WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER AUTHORITY

WRCRWA BOARD OF DIRECTORS

Agenda Item 4.A.

April 17, 2025

Approved by the
WRCRWA Board of Directors
April 17, 2025

Jayne Hansen

Jayne Hansen
WRCRWA Board Secretary

TO THE BOARD OF DIRECTORS:

Fauzia Rizvi, Chair
Tracey LaBonte, Vice Chair
Anthony Herda, Secretary-Treasurer
Jim Steiner
Greg Bowen

FROM: Gary Miller, Administrator

CONSIDER APPROVAL OF FISCAL YEAR 2025-2026 BUDGET, ADOPTION OF RESOLUTION 25-001 ESTABLISHING RATES TO BE CHARGED FOR CONVEYANCE, TREATMENT AND DISPOSAL OF WASTEWATER, AND GIVE THE ADMINISTRATOR AUTHORITY TO OPEN ANNUAL PURCHASE ORDERS

RECOMMENDATION:

The WRCRWA Executive Committee and the Administrator recommend that the Board of Directors:

1. Adopt the proposed Fiscal Year 2025-2026 Budget (Operating, Debt Service, and Capital), along with new rates consistent with the budget figures;
2. Adopt Resolution 25-001, Establishing Rates to be Charged for Conveyance, Treatment, and Disposal of Wastewater;
3. Direct Member Agencies to present this Fiscal Year 2025-2026 Budget to their governing boards for approval; and
4. Authorize the Administrator to open annual purchase orders, totaling $3,060,000, for Fiscal Year 2025-2026 that exceed the $60,000 Board approved purchase authorization limit of the Administrator.

BUDGET IMPACT:

Upon budget approval by the Board of Directors and subsequent approval by each

Member Agency, the Fiscal Year 2025-2026 Budget will become the official Western Riverside County Regional Wastewater Authority (WRCRWA) Budget, which includes individual Member Agency contributions and establishes fixed and variable rates.

EXECUTIVE SUMMARY:

In the proposed Fiscal Year 2025-2026 Budget, Member Agency contributions will increase in aggregate by $3,989,442, or 16.57%. The Operating Budget will increase by $278,450, or 2.16%; the Debt Service Budget remains the same, and the Capital Budget will increase by $3,710,992 or 55.42%, which includes $3,522,500 unspent capital budget to be carried forward from Fiscal Year 2024-2025 to Fiscal Year 2025-2026.

DETAIL:

See attached presentation for further detail relating to the Operating, Debt Service, and Capital budgets.

Gary Miller, Administrator

Attachment(s):

1. Member Contribution Summary Year-to-Year Comparison
2. Capacity, Rates, and Contributions - Fixed and Variable
3. Rate Calculation
4. Operations Fund Budget Year-to-Year Comparison
5. Fixed and Variable Cost Allocation
6. Debt Service Expenditures
7. Capital Budget
8. Capital Improvement Project Descriptions
9. Asset Replacement Schedule
10. Annual Purchase Orders over $60,000
11. Resolution 25-001
12. Fiscal Year 2025-2026 Budget Presentation

RESOLUTION 25-001

RESOLUTION OF THE BOARD OF DIRECTORS OF THE WESTERN RIVERSIDE COUNTY REGIONAL WASTEWATER AUTHORITY ESTABLISHING RATES TO BE CHARGED FOR THE CONVEYANCE, TREATMENT AND DISPOSAL OF WASTEWATER

WHEREAS, the WESTERN RIVERSIDE COUNTY REGIONAL WASTEWATER AUTHORITY ("the AUTHORITY") owns and operates a wastewater conveyance, treatment and disposal system ("system"); and

WHEREAS, the agencies having the right to discharge to the AUTHORITY's system are the AUTHORITY's Member Agencies: The Home Gardens Sanitary District, the Jurupa Community Services District, the City of Norco, the Western Municipal Water District of Riverside County, and the City of Corona (Corona); and

WHEREAS, in order to defray the costs of operating and maintaining its system, the AUTHORITY must establish, from time-to-time, rates to be charged to its Member Agencies for the operation and maintenance of the system.

NOW, THEREFORE, the Board of Directors of the WESTERN RIVERSIDE COUNTY REGIONAL WASTEWATER AUTHORITY hereby resolve as follows:

Section 1. Rate Components The rate to be charged to use the system shall consist of the following components:

a. A fixed rate component, which shall defray system operation and maintenance costs and expenses which do not vary significantly in proportion to the wastewater flow delivered to the system. The fixed rate component consists of the following sub-components:

- Treatment
- Conveyance
- Administration

b. A variable rate component, which shall defray the system operation and maintenance costs and expenses which vary generally in proportion to the wastewater flow delivered to the system. The variable rate component shall consist of the following sub-components:

- Treatment
- Conveyance

c. An Excess Capacity Surcharge Rate Component, which shall include the above Fixed and Variable Rate Components together with Annualized Capital Costs. This Excess Capacity Surcharge Rate Component shall be charged to a member agency for discharges in excess of that agency's owned capacity. The Surcharge Rate Component shall consist of the following sub-components:

- Treatment
- Conveyance

Section 2. Fixed Rate There is hereby established, and each Member Agency shall pay, whether or not any wastewater is delivered to the system, the total of the following fixed rate sub-components, per million gallons per day ("MGD") of capacities owned by the Member Agency:

Fixed Rates:	**MGD per month**
Treatment	$31,505
Conveyance	2,080
Subtotal	**$33,585**
Administration	11,342
Grand Total Fixed	**$44,927**

Section 3. Variable Rate In addition to paying the total fixed rate provided for above, each Member Agency shall pay for

each million gallons of wastewater actually delivered by the Member Agency to the system the following variable rate sub-components:

Variable Rates:	**MG Discharged**
Treatment	$1,687
Conveyance	108
Grand Total Variable	**$1,795**

Section 4. Allocation of Capacity for Fixed Rate Calculation Purposes Fixed rates due hereunder shall be calculated on the basis of the following allocation of capacity in the system:

a. To calculate the fixed rate for the Treatment and Administration sub-components, the following capacities are hereby allocated to the Member Agencies using 14.0 MGD existing capacity:

Agency	**MGD**
HGSD	0.75
JCSD	6.00
NORCO	2.70
WMWD	1.93
Corona	2.62
Total	14.00

b. To calculate the fixed rate Conveyance sub-component, the following capacities are hereby allocated to the Member Agencies using 8.0 MGD existing capacity:

Agency	MGD
HGSD	0.75
JCSD	0.00
NORCO	2.50
WMWD	2.13
Corona	2.62
Total	8.00

Section 5. Excess Capacity Management Service Rates

Excess capacity rate methodology was adopted by the Board on March 27, 2013 along with the Excess Capacity Management Service that allows Members in need of capacity to temporarily use capacity excess to the needs of another Member. The rate consists of the above Fixed and Variable rate components together with a Capital/Carry component calculated as a return on investment for capital and ongoing carrying costs paid by Members for ownership of capacity excess to their current needs. The Variable component is invoiced at the time capacity is used. The Fixed component and Capital/Carry component are billed separately throughout the year.

a. Excess Capacity Treatment Surcharge Rate

	MG Discharged
Fixed	$1,409
Variable	1,687
Cap/Carry	829
Total Surcharge	$3,925

b. Excess Capacity Conveyance Surcharge Rate

	MG Discharged
Fixed	$ 68
Variable	108
Capital/Carry Costs	198
Total Surcharge	$374

Section 6. Payment Due Date Invoices for Fixed Rates shall be paid monthly, in advance. The Fixed Rate invoice will be billed by approximately the 21st of the prior month and shall be considered delinquent if not paid by the 15th of the month for which the charge is being paid.

The variable charge shall be paid monthly, in arrears. The variable charge will be based on actual flows and will be billed on approximately the 21st of the month following the actual flows. Payment will be considered delinquent if not paid by the 15th of the following month.

Invoices for Excess Capacity Surcharge Rates shall be paid upon receipt, based on capacity used that exceeds capacity owned. The Excess Capacity Surcharge Rate Invoice will be based on actual flows and will be billed throughout the year based on Excess Capacity use activity. Payment will be considered delinquent if not paid by the 15th of the following month.

Section 7. Effective Date The rates established by this Resolution shall be effective on July 1, 2025. Resolution 24-001 is hereby superseded.

ADOPTED this 17th day of April 2025.

WESTERN RIVERSIDE COUNTY REGIONAL
WASTEWATER AUTHORITY

FAUZIA RIZVI
Chair

I hereby certify that the foregoing is a full, true, and correct copy of Resolution 25-001 adopted by the Board of Directors of WESTERN RIVERSIDE COUNTY REGIONAL WASTEWATER AUTHORITY at a meeting held April 17, 2025.

ANTHONY HERDA
Secretary-Treasurer

WRCRWA Budget Schedule
Fiscal Year 2025-2026
Member Contribution Summary Year-to-Year Comparison

Proposed Fiscal Year 2025-2026 Budget						
Expenditure Category	**Corona**	**HGSD**	**JCSD**	**Norco**	**Western**	**Total**
Operations:						
Treatment System	$ 1,667,901	$ 646,867	$ 5,310,410	$ 2,067,623	$ 1,209,982	$ 10,902,783
Conveyance System	108,788	41,997	-	129,466	83,933	364,184
General & Administration	356,606	102,082	816,655	367,494	262,690	1,905,527
Total Operating Contributions	$ 2,133,295	$ 790,946	$ 6,127,065	$ 2,564,583	$ 1,556,605	$ 13,172,494
Debt Service:						
SRF Loan	$ 1,903,189	$ 70,887	$ 2,064,704	$ 408,275	$ 39,481	$ 4,486,536
Capital:						
Pay-go Capital Improvement Projects [1]	$ 1,723,758	$ 493,437	$ 3,637,081	$ 1,766,091	$ 1,280,183	$ 8,900,550
Asset Replacement Reserve Funding	330,307	94,553	497,397	331,765	251,958	1,505,980
Total Capital Contributions	$ 2,054,065	$ 587,990	$ 4,134,478	$ 2,097,856	$ 1,532,141	$ 10,406,530
Total Member Contributions	$ 6,090,549	$ 1,449,823	$ 12,326,247	$ 5,070,714	$ 3,128,227	$ 28,065,560

Adopted Fiscal Year 2024-2025 Budget						
Expenditure Category	**Corona**	**HGSD**	**JCSD**	**Norco**	**Western**	**Total**
Operations:						
Treatment System	$ 1,844,323	$ 621,984	$ 5,181,896	$ 2,059,340	$ 1,124,510	$ 10,832,053
Conveyance System	140,520	45,549	-	147,116	96,939	430,124
General & Administration	305,392	87,421	699,372	314,717	224,965	1,631,867
Total Operating Contributions	$ 2,290,235	$ 754,954	$ 5,881,268	$ 2,521,173	$ 1,446,414	$ 12,894,044
Debt Service:						
SRF Loan	$ 1,903,189	$ 70,887	$ 2,064,704	$ 408,275	$ 39,481	$ 4,486,536
Capital:						
Pay-go Capital Improvement Projects	$ 1,020,851	$ 292,224	$ 2,177,352	$ 1,046,699	$ 757,374	$ 5,294,500
Asset Replacement Reserve Funding	306,878	87,847	463,992	308,296	234,025	1,401,038
Total Capital Contributions	$ 1,327,729	$ 380,071	$ 2,641,344	$ 1,354,995	$ 991,399	$ 6,695,538
Total Member Contributions	$ 5,521,153	$ 1,205,912	$ 10,587,316	$ 4,284,443	$ 2,477,294	$ 24,076,118
Total Member Contribution YTY Change	$ 569,396	$ 243,911	$ 1,738,931	$ 786,271	$ 650,933	$ 3,989,442

[1] $3.5M is carried over from FY24-25 Budget

WRCRWA Budget Schedule
Fiscal Year 2025-2026
Capacity, Rates, and Contributions
Fixed and Variable

	Treatment System		Conveyance System		General & Administrative		
Fixed Rate per MGD:	**$31,505**		**$2,080**		**$11,342**		
	Capacity	Contribution	Capacity	Contribution	Capacity	Contribution	Total by Agency
Corona	2.62	$ 990,525	2.62	$ 65,387	2.62	$ 356,606	$ 1,412,518
HGSD	0.75	$ 283,547	0.75	$ 18,718	0.75	$ 102,082	$ 404,347
JCSD	6.00	$ 2,268,377	-	$ -	6.00	$ 816,655	$ 3,085,032
Norco	2.70	$ 1,020,770	2.50	$ 62,392	2.70	$ 367,494	$ 1,450,656
WMWD	1.93	$ 729,661	2.13	$ 53,158	1.93	$ 262,690	$ 1,045,509
Total	14.00	$ 5,292,880	8.00	$ 199,655	14.00	$ 1,905,527	$ 7,398,062
Variable Rate per MGD:	**$1,687**		**$108**		**$0**		
	Est. Flows	Rate	Est. Flows	Rate	Est. Flows	Rate	Total by Agency
Corona	1.10	$ 677,376	1.10	$ 43,401	-	$ -	$ 720,777
HGSD	0.59	$ 363,320	0.59	$ 23,279	-	$ -	$ 386,599
JCSD	4.94	$ 3,042,033	-	$ -	-	$ -	$ 3,042,033
Norco	1.70	$ 1,046,853	1.70	$ 67,074	-	$ -	$ 1,113,927
WMWD	0.78	$ 480,321	0.78	$ 30,775	-	$ -	$ 511,096
Total	9.11	$ 5,609,903	4.17	$ 164,529	-	$ -	$ 5,774,432
Grand Totals		$ 10,902,783		$ 364,184		$ 1,905,527	$ 13,172,494

WRCRWA Budget Schedule
Fiscal Year 2025-2026
Year-to-Year Comparison

	2024-2025 Budget	2025-2026 Budget	Change Amount	Change % Change
Treatment System				
Treatment Plant				
Labor Costs	3,422,603	3,678,080	255,477	7.46%
Outside Services (Laboratory)	189,857	197,451	7,594	4.00%
Facility Maintenance	1,557,268	1,828,065	270,797	17.39%
Vehicles/Equipment Rental	171,130	183,904	12,774	7.46%
Utilities	2,462,936	2,000,000	(462,936)	-18.80%
Chemicals	2,110,145	2,094,551	(15,594)	-0.74%
Solids Disposal/Sludge	456,799	425,071	(31,728)	-6.95%
Permits and Fees	154,302	160,474	6,172	4.00%
Facility Maintenance - Bldg & Yard	71,702	92,306	20,604	28.74%
General Supplies	172,448	176,249	3,801	2.20%
Total Treatment Plant	10,769,190	10,836,151	66,961	0.62%
Pre-treatment				
Labor Costs	54,282	57,686	3,404	6.27%
Vehicle/Equipment Rental	2,714	2,884	170	6.26%
Laboratory - Quality Testing	4,867	5,062	195	4.01%
Supplies	1,000	1,000	-	0.00%
Total Pre-treatment	62,863	66,632	3,769	6.00%
Total Treatment System	10,832,053	10,902,783	70,730	0.65%
Conveyance System				
Labor Costs	211,702	145,870	(65,832)	-31.10%
Facility Maintenance	79,564	82,747	3,183	4.00%
Vehicle/Equipment Rental	10,585	7,294	(3,291)	-31.09%
Utilities	113,156	113,156	-	0.00%
Facility Maintenance - Bldg & Yard	5,117	5,117	-	0.00%
Supplies	10,000	10,000	-	0.00%
Total Conveyance System	430,124	364,184	(65,940)	-15.33%
General and Administration				
Labor	531,578	640,423	108,845	20.48%
Outside Services (Consulting)	531,123	568,736	37,613	7.08%
Insurance Expense	389,000	512,935	123,935	31.86%
Audit Expense	21,500	21,500	-	0.00%
Mercury Monitoring - SARDA	8,653	9,000	347	4.01%
Basin Monitoring Program	30,234	30,234	-	0.00%
Vehicle/Equipment Rental	26,579	32,021	5,442	20.47%
Bank Charges	5,540	5,540	-	0.00%
Permits and Fees	18,500	18,500	-	0.00%
General Supplies	11,960	12,438	478	4.00%
Legal Costs - General	57,200	54,200	(3,000)	-5.24%
Total General and Administration	1,631,867	1,905,527	273,660	16.77%
Total Operating Expenses	12,894,044	13,172,494	278,450	2.16%

WRCRWA Budget Schedule
Fiscal Year 2025-2026
Debt Service Expenditures

SRF Loan	Due Date	Member Agency	Allocation Percentage	Beginning Balance 7-01-2025	Debt Service Interest	Debt Service Principal	Debt Service Payment	Outstanding Balance 6-30-2026
Plant Expansion	12/31/2025	Corona	42.420%	$ 21,741,141	$ 413,082	$ 1,490,107	$ 1,903,189	$ 20,251,034
		HGSD	1.580%	809,784	15,386	55,501	70,887	754,283
		JCSD	46.020%	23,586,216	448,138	1,616,566	2,064,704	21,969,650
		Norco	9.100%	4,663,941	88,615	319,660	408,275	4,344,281
		Western	0.880%	451,018	8,569	30,912	39,481	420,106
			100.000%	$ 51,252,100	$ 973,790	$ 3,512,746	$ 4,486,536	$ 47,739,354

SRF Loan maturity date: 12/31/2036

WRCRWA Budget Schedule
Fiscal Year 2025-2026
Capital Budget

Description	Agency Amounts to be Contributed					
Pay-go Capital Improvement Projects	**Total**	**Corona**	**HGSD**	**JCSD**	**Norco**	**Western**
Treatment System						
Solar Dryer Discharge Conveyor	1,292,000	241,785	69,212	553,713	249,175	178,115
Blower Building Air Intake/Ventilation Modifications	371,000	69,429	19,874	159,000	71,551	51,146
Blower Replacement	1,200,000	224,568	64,284	514,284	231,432	165,432
Medium Voltage Switchgear	180,000	33,685	9,643	77,142	34,715	24,815
Dewatering Replacement	3,328,000	622,802	178,281	1,426,281	641,838	458,798
Generator Replacement	1,370,000	256,382	73,391	587,141	264,218	188,868
Primary Clarifier No. 2 Rehabilitation	500,000	93,570	26,785	214,285	96,430	68,930
InforFSM Implementation - WRCRWA's cost participation	245,550	45,952	13,154	105,235	47,357	33,852
Total Treatment System	8,486,550	1,588,173	454,624	3,637,081	1,636,716	1,169,956
Conveyance System						
South Regional Pump Station (SRPS) Emergency Pump	214,000	70,085	20,063	-	66,875	56,977
WRCRWA Conveyance System Condition Assessment	200,000	65,500	18,750	-	62,500	53,250
Total Conveyance System	414,000	135,585	38,813	-	129,375	110,227
Total Pay-go Capital Improvement Project Contribution	8,900,550	1,723,758	493,437	3,637,081	1,766,091	1,280,183
Asset Replacement Reserve Funding	**Total**	**Corona**	**HGSD**	**JCSD**	**Norco**	**WMWD**
Treatment System	1,160,597	217,194	62,173	497,397	223,833	160,000
Conveyance System	345,383	113,113	32,380	-	107,932	91,958
Total Asset Replacement Reserve Contribution	1,505,980	330,307	94,553	497,397	331,765	251,958
Total Capital Contributions	**$ 10,406,530**	**$ 2,054,065**	**$ 587,990**	**$ 4,134,478**	**$ 2,097,856**	**$ 1,532,141**

WRCRWA Pay-go Capital Improvement Projects Fiscal Year 2025-2026

Introduction

The WRCRWA Administrator is recommending approval and implementation of the following pay-go capital improvement projects for Fiscal Year 2025-2026.

1. Solar Dryer Discharge Conveyor
2. Blower Building Air Intake/Ventilation Modifications
3. Blower Replacement
4. Medium Voltage Switchgear
5. Dewatering Replacement
6. Generator Replacement
7. Primary Clarifier No. 2 Rehabilitation
8. InforFSM Implementation – WRCRWA's Cost Participation
9. SRPS Emergency Pump
10. WRCRWA Conveyance System Condition Assessment

The capital projects are critical to the successful operation of the WRCRWA Wastewater Treatment Plant. The projects are described on the following pages.

Capital Project No. 1: Solar Dryer Discharge Conveyor

Allocation	*Treatment*
Estimated Total Cost:	*$1,792,000*
Budget Carryover from Fiscal Year 2024-2025	*$1,292,000*
Additional Budget Need in Fiscal Year 2025-2026	*$0*

Summary

The Solar Dryer Conveyor project consists of the replacement of four conveyors at the "dry end" of the Solar Dryer and modifying the discharge chute. These conveyors transfer the processed sludge from the solar drier into the sludge loadout building where they are discharged into semi-trailers for offsite disposal.

Justification

This system is a single point of potential failure and needs to be fortified. During times of wetter solids, the current system conveys the wet solids to the end without much drying.

Background

The project consists of replacement of four conveyors at the "dry end" of the Solar Dryer. The conveyors on the "dry end" of the dryer that feed the truck loadout facility were sized for dryer solids. The solar dryer feed conveyors have sufficient capacity (provided the sludge is fairly dry, >50%). However, if dewatering equipment produces wetter solids, if a solar dryer bay is offline, or in periods of colder weather, wet solids could be conveyed from the wet end to the dry end without much drying occurring. Due to this potential, these conveyors should be replaced to allow for similar capacities as the "wet" feed conveyors. Also, the discharge chute at the end of the solar dryer needs to be modified to prevent solids bridging at times of the year.

It is recommended that with the replacement of the conveyance system, the chute should be modified to be wider and reduce the potential for "bridging" of solids above the conveyor. Additionally, it is recommended to have spare motors and parts to keep this system running.

Schedule

Projected completion date for this project is by the end of Fiscal Year 2025-2026. Design contract has been awarded, and design is currently at the 90% phase. Completion of design is anticipated soon and will then be posted on Planet Bids for solicitation of bids for construction. Once bids are received, we will be back before the Board for contract award.

Capital Project No. 2: Blower Building Air Intake/Ventilation Modifications

Allocation:	*Treatment*
Estimated Total Cost:	*$371,000*
Budget Carryover from Fiscal Year 2024-2025	*$371,000*
Additional Budget Need in Fiscal Year 2025-2026	*$0*

Summary

Improve air exchanges in the blower building for blower operations.

Justification

The current blower building has limited ventilation filtration and no temperature controls. During summer months blowers fail due to increase heat. To mitigate the heat, doors and windows are opened (to reduce heat), but dust is then introduced resulting in bearing failures. Both heat and dust are to be addressed through this project.

Background

The blower building currently has no forced ventilation. As such, air is pulled into the room via the suction of the blowers that are in operation. The blower room has louvers with filters, but during warmer temperature periods, the room gets too hot for blower operation. To resolve this issue, the garage door is opened to cool the room. Opening this door, however, causes dust to enter the room which is causing operation issues with the blowers. It is recommended that a climate control system be installed to keep temperatures and dust in an acceptable range for blower operation.

This can be accomplished with a twofold approach as follows:

1. A combined intake plenum system should be incorporated to provide direct air feed to each of the blowers. This will be done by adding a plenum intake structure to the north of the building, including inlet filters. All blower intake air will pass through this structure and then ducting will be provided into the room to direct pre-filtered air to each of the blowers.

2. With the intake blower air separated from the room ventilation, either a cooling system using air conditioning or evaporative cooling can be used for the air in the room.

Thus, the blowers will have sufficient filtered air flow to each unit and the room will be cooled sufficiently to keep the electronics and motors cool enough to allow for normal and consistent operations.

Schedule

This project is planned to kick off in May 2025. It will run in concert with the Blower Replacement project as they are interconnected.

Capital Project No. 3: Blower Replacement

Allocation:	*Treatment*
Estimated Total Cost:	*$1,500,000*
Budget Carryover from Fiscal Year 2024-2025	*$1,200,000*
Additional Budget Need in Fiscal Year 2025-2026	*$0*

Summary

Replace three turbo blowers associated with the activated sludge process.

Justification

Over the past few years, WRCRWA has experienced failures of the existing HIS Turbo Blowers. During the most recent failure we were made aware that HSI equipment is no longer supported, and replacement parts are non-existent.

Background

WRCRWA is currently equipped with five turbo blowers that support the aerobic biological process. These five blowers vary in age and manufacturer. In 2012 (or so), WRCRWA supplemented its aeration capacity within the oxidation ditch by adding diffuser grids and three turbo blowers. Those original three turbo blowers were manufactured by Houston Service Industries (HSI). HSI was subsequently purchased by Atlas Copco. During the 2017 plant expansion and addition of another biological reactor, two more turbo blowers were installed. These two “newer” turbo blowers were manufactured by APG-Neuros.

Over the past few years, WRCRWA has experienced failures of the HSI blowers (typically related to the air bearings and dust). In 2023, HSI blower #2 experienced an electrical component failure and subsequent mechanical failure. Through this failure and attempted repair, Atlas Copco has notified WRCRWA that the HSI product line is no longer supported and that replacement parts are non-existent. Atlas Copco manufactures a similar product and as they replace existing HSI blowers, those used units and being scavenged for parts to make repairs on other HSI blowers.

WRCRWA is now faced with needing to replace the three HSI blowers (before failure) to ensure availability of adequate air in support of the biological processes. It is in WRCRWA’s best interest to investigate all blower technologies to ensure integration with the remaining two APG-Neuros blowers along with efficiency and ultimate biological air demands.

Schedule

This project has kicked off and design proposals have been received from two firms. Staff are currently evaluating the proposals and will be seeking contract award shortly. This project may span two fiscal years depending on equipment considerations and the availability of replacement equipment.

Capital Project No. 4: Medium Voltage Switchgear

Allocation:	*Treatment*
Estimated Total Cost:	*$3,138,000*
Budget Carryover from Fiscal Year 2024-2025	*$180,000*
Additional Budget Need in Fiscal Year 2025-2026	*$0*

Summary

Replace the medium voltage switchgear and place it in the existing electrical building.

Justification

The existing outdoor medium voltage switchgear is 26 years old and is becoming obsolete. It is due for replacement and should be relocated inside the newly built Electrical Building to provide a better environment conducive to such equipment.

Background

Due to the age of the gear and it being installed outdoors, it is recommended that this equipment be replaced to ensure it can be maintained and operated properly in the foreseeable future. A new electrical building has been constructed and the low voltage switchgear was moved into this building. There is room for a new medium voltage switchgear to be installed in this building also.

Depending on the outcome of the blower investigation, dewatering replacement study and low voltage load study, the medium voltage system might be impacted. The request would be for $190,000 during Fiscal Year 2024-2025 with replacement being in Fiscal Year 2026-2027. Design is anticipated to be complete during Fiscal Year 2025-2026.

Schedule

This project is planned to kick off in July 2025.

Capital Project No. 5: Dewatering Equipment Replacement

Allocation:	*Treatment*
Estimated Total Cost:	*$4,378,000*
Budget Carryover from Fiscal Year 2024-2025	*$265,500*
Additional Budget Need in Fiscal Year 2025-2026	*$3,062,500*

Summary

Replace the three existing Andritz centrifuges.

Justification

Dewatering sludge is a critical component of biosolids management. Over the past few years, the Centrifuges at WRCRWA have experienced numerous failures resulting in decreased operating cycles. Limited dewatering capacity jeopardizes the treatment plant's ability to maintain regulatory compliance.

Background

During the later stages of the plant expansion design, it was surfaced that the original centrifuges were outdated and no longer serviceable. The design team sought replacement equipment that would meet the needs of the facility while also fitting within the existing footprint of the original equipment. Andritz centrifuges were selected and installed during the plant expansion.

While the existing Andritz centrifuges have met the needs of the facility, they are being pushed to their limits. The centrifuges are being ran at the far end of their speed rating to achieve decent % solids concentration while maintaining desirable centrate quality. The units are being stressed resulting in reduced component life and increasingly sever failures.

With the units suffering a higher rate of mechanical breakdown, very rarely do we have three units available. This has resulted in increased run times for the other two units available. An investigation of best available technologies and based on current WRCRWA sludge conditions, staff recommend replacing the existing centrifuges to gain greater operational redundancy and productivity.

During Fiscal Year 2025-2026, the ask is for $3,062,500.

Schedule

This project has kicked off and design proposals have been received from two firms. Staff are currently evaluating the proposals and will be seeking contract award shortly. This project may span two fiscal years depending on equipment considerations and the availability of replacement equipment.

Capital Project No. 6: Emergency Generator Replacement

Allocation:	*Treatment*
Estimated Total Cost:	*$2,740,000*
Budget Carryover from Fiscal Year 2024-2025	*$0*
New Budget Need in Fiscal Year 2025-2026	*$1,370,000*

Summary

Replace the existing treatment plant emergency generator.

Justification

Generator age as well as various component failures over the 26-year period help drive the need for asset replacement consideration.

Background

WRCRWA is equipped with an emergency stand-by generator to provide power to the plant processes should the need arise. The existing Caterpillar brand stand-by plant generator houses a TIER 2 engine that is 26 years old. PSP, weather, accidental and routine power outages have been a recurring theme at the WRCRWA plant. This uncertainty coupled with asset depreciation accompanies a level of risk for our stand-by power reliance. Generator age as well as various component failures over the 26-year period help drive the need for asset replacement consideration. From a risk and resilience perspective, this unit presents a higher potential for failure. Additionally, the emissions rating is very low when compared to the SCAQMD best available technology today (TIER 4F engines).

During Fiscal Year 2025-2026, the ask is for $1,370,000.

Schedule

This project is planned to kick off in July 2025. In recent discussions with Caterpillar, replacement generators have a lead-time greater than 52 weeks. Our intention is to perform a load study to understand potential future energy demands (associated with dewatering equipment and upsizing of blowers) then solicit proposals for the generator replacement. This project will span two fiscal years based on equipment availability.

Capital Project No. 7: Primary Clarifier No. 2 Rehabilitation

Allocation:	*Treatment*
Estimated Total Cost:	*$500,000*
Budget Carryover from Fiscal Year 2024-2025	*$0*
New Budget Need in Fiscal Year 2025-2026	*$500,000*

Summary

Rehabilitate Primary Clarifier No. 2

Justification

Primary clarifier removes the lighter materials that float to the top such as fats, oil and grease (FOG) as well as heavier materials that sink to the bottom (sludge). FOG and the sludge collected from the primary clarifier are conveyed to the anaerobic digesters for additional stabilization. A primary clarifier is considered the most energy efficient way to remove the biochemical oxygen demand of the wastewater, lessening the energy load on downstream processes such as bioreactors and blower systems. Maintaining the primary clarifiers in well-functioning order would reduce the overall energy footprint of the plant as well as increase the likelihood of maintaining NPDES and AQMD permit compliance.

Background

Primary Clarifier No. 2 is one of two 95-feet diameter primary clarifiers that were constructed in 2017 and has been in service for 8 years. During a routine preventative maintenance inspection after cleaning, the staff discovered a substantial level of corrosion on the sludge collection arms, scum baffle and center supporting ring. A consultant was hired to document the existing condition and to validate staff observations. Staff, along with the consultant, recommend rehabilitating Primary Clarifier No. 2 which consists of repairing/replacing corroded structural members of the sludge collection system, center ring, and scum baffle along with sandblasting and recoating all steel elements.

During the Fiscal Year 2025-2026, the ask is for $500,000.

Schedule

The project is planned to kick off in July 2025.

Capital Project No. 8: InforFSM Implementation – WRCRWA's Cost Participation

Allocation:	*Treatment*
Estimated Total Cost:	*$245,550*
Budget Carryover from Fiscal Year 2024-2025	*$0*
New Budget Need in Fiscal Year 2025-2026	*$245,550*

Summary

WRCRWA's allocated share of costs related to the implementation of the financial software Infor Cloud Suite Financials (InforFSM).

Justification

In Fiscal Year 2024, Western Municipal Water District (WMWD), WRCRWA's administrator, successfully implemented the new financial software, InforFSM, in anticipation of the discontinuation of support for the existing Lawson Version 10 system by its developer in early 2026. Since WRCRWA also uses the same financial software, it is necessary for WRCRWA to share in the implementation cost alongside WMWD.

Background

In June 2019, Western Municipal Water District (WMWD) began the search for a replacement for its financial software due to the upcoming discontinuation of support for Lawson Version 10 after April 2026, along with the cessation of support from Microsoft Server in October 2023. In August 2022, WMWD selected Infor CloudSuite Financials, a subscription-based, multi-tenant software platform, as the new system. The implementation of InforFSM commenced in late 2022 and successfully went live on April 29, 2024.

Since WRCRWA also uses the same financial software platform, it is necessary for WRCRWA to participate in the implementation costs alongside WMWD. The total cost of the InforFSM project implementation is $3,277,045, with WRCRWA's share amounting to $245,550, or 7.49%, based on the ratio of WRCRWA's Fiscal Year 2023–2024 operating expense budget compared to that of WMWD.

Schedule

The project has been completed. WMWD is seeking reimbursement from WRCRWA in Fiscal Year 2025-2026.

Capital Project No. 9: South Regional Pump Station (SRPS) Emergency Pump

Allocation:	*Conveyance*
Estimated Total Cost:	*$1,000,000*
Budget Carryover from Fiscal Year 2024-2025	*$214,000*
Additional Budget Need in Fiscal Year 2025-2026	*$0*

Summary

Design, purchase, and installation of a standalone diesel bypass pump at the SRPS.

Justification

Currently there is no back up power at the SRPS. By design, in the event of a power outage, the wet well fills and if power is not restored quickly, raw sewage overflows into the Inland Empire Brine Line (Brine Line). Numerous improvements and upgrades have been implemented at the SRPS and WRCRWA Treatment Plant since 2016 to increase the overall system redundancy and reliability. The goal of the improvements/upgrades are to prevent future sewage overflow into the Brine Line located adjacent to the SRPS.

Initially, installation of a standalone diesel bypass pump was considered as it would provide additional redundancy and reliability to the sewage collection system. The pump would allow WRCRWA to maintain independent hydraulic control in the event of mechanical and/or electrical equipment failures at SRPS allowing the SRPS to continue to pump flows to the WRCRWA Treatment Plant rather than discharging them to the Brine Line. However, due to design parameters and FEMA special requirements, the available bypass pump was found to be inadequate, leading to the selection of a permanent generator as the most cost-effective alternative solution.

Background

The SRPS serves the City of Riverside, Home Gardens, City of Norco, and City of Corona by pumping wastewater from these cities just over three miles to the WRCRWA Treatment Plant. Average daily pumping flow is 3 MGD.

Orange County Sanitation recently objected to un-planned and unnoticed sewage flows in the Brine Line and added a requirement to the Santa Ana Watershed Project Authority's (SAWPA) discharge permit that required development of a plan to incorporate robust redundancies to prevent discharges to the Brine Line.

The WRCRWA Treatment Plant was designed to rely on the Brine Line and ultimately Orange County Sanitation District as a back-up if there were problems that WRCRWA's system could not handle. This option provides for redundancy against failure due to electrical issues.

However, after exhaustive analyses, the preliminary design revealed that the previously selected emergency bypass diesel engine pump did not meet the project's design parameters. As a

result, a permanent generator has been chosen as the most feasible and cost-effective alternative.

Schedule

A grant was awarded on February 3, 2023, from the Hazard Mitigation Grant Program in the amount of up to $938,349 which was initially estimated to cover up to 75 percent of the design, purchase, and installation costs for an emergency bypass diesel engine pump.

A grant application for additional funds to support the emergency generator is in progress. Additionally, staff are in the process of securing an extension and seeking additional grant funding to address the increasing cost of construction, equipment and material.

The expected completion date for the project was originally in Fall of 2025. However, due to the change of the scope of work, the expected completion date is currently unknown.

Capital Project No. 10: WRCRWA Conveyance System Condition Assessment

Allocation:	*Conveyance*
Estimated Total Cost:	*$200,000*
Budget Carryover from Fiscal Year 2024-2025	*$0*
New Budget Need in Fiscal Year 2025-2026	*$200,000*

Summary

Western Riverside County Regional Wastewater Authority (WRCRWA), under the administrative authority of Western Municipal Water District (WMWD), is requesting a field condition assessment of the WRCRWA wastewater treatment sewer conveyance system pipeline segments and manholes from the Arizona flume to the South Regional Pump Station notwithstanding any related siphons or force mains.

Justification

To protect system operations, maintain regulatory compliance related to the Sewer System Management Plan, and to ensure that WRCRWA is capable of forecasting asset failures as well as establishing appropriate asset replacement reserves, WRCRWA will evaluate, and as well as grade, based on field evaluation, the existing asset condition for 6.8 miles of shared sewage trunk line segments and manholes.

Background

As part of the linear asset management program, condition assessments are required to meet compliance requirements, understand current needs and prepare for future costs. This conveyance system has never had formal condition assessment. This bassline information will provide member agencies with a clear understanding of the maintenance system.

Schedule

This project is scheduled for public bidding in June with work to commence in July of 2025. Anticipated completion is 6 months contingent on associated bids.

WRCRWA
Asset Replacement Funding Need Analysis for FY 2025-2026 Budget

Conveyance System											
	2024-2025	**2025-2026**	**2026-2027**	**2027-2028**	**2028-2029**	**2029-2030**	**2030-2031**	**2031-2032**	**2032-2033**	**2033-2034**	**2034-2035**	**10 Yr Total**
Reserve Bal as of 7/1/24	1,203,501	524,077	413,681	573,419	356,356	515,965	666,523	989,868	1,258,223	1,117,198	1,442,764	
Funding Need	318,384	**345,383**	345,383	345,383	345,383	345,383	345,383	345,383	345,383	345,383	345,383	3,453,830
Spending	(997,808)	(455,779)	(185,645)	(562,446)	(185,774)	(194,825)	(22,038)	(77,028)	(486,408)	(19,817)	(788,067)	(2,977,827)
Projected Reserve	$ 524,077	$ 413,681	$ 573,419	$ 356,356	$ 515,965	$ 666,523	$ 989,868	$ 1,258,223	$ 1,117,198	$ 1,442,764	$ 1,000,080	
Treatment System												
	2024-2025	**2025-2026**	**2026-2027**	**2027-2028**	**2028-2029**	**2029-2030**	**2030-2031**	**2031-2032**	**2032-2033**	**2033-2034**	**2034-2035**	**10 Yr Total**
Reserve Bal as of 7/1/24	2,990,511	3,604,683	4,071,128	4,042,142	4,156,195	4,867,095	4,716,959	4,657,146	225,538	1,205,766	2,287,284	
Funding Need	1,082,654	**1,160,597**	1,160,597	1,160,597	1,160,597	1,160,597	1,160,597	1,160,597	1,160,597	1,160,597	1,160,597	11,605,970
Spending	(468,482)	(694,152)	(1,189,583)	(1,046,544)	(449,697)	(1,310,733)	(1,220,410)	(5,592,205)	(180,369)	(79,079)	(1,947,199)	(13,709,971)
Projected Reserve	$ 3,604,683	$ 4,071,128	$ 4,042,142	$ 4,156,195	$ 4,867,095	$ 4,716,959	$ 4,657,146	$ 225,538	$ 1,205,766	$ 2,287,284	$ 1,500,682	
Projected Cash Availability	**$ 4,128,760**	**$ 4,484,809**	**$ 4,615,561**	**$ 4,512,551**	**$ 5,383,060**	**$ 5,383,482**	**$ 5,647,014**	**$ 1,483,761**	**$ 2,322,964**	**$ 3,730,048**	**$ 2,500,762**	

WRCRWA ASSET REPLACEMENT SCHEDULE

Conveyance System

ASSET ID	DESCRIPTION	ASSET CLASS	INSTALLED DATE	ESTIMATED REPLACEMENT YEAR	ESTIMATED ASSET REPLACEMENT COST
SLS9000000006	Rolling Entry Gates	MISC. ASSETS	1995	2026	$ 103,970.92
SLS9000000010	Piping Pit / Electrical Conduit	MISC. ASSETS	1996	2026	77,243.79
xxx9000000021	Wet Well Exhaust Fan	FAN	1995	2026	6,044.71
xxx9000000028	Interior Lighting	MISC. ASSETS	1996	2026	38,416.53
xxx9000000030	Exterior Lighting	MISC. ASSETS	1996	2026	68,037.01
xxx9000000034	Corrosion Control Chemical Tank	FLUID STORAGE UNIT	1996	2026	162,066.49
SLS9000000007	Fencing	MISC. ASSETS	1995	2027	101,292.06
SLS9000000013	Wet Well Equalization Slide Gate	MISC. ASSETS	1995	2027	79,827.09
xxx9000000031	Eye Wash and Shower Station	MISC. ASSETS	2019	2027	4,525.55
SLS9000000003	North Wet Well Slide Gate	MISC. ASSETS	1995	2028	92,767.05
SLS9000000005	South Wet Well Slide Gate	MISC. ASSETS	1995	2028	92,767.05
SLS9000000014	Pavement	MISC. ASSETS	1995	2028	174,465.21
SVALVE0000000196	12" Isolation Valve - P1	SEWER VALVE	1995	2028	33,866.29
SVALVE0000000197	12" Isolation Valve - P2	SEWER VALVE	1995	2028	33,866.29
SVALVE0000000198	12" Isolation Valve - P3	SEWER VALVE	1995	2028	33,866.29
SVALVE0000000199	12" Isolation Valve - P4	SEWER VALVE	1995	2028	33,866.29
xxx9000000035	Bridge Crane Electrical & Mechanical	CRANE	2018	2028	66,981.93
SHMOTOR0000000220	Submersible P3 (Motor)	MOTOR	2019	2029	46,443.46
SHMOTOR0000000221	Submersible P4 (Motor)	MOTOR	2019	2029	46,443.46
SPUMP0000000223	Submersible P3 (Pump)	SEWER PUMP	2019	2029	46,443.46
SPUMP0000000224	Submersible P4 (Pump)	SEWER PUMP	2019	2029	46,443.46
SHMOTOR0000000218	Submersible P1 (Motor)	MOTOR	2020	2030	46,661.82
SHMOTOR0000000219	Submersible P2 (Motor)	MOTOR	2020	2030	46,661.82
SPUMP0000000221	Submersible P1 (Pump)	SEWER PUMP	2020	2030	46,661.82
SPUMP0000000222	Submersible P2 (Pump)	SEWER PUMP	2020	2030	46,661.82
xxx9000000037	North Wet Well Monitoring System	INSTRUMENT	2020	2030	8,177.25
FACHVAC0000000072	HVAC System	HVAC	2016	2031	22,038.46
xxx9000000032	Distribution Panel	SGMCC	1995	2032	49,655.14
xxx9000000033	Distribution Panel LP1	SGMCC	1995	2032	18,965.89
xxx9000000038	South Wet Well Monitoring System	INSTRUMENT	2022	2032	8,406.63

WRCRWA ASSET REPLACEMENT SCHEDULE
Conveyance System

ASSET ID	DESCRIPTION	ASSET CLASS	INSTALLED DATE	ESTIMATED REPLACEMENT YEAR	ESTIMATED ASSET REPLACEMENT COST
SLS50000	Wet Well Recoating	STRUCTURE	1998	2033	486,408.37
SHCRANE0000000006	Bridge Crane	CRANE	2023	2034	19,817.38
xxx9000000036	Motor Control Center (MCC)	SGMCC	1995	2035	652,373.59
xxx9000000039	Transformer	CONTROL PANEL	1995	2035	135,693.27
					$ 2,977,827.62

WRCRWA ASSET REPLACEMENT SCHEDULE

Treatment System

ASSET ID	DESCRIPTION	ASSET CLASS	ESTIMATED REPLACEMENT YEAR	REPLACEMENT COST
SHFAN0000000071	Odor Control System Scrubber 4 Exhaust Fan	ODOR REDUCTION UNIT	2026	$ 14,256.37
SHFAN0000000072	Odor Control System Scrubber 5 Exhaust Fan	ODOR REDUCTION UNIT	2026	14,256.37
SHFAN0000000073	Odor Control System Scrubber 6 Exhaust Fan	ODOR REDUCTION UNIT	2026	14,256.37
SHGEARDRV0000000017	Sludge Screw Conveyor Gear Box 5	GEAR DRIVE UNIT	2026	65,454.81
SHGEARDRV0000000018	Sludge Screw Conveyor Gear Box 6	GEAR DRIVE UNIT	2026	65,454.81
SPUMP0000000013	Submersible Storm Drain P2	SEWER PUMP	2026	33,408.96
SPUMP0000000025	Progressive Cavity Drum Thickener Sludge	MISC. ASSETS	2026	31,383.53
SPUMP0000000143	Submersible Scum P2	SEWER PUMP	2026	20,920.09
SPUMP0000000144	Submersible Chopper Centrate P1	SEWER PUMP	2026	31,907.51
SPUMP0000000145	Submersible Chopper Centrate P2	SEWER PUMP	2026	31,907.51
SPUMP0000000183	Progressive Cavity Flash Mix Polymer Chem Feed P2	CHEMICAL FEED	2026	34,472.57
SPUMP0000000188	Submersible Drain Pump Station P1	SEWER PUMP	2026	46,373.28
SPUMP0000000189	Submersible Drain Pump Station P2	SEWER PUMP	2026	46,373.28
SPUMP0000000190	Submersible Drain Pump Station P3	SEWER PUMP	2026	46,373.28
SPUMP0000000191	Thickener Poly Chem Feed	CHEMICAL FEED	2026	31,383.53
SPUMP0000000192	Progressive Cavity Poly Recirc P1	CHEMICAL FEED	2026	31,383.53
SPUMP0000000193	Progressive Cavity Chem Feed Poly Recirc P2	CHEMICAL FEED	2026	31,383.53
WPUMP0000000118	Peristaltic P1	SEWER PUMP	2026	33,408.96
WPUMP0000000119	Peristaltic P2	SEWER PUMP	2026	34,896.94
WPUMP0000000120	Peristaltic P3	SEWER PUMP	2026	34,896.94
SGRINDER0000000010	Grinder - No. 2 West Muffin Monster	GRINDER	2027	19,035.61
SHBLWR0000000001	Blower Turbine No. 1	BLOWER	2027	257,553.18
SHBLWR0000000002	Blower Turbine No. 2	BLOWER	2027	257,553.18
SHGEARDRV0000000019	Sludge Screw Conveyor Gear Box 7	GEAR DRIVE UNIT	2027	67,635.77
SHGEARDRV0000000020	Sludge Screw Conveyor Gear Box 8	GEAR DRIVE UNIT	2027	67,635.77
SHGEARDRV0000000021	Sludge Screw Conveyor Gear Box 9	GEAR DRIVE UNIT	2027	67,635.77
SHINSTRUM0000000003	Conductivity Analyzer	INSTRUMENT	2027	15,843.51
SHINSTRUM0000000013	ProSonic Meter Digester No. 1 (solids)	DIGESTER GAS SYSTEM	2027	27,015.85
SHINSTRUM0000000014	ProSonic Meter Digester No. 2 (solids)	DIGESTER GAS SYSTEM	2027	27,015.85
SHINSTRUM0000000021	Conductivity Analyzer	INSTRUMENT	2027	33,458.54
SHINSTRUM0000000024	pH Analyzer	INSTRUMENT	2027	33,458.54
SHINSTRUM0000000114	Influent pH & Conductivity Meter	METER	2027	33,458.54

WRCRWA ASSET REPLACEMENT SCHEDULE

Treatment System

ASSET ID	DESCRIPTION	ASSET CLASS	ESTIMATED REPLACEMENT YEAR	REPLACEMENT COST
SHINSTRUM0000000115	Bench Service in Lab Meter Testing Equip	INSTRUMENT	2027	31,920.98
SHINSTRUM0000000116	Bench Service in Lab Meter Testing Equip	INSTRUMENT	2027	31,920.98
SMIXER0000000001	Anoxic East Mixer No. 1 (Wall Mount)	MIXER	2027	16,003.33
SMIXER0000000002	Anoxic West Mixer No. 2 (Wall Mount)	MIXER	2027	16,003.33
SPUMP0000000004	Submersible Scum P2	SEWER PUMP	2027	17,498.05
SPUMP0000000142	Submersible Scum P1	SEWER PUMP	2027	20,969.67
SPUMP0000000202	Centri Chlorine Contact Basin Ch. 4 Influent Sample	INSTRUMENT	2027	22,642.53
SPUMP0000000204	Centri Chlorine Contact Basin Effluent Sample	INSTRUMENT	2027	20,336.19
WPUMP0000000121	Peristaltic P4	SEWER PUMP	2027	34,996.10
WPUMP0000000122	Peristaltic P5	SEWER PUMP	2027	34,996.10
WPUMP0000000123	Peristaltic P6	SEWER PUMP	2027	34,996.10
PLGRITCHMB0000000001	Grit Chamber	GRIT CHAMBER	2028	337,084.09
SHGEARDRV0000000014	Sludge Screw Conveyor Gear Box 2	GEAR DRIVE UNIT	2028	67,840.69
SHMOTOR0000000002	Surface Aerator Motor	MOTOR	2028	249,119.69
SPUMP0000000018	Progressive Cavity Centrifuge 1 Feed	CENTRIFUGE	2028	19,138.07
SPUMP0000000096	Peristaltic Alum Chem Feed P1	CHEMICAL FEED	2028	32,715.37
SPUMP0000000097	Peristaltic Alum Chem Feed P2	CHEMICAL FEED	2028	32,715.37
SPUMP0000000168	Peristaltic Sodium Hypochlorite Chem Feed P1	CHEMICAL FEED	2028	33,509.77
SPUMP0000000169	Peristaltic Sodium Hypochlorite Chem Feed P2	CHEMICAL FEED	2028	33,509.77
SPUMP0000000170	Peristaltic Bisulfite Chem Feed P1	CHEMICAL FEED	2028	33,509.77
SPUMP0000000171	Peristaltic Bisulfite Chem Feed P2	CHEMICAL FEED	2028	33,509.77
SPUMP0000000172	Peristaltic Bisulfite Chem Feed P3	CHEMICAL FEED	2028	33,509.77
SPUMP0000000197	Centri Chlorine Contact Basin Ch. 1 Influent Sample	INSTRUMENT	2028	23,396.98
SPUMP0000000198	Centri Chlorine Contact Basin Ch. 2 Effluent Sample	INSTRUMENT	2028	23,396.98
SPUMP0000000199	Centri Chlorine Contact Basin Ch. 2 Influent Sample	INSTRUMENT	2028	23,396.98
SPUMP0000000200	Centri Chlorine Contact Basin Ch. 3 Influent Sample	INSTRUMENT	2028	23,396.98
SPUMP0000000201	Centri Chlorine Contact Basin Ch. 3 Effluent Sample	INSTRUMENT	2028	23,396.98
SPUMP0000000203	Centri Chlorine Contact Basin Ch. 4 Effluent Sample	INSTRUMENT	2028	23,396.98
PLCONVEYOR50000	Screw Conveyor No. 1 Cake - Liner	CONVEYOR	2029	10,057.41
PLCONVEYOR50001	Screw Conveyor No. #2 Elevating - Liner	CONVEYOR	2029	19,907.79
PLCONVEYOR50002	Screw Conveyor No. #3 Elevating - Liner	CONVEYOR	2029	19,907.79
PLCONVEYOR50003	Screw Conveyor No. #4 North - Liner	CONVEYOR	2029	19,907.79

WRCRWA ASSET REPLACEMENT SCHEDULE

Treatment System

ASSET ID	DESCRIPTION	ASSET CLASS	ESTIMATED REPLACEMENT YEAR	REPLACEMENT COST
PLCONVEYOR50004	Screw Conveyor No. #5 South - Liner	CONVEYOR	2029	19,907.79
SHGEARDRV0000000013	Sludge Screw Conveyor Gear Box 1	GEAR DRIVE UNIT	2029	68,052.45
SHINSTRUM0000000004	pH & T Analyzer	INSTRUMENT	2029	14,410.12
SHINSTRUM0000000028	Nonpotable Water Analyzer	INSTRUMENT	2029	33,562.71
SHINSTRUM0000000029	Nonpotable Water Analyzer	INSTRUMENT	2029	33,562.71
SHINSTRUM0000000030	Effluent Analyzer	INSTRUMENT	2029	33,562.71
SHINSTRUM0000000106	Effluent Turbidity Meter	METER	2029	33,562.71
SHINSTRUM0000000107	Conductivity Meter	METER	2029	33,562.71
SHINSTRUM0000000108	Effluent Turbidity Meter	METER	2029	33,562.71
SHINSTRUM0000000112	Filter Turbidity Meter	METER	2029	33,562.71
SPUMP0000000195	Centri Chlorine Contact Basin Influent Sample	INSTRUMENT	2029	18,430.51
SPUMP0000000196	Centri Chlorine Contact Basin Ch. 1 Effluent Sample	INSTRUMENT	2029	24,176.57
PLCLARIF0000000012	Primary Clarifier No. 1 - (Coating ?)	CLARIFIER	2030	371,271.91
PLCLARIF0000000013	Primary Clarifier No. 2 - (Coating ?)	CLARIFIER	2030	371,271.91
SHBLWR0000000003	Blower Turbine No. 3	BLOWER	2030	245,252.69
SHGEARDRV0000000015	Sludge Screw Conveyor Gear Box 3	GEAR DRIVE UNIT	2030	68,271.26
SHINSTRUM0000000109	pH & Conductivity Meter	METER	2030	35,313.84
SHINSTRUM0000000110	pH & Conductivity Meter	METER	2030	35,313.84
SHINSTRUM0000000111	Effluent Meter	METER	2030	35,313.84
SHINSTRUM0000000113	Oxi Ditch Turbidity Meter	METER	2030	33,617.41
SPUMP0000000006	RAS P2 Pump	SEWER PUMP	2030	76,723.42
SPUMP0000000179	Polymer Centrifuge Feed P1	CHEMICAL FEED	2030	12,794.22
SPUMP0000000180	Polymer Centrifuge Feed P2	CHEMICAL FEED	2030	12,794.22
SPUMP0000000181	Polymer Centrifuge Feed P3	CHEMICAL FEED	2030	12,794.22
Not in Infor/ To Be Added	Major HMI (Cent_Blower_Waste)	CONTROL PANEL	2031	22,308.62
SHFAN0000000074	Odor Control System Foul Air Fan	ODOR REDUCTION UNIT	2031	18,548.08
SHMOTOR0000000127	Centri Chlorine Contact Basin Non Potable P3 Motor	MOTOR	2031	44,617.25
SHMOTOR0000000179	Standard Flash Mix Pump Motor	MOTOR	2031	41,111.33
SMIXER0000000003	Submersible Anoxic Basin Bioreactor No. 1 Mixer No. 1	MIXER	2031	39,358.37
SMIXER0000000004	Submersible Anoxic Basin Bioreactor No. 1 Mixer No. 2	MIXER	2031	39,358.37
SMIXER0000000005	Submersible Anoxic Basin Bioreactor No. 1 Mixer No. 3	MIXER	2031	39,358.37
SMIXER0000000006	Submersible Aerobic Basin Bioreactor No. 1 Mixer No. 1	MIXER	2031	39,358.37

WRCRWA ASSET REPLACEMENT SCHEDULE

Treatment System

ASSET ID	DESCRIPTION	ASSET CLASS	ESTIMATED REPLACEMENT YEAR	REPLACEMENT COST
SMIXER0000000007	Submersible Aerobic Basin Bioreactor No. 1 Mixer No. 2	MIXER	2031	39,358.37
SMIXER0000000008	Submersible Aerobic Basin Bioreactor No. 1 Mixer No. 3	MIXER	2031	39,358.37
SMIXER0000000009	Submersible Aerobic Basin Bioreactor No. 1 Mixer No. 4	MIXER	2031	39,358.37
SPUMP0000000140	Centri Hot Water Recirc P1	DIGESTER GAS SYSTEM	2031	22,308.62
SPUMP0000000141	Centri Hot Water Recirc P2	DIGESTER GAS SYSTEM	2031	22,308.62
SPUMP0000000146	Centri Sludge Recirc P1	SEWER PUMP	2031	12,907.27
SPUMP0000000147	Centri Sludge Recirc P2	SEWER PUMP	2031	12,907.27
SPUMP0000000155	Odor Control Scrubber Control Box Chem Feed Stage 2 Caustic S	ODOR REDUCTION UNIT	2031	22,308.62
SPUMP0000000156	Odor Control Scrubber Control Box Chem Feed Stage 3 Caustic S	ODOR REDUCTION UNIT	2031	22,308.62
SPUMP0000000159	Bio-Reactor 2 Axial Flow P1	SEWER PUMP	2031	39,358.37
SPUMP0000000160	Bio-Reactor 2 Axial Flow P2	SEWER PUMP	2031	39,358.37
SPUMP0000000161	Odor Control Scrubber Control Box Stage 1 Recirc	ODOR REDUCTION UNIT	2031	22,308.62
SPUMP0000000162	Odor Control Scrubber Control Box Stage 2 Recirc P1	ODOR REDUCTION UNIT	2031	22,308.62
SPUMP0000000163	Odor Control Scrubber Control Box Stage 2 Recirc P2	ODOR REDUCTION UNIT	2031	22,308.62
SPUMP0000000164	Odor Control Scrubber Control Box Stage 2 Recirc P3	ODOR REDUCTION UNIT	2031	22,308.62
SPUMP0000000165	Odor Control Scrubber Control Box Stage 3 Recirc P1	ODOR REDUCTION UNIT	2031	22,308.62
SPUMP0000000166	Odor Control Scrubber Control Box Stage 3 Recirc P2	ODOR REDUCTION UNIT	2031	22,308.62
SPUMP0000000205	Centri Dichlorination Contact Basin Sample	MOTOR	2031	41,111.33
SPUMP0000000206	Centri Chlorine Contact Basin Post Aeration Effluent Sample	INSTRUMENT	2031	44,617.25
SPUMP0000000208	Centri Chlorine Contact Basin Non Potable P2	WATER PUMP	2031	94,927.65
SPUMP0000000209	Centri Chlorine Contact Basin Non Potable P3	WATER PUMP	2031	94,927.65
SPUMP0000000210	Centri Chlorine Contact Basin Non Potable P4	WATER PUMP	2031	44,617.25
SPUMP0000000211	Chlorine Contact Basin Recycled Lift Pump P1	SEWER PUMP	2031	100,230.02
SPUMP0000000212	Chlorine Contact Basin Recycled Lift Pump P2	SEWER PUMP	2031	70,267.06
COMPLX50003	Gate and Fence	STRUCTURE	2032	238,656.57
Not in Infor/ To Be Added	Major HMI (Cent_Blower_Waste)	CONTROL PANEL	2032	630,470.71
PLAERATOR0000000004	Digester 1-1 Aerator	DIGESTER	2032	66,587.28
PLAERATOR0000000005	Digester 1-2 Aerator	DIGESTER	2032	66,587.28
PLAERATOR0000000006	Digester 2-3 Aerator	DIGESTER	2032	66,587.28
PLAERATOR0000000007	Digester 2-4 Aerator	DIGESTER	2032	66,587.28
SHFAN0000000028	Biofilter Foul Air Exhaust Fan	MOTOR	2032	13,024.09
SHINSTRUM0000000005	Grit Bin Analyzer	INSTRUMENT	2032	16,853.53

WRCRWA ASSET REPLACEMENT SCHEDULE

Treatment System

ASSET ID	DESCRIPTION	ASSET CLASS	ESTIMATED REPLACEMENT YEAR	REPLACEMENT COST
SHINSTRUM0000000006	Screenings Bin Analyzer	INSTRUMENT	2032	16,853.53
SHINSTRUM0000000007	Bar Screen Analyzer	INSTRUMENT	2032	16,853.53
SHINSTRUM0000000008	Endress ProSonic Meter	INSTRUMENT	2032	16,853.53
SHINSTRUM0000000009	Endress ProSonic Meter	INSTRUMENT	2032	18,664.90
SHINSTRUM0000000015	TWAS Pit Level Meter	INSTRUMENT	2032	18,664.90
SHINSTRUM0000000016	Endress Caustic Level Meter	INSTRUMENT	2032	18,664.90
SHMOTOR0000000011	Inverter Duty Secondary WAS P1 Spare Motor	MOTOR	2032	19,532.22
SHMOTOR0000000100	Biofilter Recirculation Pump Motor	SEWER PUMP	2032	31,826.79
SHMOTOR0000000124	Centri Hot Water Booster Pump Motor	DIGESTER GAS SYSTEM	2032	13,024.09
SHSGMCC0000000046	MCC 1M (Headworks)	SGMCC	2032	630,470.71
SHSGMCC0000000049	MCC 4M (Chemical Building)	SGMCC	2032	253,187.57
SHSGMCC0000000050	MCC 5M (Solids Building)	SGMCC	2032	253,187.57
SHSGMCC0000000047	MCC 2M (Oxidation Ditch)	SGMCC	2032	830,966.99
SHSGMCC0000000048	MCC 3M (Secondary Clarifier)	SGMCC	2032	830,966.99
SHSGMCC0000000080	MCC 3MA (RAS)	SGMCC	2032	830,966.99
SODORRED0000000008	Biofilter	FILTER	2032	29,109.74
SPUMP0000000007	RAS P3 Pump	SEWER PUMP	2032	76,953.29
SPUMP0000000120	Submersible Wet Well P1	SEWER PUMP	2032	48,818.13
SPUMP0000000150	Centrifugal Biofilter Irrigation Recirc Pump	SEWER PUMP	2032	30,015.43
SPUMP0000000153	Odor Control Scrubber 3 Chem Feed Stage 2 Hydrogen Peroxide	ODOR REDUCTION UNIT	2032	22,425.44
SPUMP0000000154	Odor Control Scrubber 3 Chem Feed Stage 3 Hydrogen Peroxide	ODOR REDUCTION UNIT	2032	22,425.44
SPUMP0000000157	RAS P4 Pump	SEWER PUMP	2032	18,664.90
SPUMP0000000158	RAS P5 Pump	SEWER PUMP	2032	18,664.90
SPUMP0000000167	Odor Control Scrubber 4 Chem Feed Stage 1 Sulfuric Acid	ODOR REDUCTION UNIT	2032	22,425.44
SPUMP0000000175	Submersible Solar Dryer Storm Drain P2	SEWER PUMP	2032	41,228.15
SPUMP0000000184	Super Disc Filter Backwash Pump 1	SEWER PUMP	2032	41,581.26
SPUMP0000000185	Super Disc Filter Backwash Pump 2	SEWER PUMP	2032	41,581.26
SPUMP0000000186	Super Disc Filter Backwash Pump 3	SEWER PUMP	2032	41,581.26
SPUMP0000000194	Centri Hot Water Booster Pump	DIGESTER GAS SYSTEM	2032	13,024.09
WPUMP0000000114	Vertical Turbine Non Potable Water P1	SEWER PUMP	2032	39,416.78
WPUMP0000000115	Vertical Turbine Non Potable Water P2	SEWER PUMP	2032	39,416.78
WPUMP0000000116	Vertical Turbine Non Potable Water P3	SEWER PUMP	2032	39,416.78

WRCRWA ASSET REPLACEMENT SCHEDULE

Treatment System

ASSET ID	DESCRIPTION	ASSET CLASS	ESTIMATED REPLACEMENT YEAR	REPLACEMENT COST
WPUMP0000000117	Vertical Turbine Non Potable Water P4	SEWER PUMP	2032	39,416.78
SHSTARTSEC0000000077	VFD Centrifuge 1 Feed Pump Starter Section	STARTER SECTION	2033	45,092.30
SHSTARTSEC0000000078	VFD Centrifuge 2 Feed Pump Starter Section	STARTER SECTION	2033	45,092.30
SHSTARTSEC0000000079	VFD Centrifuge 3 Feed Pump Starter Section	STARTER SECTION	2033	45,092.30
SPUMP0000000148	Screw Equalization Basin Archimedes P1	SEWER PUMP	2033	22,546.15
SPUMP0000000149	Screw Equalization Basin Archimedes P2	SEWER PUMP	2033	22,546.15
SPUMP0000000151	Chopper Digester Mixing P1	MIXER	2034	39,539.50
SPUMP0000000152	Chopper Digester Mixing P2	MIXER	2034	39,539.50
SHMOTOR0000000014	Centrifuge 2 Motor	MOTOR	2035	48,299.18
PLCENTRIF0000000004	Centrifuge 1	CENTRIFUGE	2035	474,997.73
PLCENTRIF0000000005	Centrifuge 2	CENTRIFUGE	2035	474,997.73
PLCENTRIF0000000006	Centrifuge 3	CENTRIFUGE	2035	474,997.73
SHGEARDRV0000000023	Cage Primary Clarifier No. 1 Gear Drive	GEAR DRIVE UNIT	2035	114,752.37
SHGEARDRV0000000024	Cage Primary Clarifier No. 2 Gear Drive	GEAR DRIVE UNIT	2035	114,752.37
SHMOTOR0000000008	RAS P1 Motor	MOTOR	2035	19,719.38
SHMOTOR0000000010	RAS P3 Motor	MOTOR	2035	21,717.91
SHMOTOR0000000013	Centrifuge 1 Motor	MOTOR	2035	48,299.18
SHMOTOR0000000015	Centrifuge 3 Motor	MOTOR	2035	48,299.18
SPUMP0000000019	Progressive Cavity Centrifuge 2 Feed	CENTRIFUGE	2035	24,742.61
SPUMP0000000020	Progressive Cavity Centrifuge 3 Feed	CENTRIFUGE	2035	24,742.61
SPUMP0000000217	Grit P1 Pump	GRIT CHAMBER	2035	56,881.16
				$ 13,709,971.63