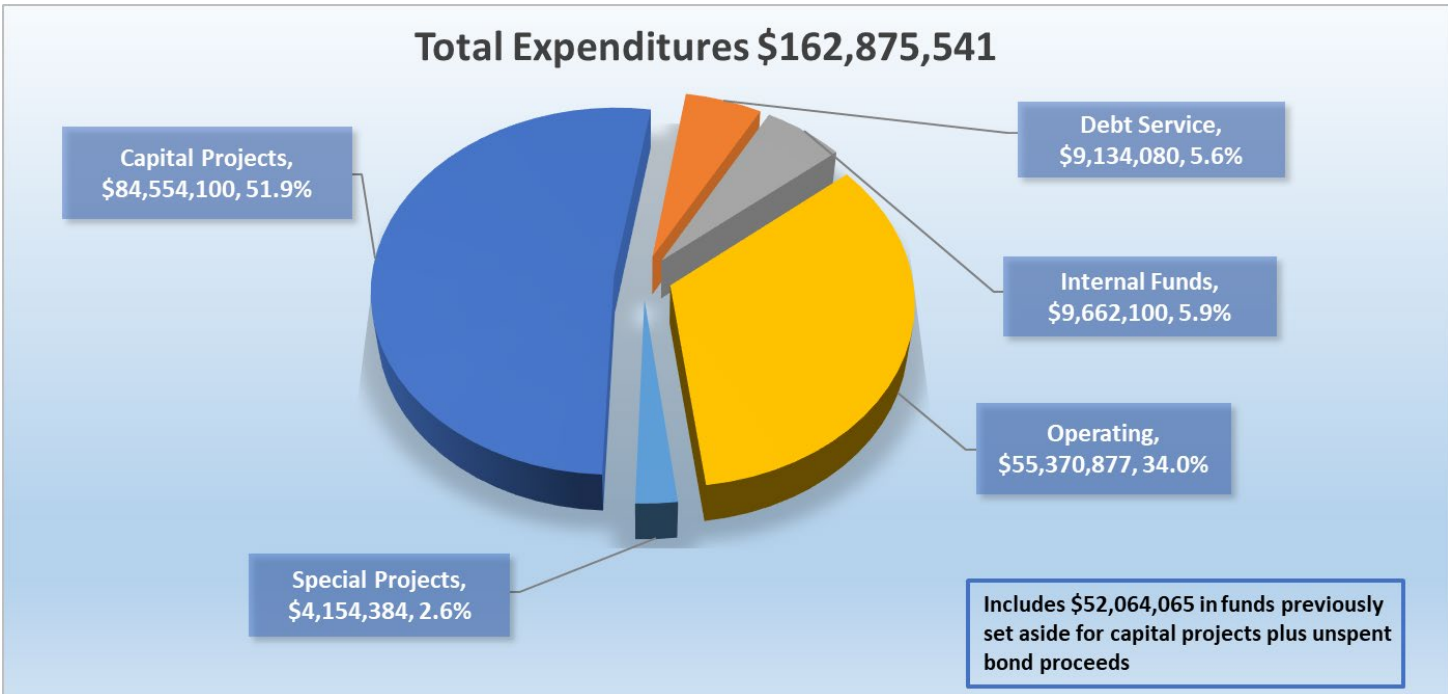
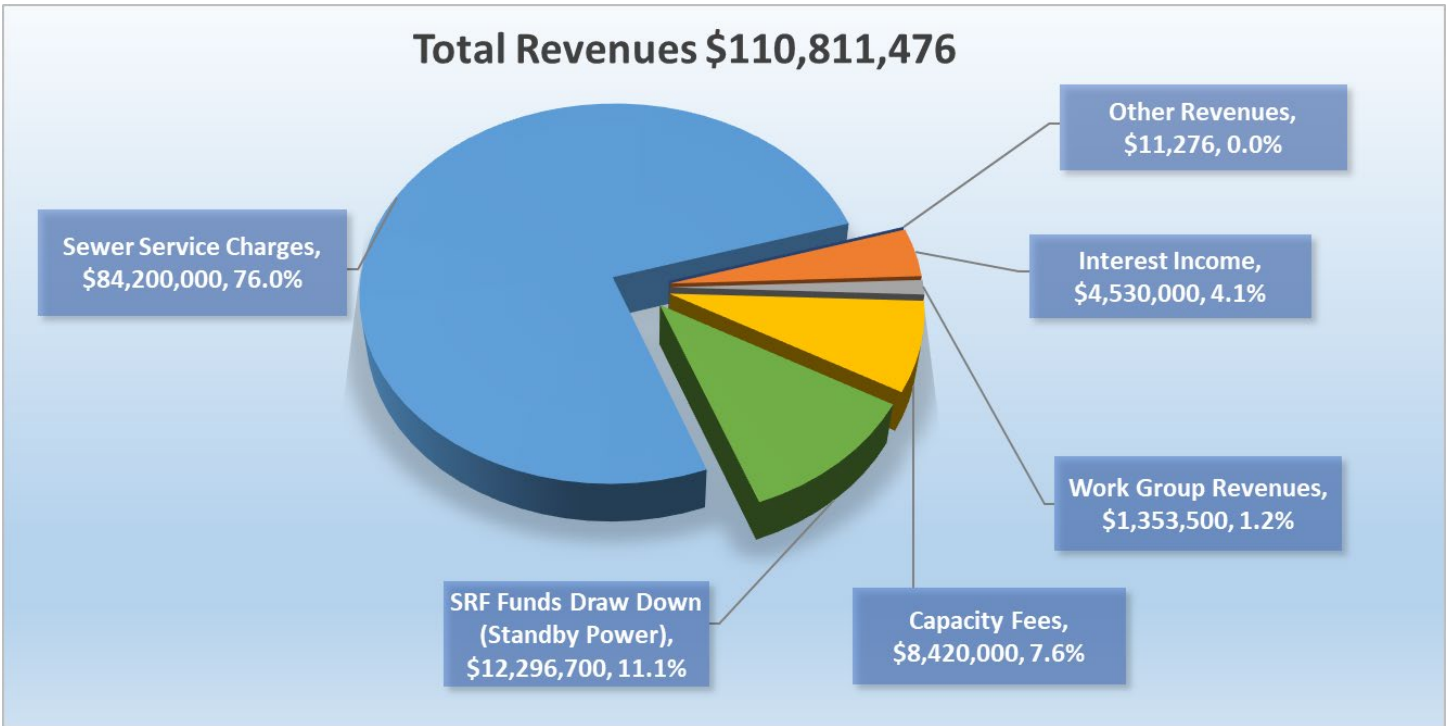
* Actual numbers based on modified accrual basis to reflect budget accounting.

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

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

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

District Wide Revenue & Expenditures



Combined Budget by Fund Sewer Service & Capacity Funds

	Sewer Service Fund	Capacity Fund	Total
Revenues			
Sewer Service Charge	\$ 84,200,000	\$ -	\$ 84,200,000
Capacity Fees	-	8,420,000	8,420,000
Work Group Revenues	1,353,500	-	1,353,500
Interest	2,605,000	1,925,000	4,530,000
Other Revenues	11,276	-	11,276
SRF Funds Draw Down (Standby Power)	12,296,700	-	12,296,700
Total Revenues	100,466,476	10,345,000	110,811,476
Expenditures			
Operating	55,370,877	-	55,370,877
Internal Funds (1)	9,662,100	-	9,662,100
Debt Service	4,943,833	4,190,247	9,134,080
Special Projects	4,154,384	-	4,154,384
Capital Projects	70,605,900	13,948,200	84,554,100
Total Expenditures	144,737,094	18,138,447	162,875,541
Revenues Over (less than) Expenditures	\$ (44,270,618)	\$ (7,793,447)	\$ (52,064,065)
EXPENDITURES BY OPERATING GROUP			
Board of Directors	\$ 229,861	\$ -	\$ 229,861
General Manager	1,336,767	-	1,336,767
Business Services (2)	18,367,470	4,190,247	22,557,717
Collection Services	8,931,936	-	8,931,936
Technical Services	7,724,288	-	7,724,288
Treatment & Disposal Services	21,468,508	-	21,468,508
Fabrication, Maint & Construction	11,917,980	-	11,917,980
Capital Projects (3)	70,605,900	13,948,200	84,554,100
Special Projects (3)	4,154,384	-	4,154,384
Total by Operating Group	\$ 144,737,094	\$ 18,138,447	\$ 162,875,541

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

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

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

REVENUES

	Actual * FY 20/21	Actual * FY 21/22	Budget FY 22/23	Projected FY 22/23	Adopted Budget FY 23/24	Variance to 22/23 Budget	% Change
Revenues							
Sewer Service Charge	\$62,142,806	\$ 73,822,317	\$ 76,965,000	\$ 77,548,864	\$ 84,200,000	\$ 7,235,000	9.4%
Capacity Fees	9,358,209	11,145,152	7,467,000	8,701,518	8,420,000	953,000	12.8%
Work Group Revenues	1,315,019	1,307,546	1,234,500	1,362,903	1,353,500	119,000	9.6%
Interest	1,263,164	1,520,644	1,531,000	5,712,990	4,530,000	2,999,000	195.9%
Other Revenues	17,720	1,607,370	-	40,887	11,276	11,276	-
Net Loan Proceeds	-	110,317,768	-	-	-	-	-
SRF Funds Draw Down (Standby Power)	-	-	-	-	12,296,700	12,296,700	-
Total Revenues	\$74,096,918	\$199,720,798	\$ 87,197,500	\$ 93,367,162	\$ 110,811,476	\$ 23,613,976	27.1%

* 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 \$7,235,000. Single Family Dwelling (SFD) rates will increase from \$530.21 in FY 2023 to \$569.97 in FY 2024. Similarly, the annual Multi-family Dwelling rate will increase from \$467.24 in FY 2023 to \$502.28 in FY 2024. Residential rates account for approximately 74% of total sewer service charge revenues. For non-residential customers, rates are calculated annually using flow based on water usage and sewage strength.

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

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

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

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

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

EXPENDITURES

ALL FUNDS SUMMARY							
	Actual *	Actual *	Budget	Projected	Adopted	Variance to	%
	FY 20/21	FY 21/22	FY 22/23	FY 22/23	Budget	22/23 Budget	Change
FY 23/24							
Expenditures by Type							
Operating	\$ 42,762,626	\$ 45,075,325	\$ 50,622,850	\$ 49,472,794	\$ 55,370,877	\$ 4,748,027	9.4%
Internal Service (1)	2,010,132	5,113,529	6,178,500	2,683,662	9,662,100	3,483,600	56.4%
Debt Service	4,387,915	7,231,990	9,017,480	8,981,016	9,134,080	116,600	1.3%
Special Projects	714,462	1,002,174	3,238,000	1,084,742	4,154,384	916,384	28.3%
Capital Projects	33,118,927	26,561,708	68,830,200	65,653,064	84,554,100	15,723,900	22.8%
Total Expenditures	82,994,062	84,984,726	137,887,030	127,875,279	162,875,541	24,988,511	18.1%
EXPENDITURES BY OPERATING GROUP							
Board of Directors	\$ 141,163	\$ 146,070	\$ 189,942	\$ 169,045	\$ 229,861	\$ 39,919	21.0%
General Manager	991,836	1,044,864	1,522,281	1,320,704	1,336,767	(185,514)	-12.2%
Business Services (2)	10,163,040	17,268,385	18,662,225	15,441,472	22,557,717	3,895,492	20.9%
Collection Services	7,643,479	7,528,445	8,910,580	8,826,397	8,931,936	21,356	0.2%
Technical Services	6,771,336	6,578,316	7,361,274	7,381,721	7,724,288	363,014	4.9%
Treatment & Disposal Services	13,937,436	15,123,376	17,837,232	17,325,429	21,468,508	3,631,276	20.4%
Fabrication, Maint & Construction	9,512,383	9,731,388	11,335,296	10,672,705	11,917,980	582,684	5.1%
Capital Projects (3)	33,118,927	26,561,708	68,830,200	65,653,064	84,554,100	15,723,900	22.8%
Special Projects (3)	714,462	1,002,174	3,238,000	1,084,742	4,154,384	916,384	28.3%
Total by Operating Group	\$ 82,994,062	\$ 84,984,726	\$ 137,887,030	\$ 127,875,279	\$ 162,875,541	\$ 24,988,511	18.1%

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

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

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

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

Overall, District expenditures are expected to increase by \$24,988,511 or 18.1%. The following pages discuss the significant change in expenditures for FY 2024, primarily due to increases in capital spending.

Operating Expenses							
	Actual FY 20/21	Actual FY 21/22	Budget FY 22/23	Projected FY 22/23	Adopted Budget FY 23/24	Variance to 22/23 Budget	% Change
Salaries & Benefits							
Salaries	\$ 20,223,882	\$ 20,218,245	\$ 20,895,024	\$ 20,917,405	\$ 21,588,146	\$ 693,122	3.3%
Pension	5,679,202	6,290,913	7,477,754	7,477,754	7,750,977	273,223	3.7%
Health Care Benefits	3,127,675	3,157,951	4,091,352	4,091,352	4,231,292	139,940	3.4%
Workers Compensation	377,256	361,129	417,708	417,708	427,008	9,300	2.2%
Training	64,292	99,358	317,350	223,300	371,250	53,900	17.0%
Other	494,385	514,046	637,384	600,371	680,521	43,137	6.8%
Subtotal Salaries and Benefits	29,966,692	30,641,642	33,836,572	33,727,890	35,049,194	1,212,622	3.6%
Utilities	2,515,024	2,504,057	2,656,950	2,851,400	3,360,200	703,250	26.5%
Biosolids	1,055,800	1,248,141	1,450,000	1,377,800	1,588,000	138,000	9.5%
Supplies	1,710,078	2,177,299	2,314,610	2,226,419	2,398,540	83,930	3.6%
Chemicals	2,483,194	2,715,699	4,011,360	3,905,958	6,176,712	2,165,352	54.0%
Repair & Maintenance	3,490,397	3,553,463	3,830,498	3,266,292	4,279,871	449,373	11.7%
Other	1,541,441	2,235,024	2,522,860	2,117,035	2,518,360	(4,500)	-0.2%
Subtotal Other Operating	12,795,934	14,433,683	16,786,278	15,744,904	20,321,683	3,535,405	21.1%
Total Operating Expenditures	\$ 42,762,626	\$ 45,075,325	\$ 50,622,850	\$ 49,472,794	\$ 55,370,877	\$ 4,748,027	9.4%

Salaries and Benefits

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

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

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

Other Operating Expenditures

Other Operating expenses are budgeted, in total, to increase \$3,535,405 to the prior year budget. The major items are discussed below:

- Utilities are increasing \$703,250 or 26.5%. This reflects the across the board rate impacts being seen in utilities nationwide.
- Biosolids disposal is increasing \$138,000 or 9.5%.
- Supplies are increasing \$83,930 or 3.6%. Costs of supplies and operating parts have been impacted by recent inflationary pressures, resulting in increases in most categories across the District.
- Chemicals are budgeted to increase \$2,165,352 or 54.0%. The main increases are for Hypochlorite, Polymers and Hydrogen Peroxide. These chemicals are critical to the effective and reliable treatment of wastewater.
- Repair and Maintenance costs are increasing by \$449,373 or 11.7% compared to FY 2023. This account varies year over year depending on the anticipated need of plant and equipment maintenance, but also reflects the increase in costs of parts and materials.
- Other expenditures, which consists of rents, professional fees, permits, insurance costs and small asset purchases are budgeted to decrease \$4,500 or 0.2%.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SPECIAL PROJECT EXPENDITURES

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

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

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

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

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

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

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

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

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

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

	<i>Estimated Expenditure</i>
Supplies:	
Sodium Hypochlorite, 1-Year Contract	\$ 2,960,000
Polymer, Emulsion, 2-Year Contract with 3 Optional 1-Year Renewals	930,000
Ferrous Chloride, 1-Year Contract	750,000
Hydrogen Peroxide, 1-Year Contract	728,000
Polymer, Mannich, 2-Year Contract with 3 Optional 1-Year Renewals	250,000
Root Control	108,336
Total Supplies	\$ 5,726,336
Services:	
CalPERS Retirement	\$ 7,670,977
115 Pension Trust Contribution	6,400,000
Series 2021A - Annual Debt Service on Bonds	4,518,914
Series 2020A - Annual Debt Service on Bonds	4,498,166
CalPERS Medical	4,231,292
PG&E - Alvarado Site (\$2,500,000), Newark P.S. (\$265,000) and Irvington P.S. (\$150,000)	2,915,000
EBDA	2,004,931
Biosolids Contract	1,588,000
115 OPEB Retiree Medical Trust Contribution	900,000
Insurance (Property & Contents, Fleet, General Liability, Bonding)	874,470
OPEB Retiree Reimbursement	575,000
Gas Media, 2-Year Contract with 3 Optional 1-Year Renewals	312,712
Contractual Services for Digester Cleaning	225,000
DGS Natural Gas Service, PG&E Billed Through DGS	200,000
Newark P.S. Generator Repair	125,000
Insurance (Retro Workers' Comp)	114,950
Grit & Screening Disposal	100,000
Total Services	\$ 37,254,412
Information Systems Projects:	
HMI Upgrades Per Standards	150,000
Permit Tracking System (PTS) Replacement	100,000
Total Information Systems Projects	\$ 250,000

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FUND BALANCE



Structural Steel for the New Campus Building

Reserve/Allocation Balances	
Operating Cash Flow	\$ 27,685,439
Structural Renewal & Replacement	59,185,200
Emergency	8,750,000
Short Term Liquidity	5,000,000
Parity Debt	2,887,200
Risk Management	1,000,000
Industrial Customer Stabilization	1,400,000
EBDA Emergency	388,899
Total Restricted/Allocated Balances	\$ 106,296,738

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

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

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

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

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

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

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

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

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

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CAPITAL IMPROVEMENT PLAN



New Standby Power Building

Capital Improvement Plan

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

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

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

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

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

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

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

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

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

UNION SANITARY DISTRICT CIP FY 24 to FY 43 - 20 YEAR FORECAST SUMMARY (in millions)														
Project Name	% Fund 80	% Fund 90	Rank	Total Project Cost	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29 to FY 33	FY 34 to FY 38	FY 39 to FY 43	Total
Switchboard 3 and MCC 25 Replacement	100%	0%	2	2,690	105	851	1,734	-	-	-	-	-	-	2,585
Thickeners 1 and 2 Rehabilitation	100%	0%	2	-	-	-	221	1,783	764	-	-	-	-	2,768
Thickeners 3 and 4 Rehabilitation	100%	0%	3	-	-	-	-	-	-	-	-	3,708	-	3,708
WAS Thickeners	100%	0%	1	22,442	1,312	250	6,315	8,250	6,315	-	-	-	-	21,130
				\$ 501,448	\$ 97,753	\$ 50,832	\$ 104,327	\$ 143,426	\$ 104,745	\$ 99,065	\$ 119,845	\$ 158,315	\$ 355,310	\$ 1,135,863

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

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

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

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

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

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

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

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

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ABOUT USD



Pouring Concrete for the New Campus Building

About USD

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

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

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

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

The Communities We Serve

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

The City of Fremont

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

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

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

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

The City of Newark

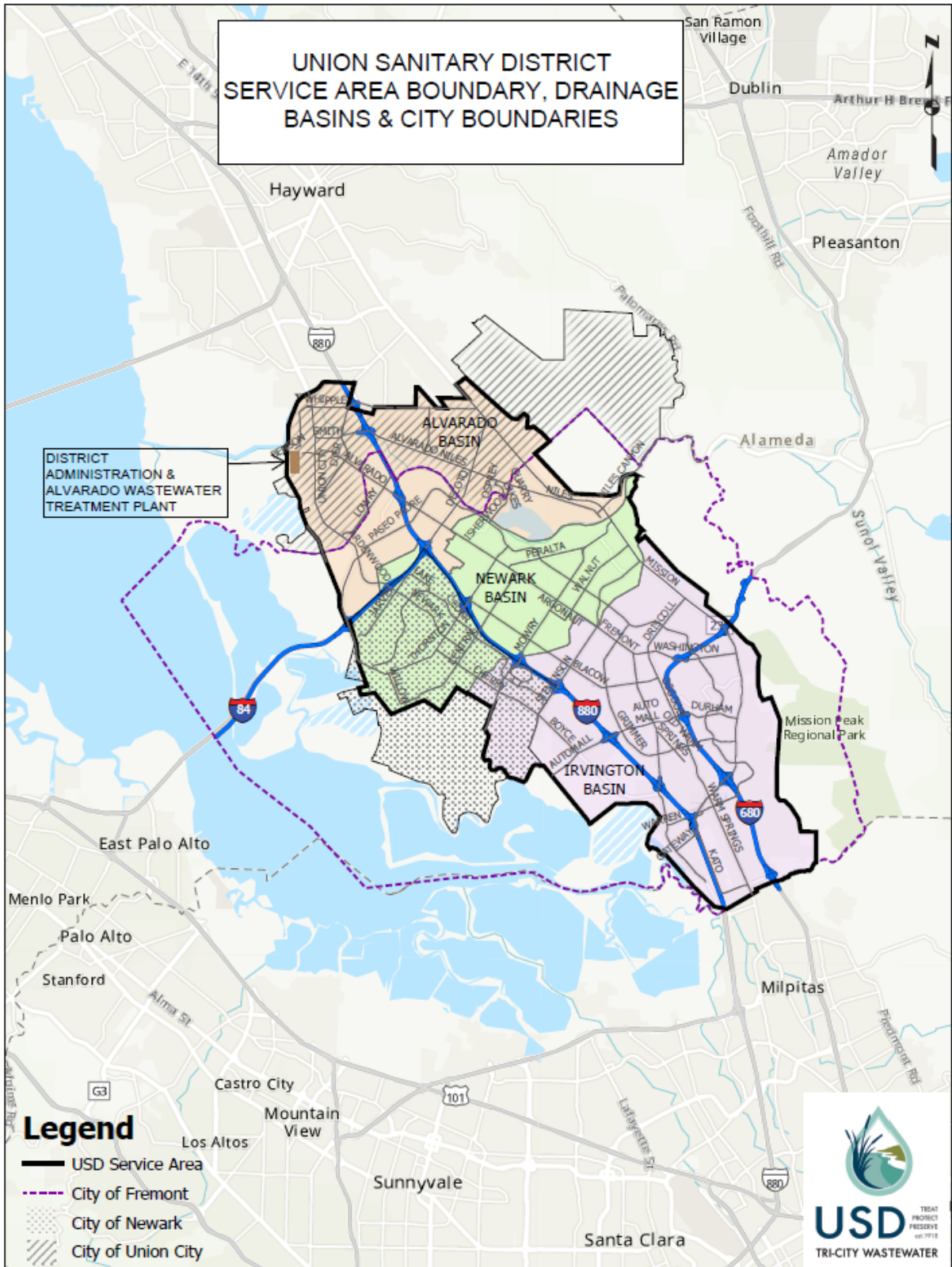
Newark has an area of 14 square miles, and a population of approximately 48,000. Newark was incorporated in 1955 and is located 35 miles south of San Francisco and next to many high-tech hubs, including easy access to highways 880, 580, 680, and the Dumbarton Corridor. This makes Newark an ideal location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

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

The City of Union City

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

SERVICE AREA MAP



BUDGET DOCUMENT & PROCESS



ETSU Aeration Basin Construction

BUDGET PROCESS

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

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

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

Key budget dates are shown below:

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

BUDGET REPORTING

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

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

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

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

FINANCIAL STATEMENT REPORTING

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

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OTHER INFORMATION

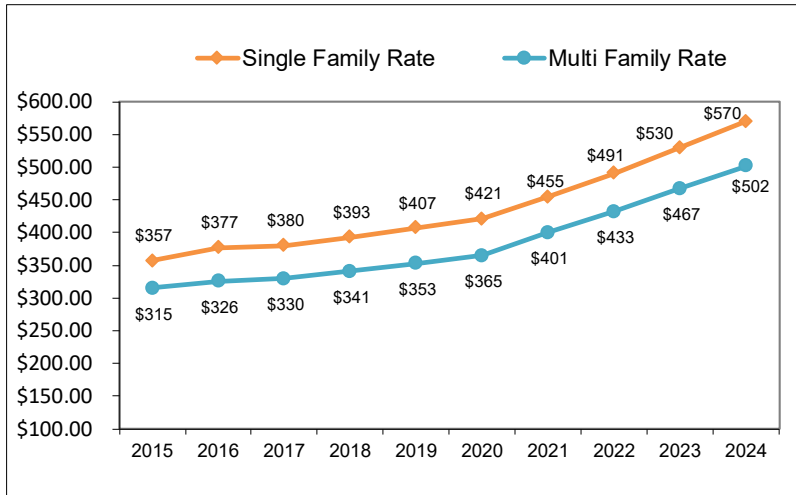


New Standby Power Building

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

Sewer Service Charge Rates

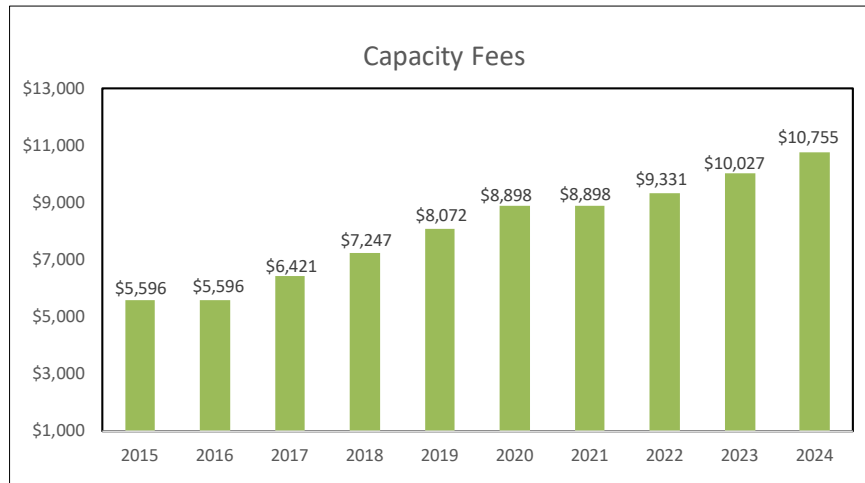
	Single Family Rate	Multi - Family Rate	Single Family Rate Percentage Change
FY 2024	\$569.97	\$502.28	7.5%
FY 2023	530.21	467.24	8.0%
FY 2022	490.93	432.63	8.0%
FY 2021	454.57	400.58	7.9%
FY 2020	421.37	365.32	3.5%
FY 2019	407.12	352.97	1.0%
FY 2018	393.35	341.03	3.5%
FY 2017	380.05	329.50	0.8%
FY 2016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



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

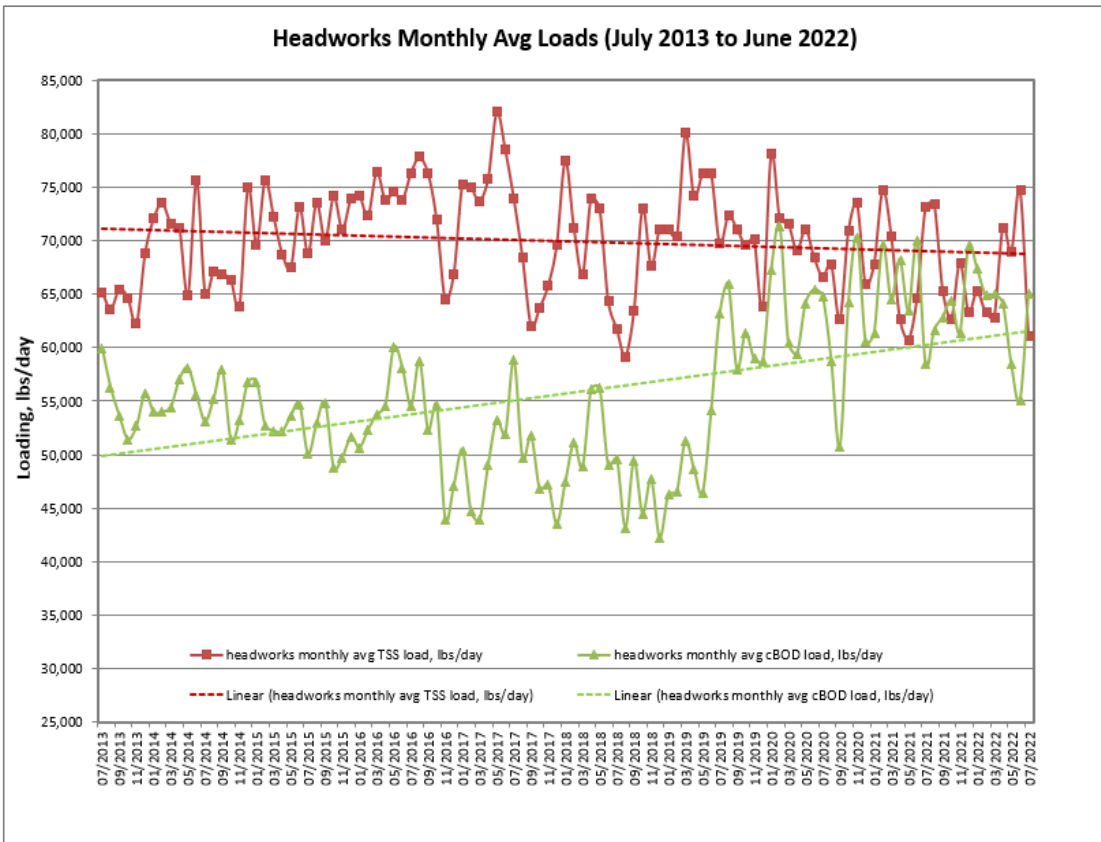
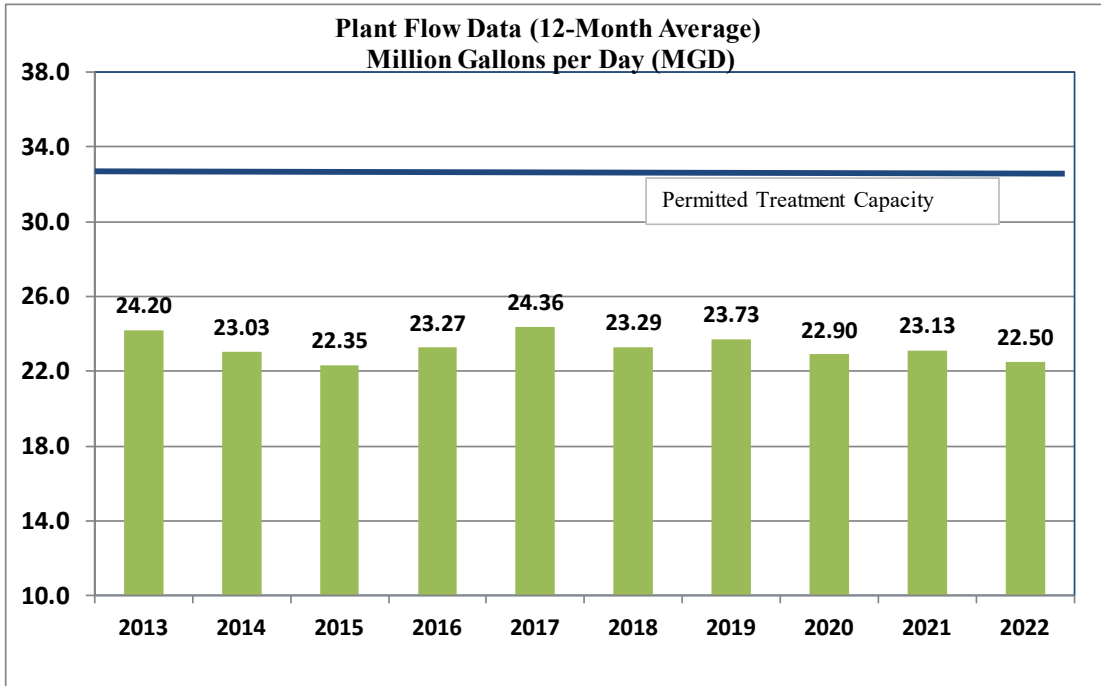
Capacity Fee Rates

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



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

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



Source: USD Treatment and Disposal Work Group

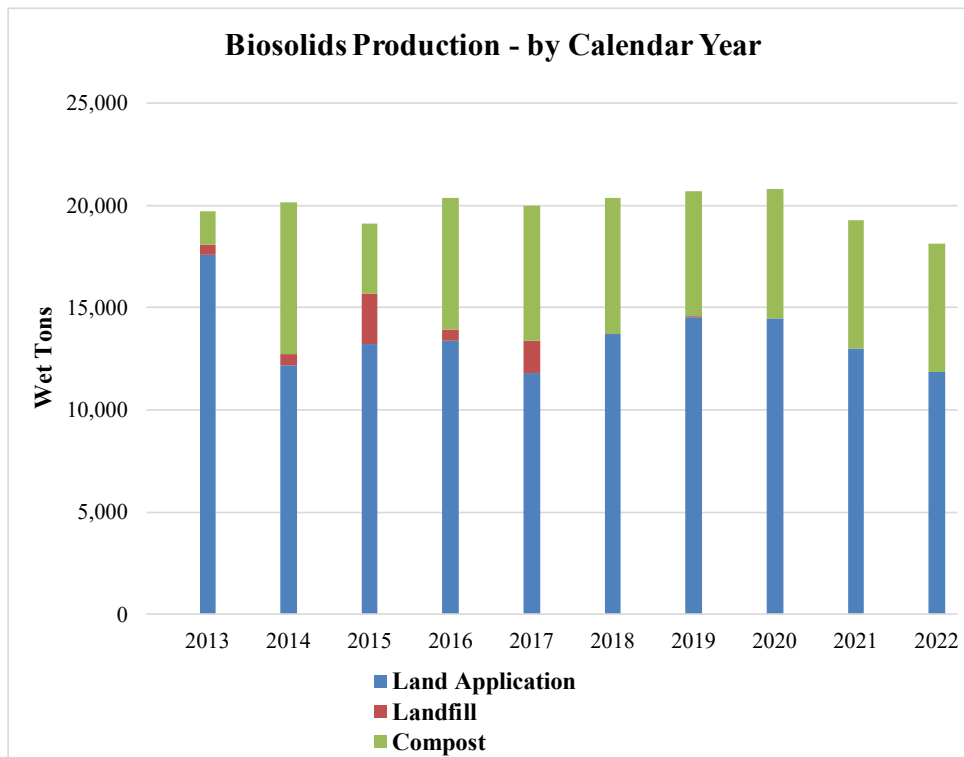
UNION SANITARY DISTRICT

Operating Indicators - Biosolids
Last Ten Calendar Years

Function/Program

Biosolids

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



UNION SANITARY DISTRICT

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

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

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

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

Rate Payer	2021-22			Rate Payer	2020-21		
	Total Annual Billing	Rank	% of Total Annual Billings		Total Annual Billing	Rank	% of Total Annual Billings
Tesla	\$ 1,446,020	1	1.96%	Tesla	\$1,176,212	1	1.59%
Lam Research	300,980	2	0.41%	Mission Linen Supply	243,523	2	0.33%
Western Digital	257,391	3	0.35%	Western Digital	224,028	3	0.30%
Washington Hospital	204,834	4	0.28%	Washington Hospital	213,400	4	0.29%
Boehringer Ingeheim	183,299	5	0.25%	Ranch 99/Warm Springs Shopping Center	213,196	5	0.29%
Mission Linen Supply	182,382	6	0.25%	Union Square Shopping Center	212,278	6	0.29%
Safety-Kleen	176,505	7	0.24%	Lam Research	204,684	7	0.28%
US Pipe	168,193	8	0.23%	US Pipe	194,164	8	0.26%
Archstone Center Apartments	151,118	9	0.20%	Ranch 99/Newark	181,779	9	0.25%
Union Square Shopping Center	142,673	10	0.19%	Boehringer Ingeheim	168,826	10	0.23%
Total annual billing largest ten:	<u>\$3,213,396</u>		<u>4.35%</u>	Total annual billing largest ten:	<u>\$3,032,089</u>		<u>4.11%</u>
Total ALL annual billings	<u>\$73,822,317</u>			Total ALL annual billings	<u>\$62,142,806</u>		

Rate Payer	2019-20			Rate Payer	2018-19		
	Total Annual Billing	Rank	% of Total Annual Billings		Total Annual Billing	Rank	% of Total Annual Billings
Tesla	\$1,381,023	1	2.22%	Tesla	\$1,228,862	1	2.04%
Washington Hospital	314,394	2	0.51%	Washington Hospital	221,799	2	0.37%
US Pipe	244,663	3	0.39%	US Pipe	216,296	3	0.36%
Western Digital	187,814	4	0.30%	Western Digital	174,219	4	0.29%
Ranch 99/Warm Springs Shopping Center	161,740	5	0.26%	Ranch 99/Warm Springs Shopping Center	157,421	5	0.26%
Union Square Shopping Center/ Market Place	161,271	6	0.26%	Ranch 99/Newark	152,401	6	0.25%
Lam Research	160,087	7	0.26%	Marriott Hotel	141,572	7	0.24%
Ranch 99/Newark	148,835	8	0.24%	Union Square Shopping Center	138,482	8	0.23%
Marriott Hotel	133,716	9	0.22%	Lam Research	125,330	9	0.21%
Sterling Foods	127,508	10	0.21%	Gateway Plaza Shopping Center	125,202	10	0.21%
Total annual billing largest ten:	<u>\$3,021,050</u>		<u>4.86%</u>	Total annual billing largest ten:	<u>\$2,681,584</u>		<u>4.45%</u>
Total ALL annual billings	<u>\$60,216,149</u>			Total ALL annual billings	<u>\$57,330,651</u>		

Rate Payer	2017-18			Rate Payer	2016-17		
	Total Annual Billing	Rank	% of Total Annual Billings		Total Annual Billing	Rank	% of Total Annual Billings
Tesla	\$817,848	1	1.51%	Tesla	\$1,141,868	1	2.18%
Western Digital	141,806	2	0.26%	Washington Hospital	206,132	2	0.39%
Solar City	172,276	3	0.32%	Western Digital	176,435	3	0.34%
US Pipe	135,774	4	0.25%	Ranch 99/Warm Springs Shopping Center	161,772	4	0.31%
Seagate Magnetics	156,718	5	0.29%	Marriott Hotel	142,229	5	0.27%
Lam Research	122,934	6	0.23%	Ranch 99/Newark	133,807	6	0.26%
Washington Hospital	173,057	7	0.32%	US Pipe	130,685	7	0.25%
Kaiser Hospital	106,337	8	0.20%	Kaiser Hospital	125,907	8	0.24%
Boehringer Ingeheim	87,678	9	0.16%	Gateway Plaza	124,269	9	0.24%
Seagate Technology #3	69,384	10	0.13%	Pacific Commons (Area 4-Asian Pearl, Kinders)	119,920	10	0.23%
Total annual billing largest ten:	<u>\$1,983,813</u>		<u>3.66%</u>	Total annual billing largest ten:	<u>\$2,463,022</u>		<u>4.70%</u>
Total ALL annual billings	<u>\$54,260,096</u>			Total ALL annual billings	<u>\$52,384,709</u>		

UNION SANITARY DISTRICT

Miscellaneous Statistics
As of June 30, 2022

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

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APPENDIX



Easterly View from USD – San Francisco Bay and Estuary



Principal Officials

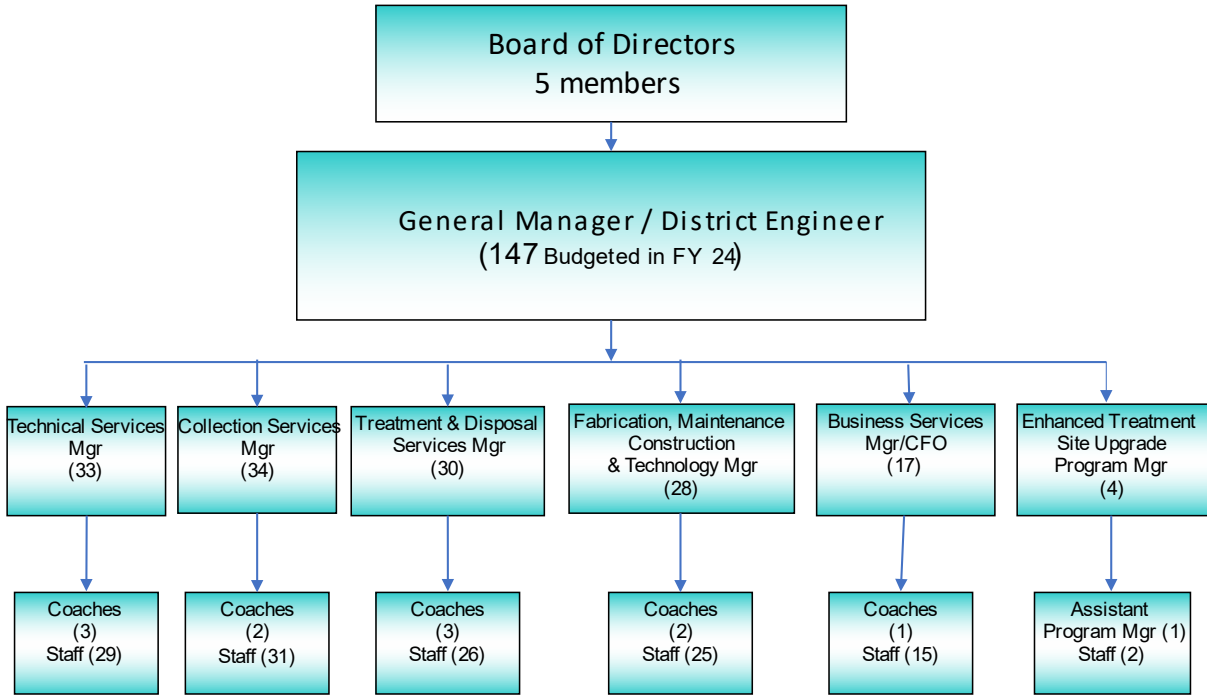
Board Member	Position	City Represented	Year Elected	Term Expires
Manny Fernandez	President	Union City, Ward 1	2011	2024
Jennifer Toy	Vice President	Fremont, Ward 3	1998	2026
Tom Handley	Secretary	Fremont, Ward 3	2007	2026
Pat Kite	Director	Newark, Ward 2	1991	2024
Anjali Lathi	Director	Fremont, Ward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

Board positions effective 05/09/23

Staff

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

Karen W. Murphy - General Counsel





VISION/MISSION STATEMENT

April 10, 2017

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

How we continue to accomplish our Vision:

Commitment to safety:

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

Responsibility:

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

Collect, treat, and recover/reuse wastewater:

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

Human health and environmental stewardship

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



VISION/MISSION STATEMENT April 10, 2017

We benefit our stakeholders by:

Community

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

Customer

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

Employees

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

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

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

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

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

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

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

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

Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	10-Year Total	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	20-Year Total	
90		2		Stevenson Blvd. Lift Station	3,000	0	100	200	1,350	1,350							3,000											3,000	
80		3		Transport System Misc. Projects					250	250	250	250	250	250	250	250	2,000	250	250	250	250	250	250	250	250	250	250	4,500	
Total for TRANSPORT SYSTEM					19,870	2,415	3,611	9,516	5,378	10,826	9,476	2,428	10,052	10,052	350	1,140	62,829	1,430	5,556	8,622	10,659	27,609	18,569	14,011	28,357	30,391	250	208,283	
Total Priority 1 Transport System					4,056	1,601	2,355	100	0	0	0	0	0	0	0	0	0	2,455	0	0	0	0	0	0	0	0	0	0	2,455
Total Priority 2 Transport System					15,814	814	1,256	9,416	5,128	10,576	9,226	2,178	9,802	9,802	0	0	0	57,384	0	0	3,066	9,407	21,951	1,536	0	9,148	11,182	0	113,674
Total Priority 3 Transport System					0	0	0	0	250	250	250	250	250	350	1,140	0	2,990	1,430	5,556	5,556	1,252	5,658	17,033	14,011	19,209	19,209	250	92,154	
Total Fund 80 - Transport System					9,585	1,819	2,841	4,247	2,053	4,863	4,863	1,339	5,151	5,151	300	695	0	31,503	840	2,903	2,903	751	3,404	15,547	13,268	20,441	21,458	250	113,268
Total Fund 90 - Transport System					10,285	596	770	5,269	3,325	5,963	4,613	1,089	4,901	4,901	50	445	0	31,326	590	2,653	5,719	9,908	24,205	3,022	743	7,916	8,933	0	95,015
Fund	%	Rank	Status	Project Name	Total Project Budget	Spent in Prior Years	FY 24	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	FY 33	10-Year Total	FY 34	FY 35	FY 36	FY 37	FY 38	FY 39	FY 40	FY 41	FY 42	FY 43	20-Year Total	
TREATMENT PLANT																													
80	50	2	Constr	Alvarado Influent PS Improvements	5,474	5,214	260										260												260
90	50	2	Constr	Alvarado Influent PS Improvements	5,474	5,214	260										260												260
80		2	Design	Alvarado Influent Valve Box Gate Valves 1-2	550	0	50	500									550												550
80	50	2		Centrifuge Replacement					583	1,325	5,171	2,585					9,664											9,664	
90	50	2		Centrifuge Replacement					583	1,325	5,171	2,585					9,664											9,664	
80		2		Centrifuge System Equipment Replacement					927	1,263	7,666	4,472					14,328											14,328	
80	50	1		Cogen Engine No. 1 60K Block Replacement				400								525	925									675		1,600	
90	50	1		Cogen Engine No. 1 60K Block Replacement				400								525	925								675		1,600		
80	50	1	Constr	Cogen Engine No. 2 60K Block Replacement	375	0	375						475				850					625						1,475	
90	50	1	Constr	Cogen Engine No. 2 60K Block Replacement	375	0	375						475				850					625						1,475	
80	50	2		Cogen Retrofit										271	1,230		1,501											1,501	
90	50	2		Cogen Retrofit										271	1,230		1,501											1,501	
80		2		Control Box No. 1 Improvements						622	4,425	1,896					6,943											6,943	
80		2		Degritter Building Roof (Seismic) Replacement													0			741	4,112	1,761						6,614	
80	50	2		Degritting at Headworks and Improvements											499	1,375	1,874	4,907	8,439	8,438								23,658	
90	50	2		Degritting at Headworks and Improvements											499	1,375	1,874	4,907	8,439	8,438								23,658	
80		3		Diffuser Replacement													0	504	781	807								2,092	
90		3		Digester Additional Capacity													0											0	
80		2		Digester No. 1 Insp & Rehab					358	1,998	1,332						3,688					732	2,996	2,996				10,412	

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

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

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

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

