



# City of Stockton Municipal Utilities Department Quarterly Operations Report FY 2024 - 2025 (First & Second Quarters) July - December 2024



Wastewater effluent outfall on the east bank of the San Joaquin River



SCAN TO VISIT OUR WEBPAGE

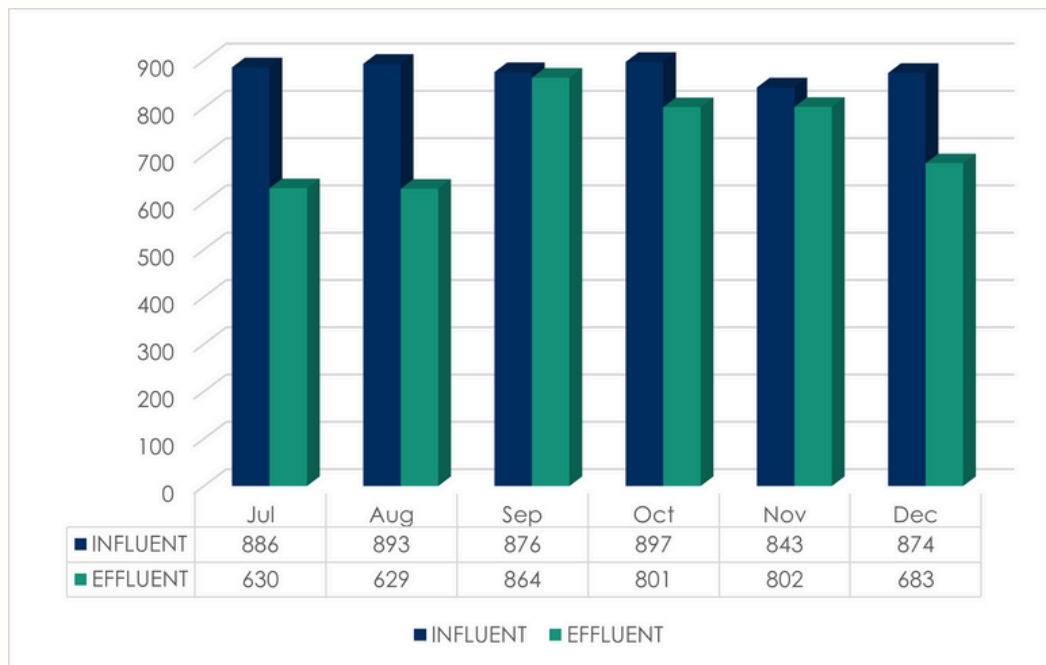




# Wastewater

The Wastewater Utility features a sanitary sewer collection system of approximately 900 miles of gravity sewer main, 554 miles of lower lateral pipe, 27 pump stations, and 30 miles of pressurized force main that route sewage for treatment at the Regional Wastewater Control Facility (RWCF). The system collects sewage from properties within the City, special districts outside the City, and certain areas within San Joaquin County. The RWCF has a permitted 55 million gallon per day advanced tertiary treatment capacity and is located on over 800 acres in the southwestern portion of the City, adjacent to the San Joaquin River. On average, the RWCF treats 30 million gallons of wastewater daily and discharges into the San Joaquin River under a National Pollutant Discharge Elimination System (NPDES) permit.

## Permit Compliance



Influent & Effluent Flow  
(Million Gallons/MG)

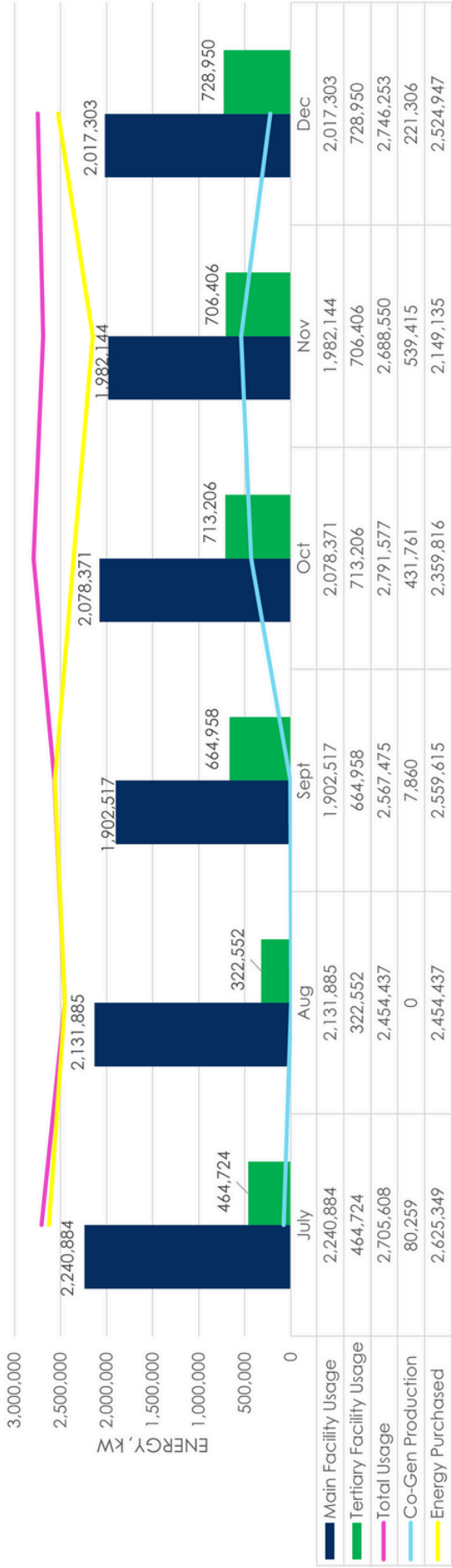
INFLUENT MONTHLY AVERAGE 24-25				EFFLUENT MONTHLY AVERAGE 24-25									
Month	Flow MGD	CBOD mg/L	TSS mg/L	Month	Flow MGD	cBOD mg/l	cBOD Removal	TSS mg/l	TSS Removal	Ammonia* mg/l	Turbidity NTU	pH	Dissolved Oxygen
				Permit Limit	≤55	<10	>85	<10	>85	≤2.4	<2	6.5-8.5	>6
July	28.6	310	420	July	20.3	<2.0	>99.6	<1.6	>99.7	<0.8	<2.0	8.3	8.3
August	28.8	260	360	August	20.3	<2.3	>99.9	1.9	100	0.4	1.6	9.4	8.6
September	29.2	270	300	September	28.8	<2.0	>99.3	<3.7	98.5	1.1	1	7.1-8.4	8.9
October	28.1	220	290	October	25.8	<2.0	>99.1	3.2	99.1	1	0.9	6.8-8.2	8.6
November	28.1	240	320	November	26.7	<2.0	>99.2	5.7	98.1	0.8	1.4	7.1-7.9	9.3
December	28.2	260	310	December	22	<2.3	>99.3	<3.3	>99.2	0.6	0.9	7.0-7.9	10

\*Seasonal limits exist for Ammonia. Permit limit shown is specific for this reporting period.



# Wastewater

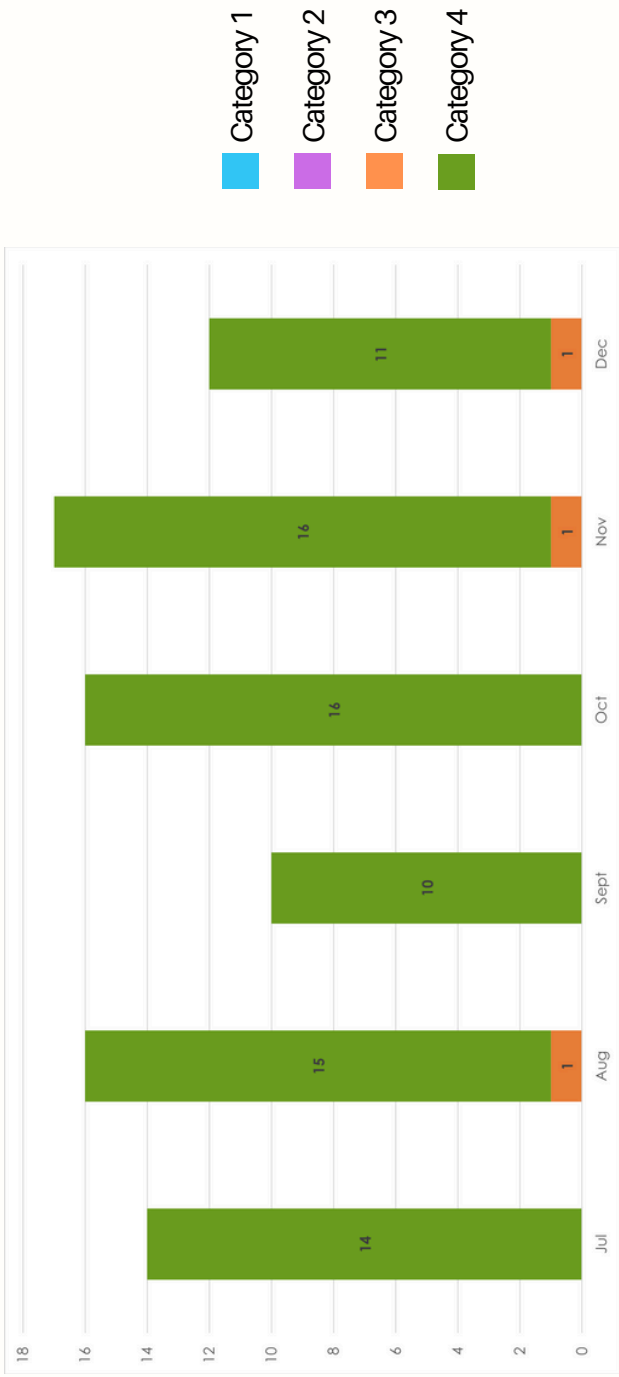
## Wastewater Energy Consumption & Production (Energy, kW) July - December 2024





# Wastewater

## Sanitary Sewer Overflows by Category July - December 2024



### Category 1 Spill

- Any volume of untreated wastewater that enters a surface water body or is not recovered from a drainage conveyance system, unless the drainage conveyance system discharges to a dedicated stormwater infiltration basin or facility.

### Category 2 Spill

- A spill of 1,000 gallons or greater, from or caused by a sanitary sewer system that does not discharge to a surface water.
- A spill of 1,000 gallons or greater that spills out of a lateral but is caused by a failure or blockage in the main lines of the sanitary sewer system.

### Category 3 Spill

- A spill of equal to or greater than 50 gallons and less than 1,000 gallons, from or caused by a sanitary sewer system that does not discharge to a surface water.
- A spill of equal to or greater than 50 gallons and less than 1,000 gallons, that spills out of a lateral but is caused by a failure or blockage in the main lines of the sanitary sewer system.

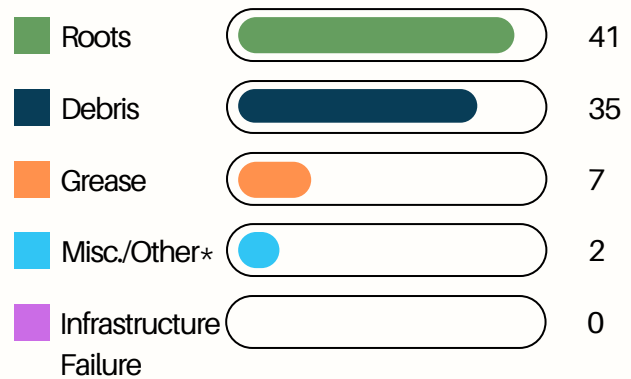
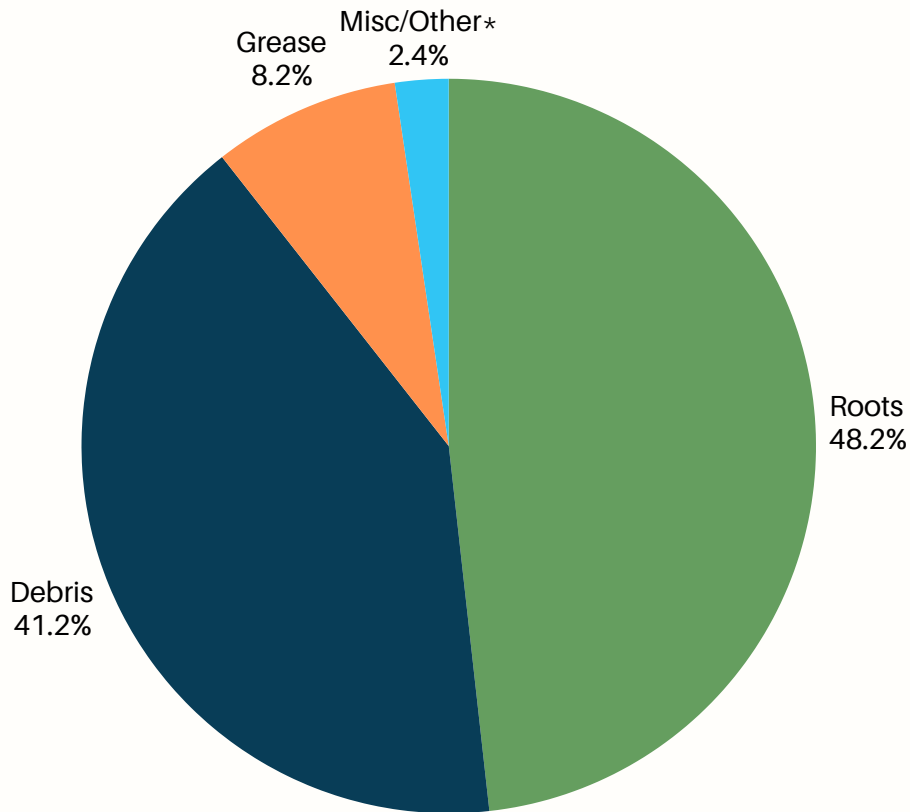
### Category 4 Spill

- A spill of less than 50 gallons, from or caused by a sanitary sewer system that does not discharge to a surface water.
- A spill of less than 50 gallons that spills out of a lateral but is caused by a failure or blockage in the main lines of the sanitary sewer system.



# Wastewater

## Sanitary Sewer Overflows by Cause July - December 2024



\*Private spills



# Water

The Water Utility provides drinking water service to the northern and southern regions of the Stockton Metropolitan Area, with the California Water Service Company and San Joaquin County serving the central region. The Delta Water Treatment Plant (DWTP) began operation in May 2012, providing up to 30 million gallons per day of treated surface water from the San Joaquin Delta and Mokelumne River. Stockton’s other water supplies are derived from the Calaveras and Stanislaus Rivers through a water supply agreement with the Stockton East Water District and several operational groundwater wells. The Water Utility maintains a water transmission and distribution system that includes seven reservoirs, 15 pumps, approximately 600 miles of pipeline, over 50,000 water meters, and multiple operational groundwater wells. The Water Utility also provides long-term water resources planning and supports a water conservation program.

## Water Production (Million Gallons per Month)

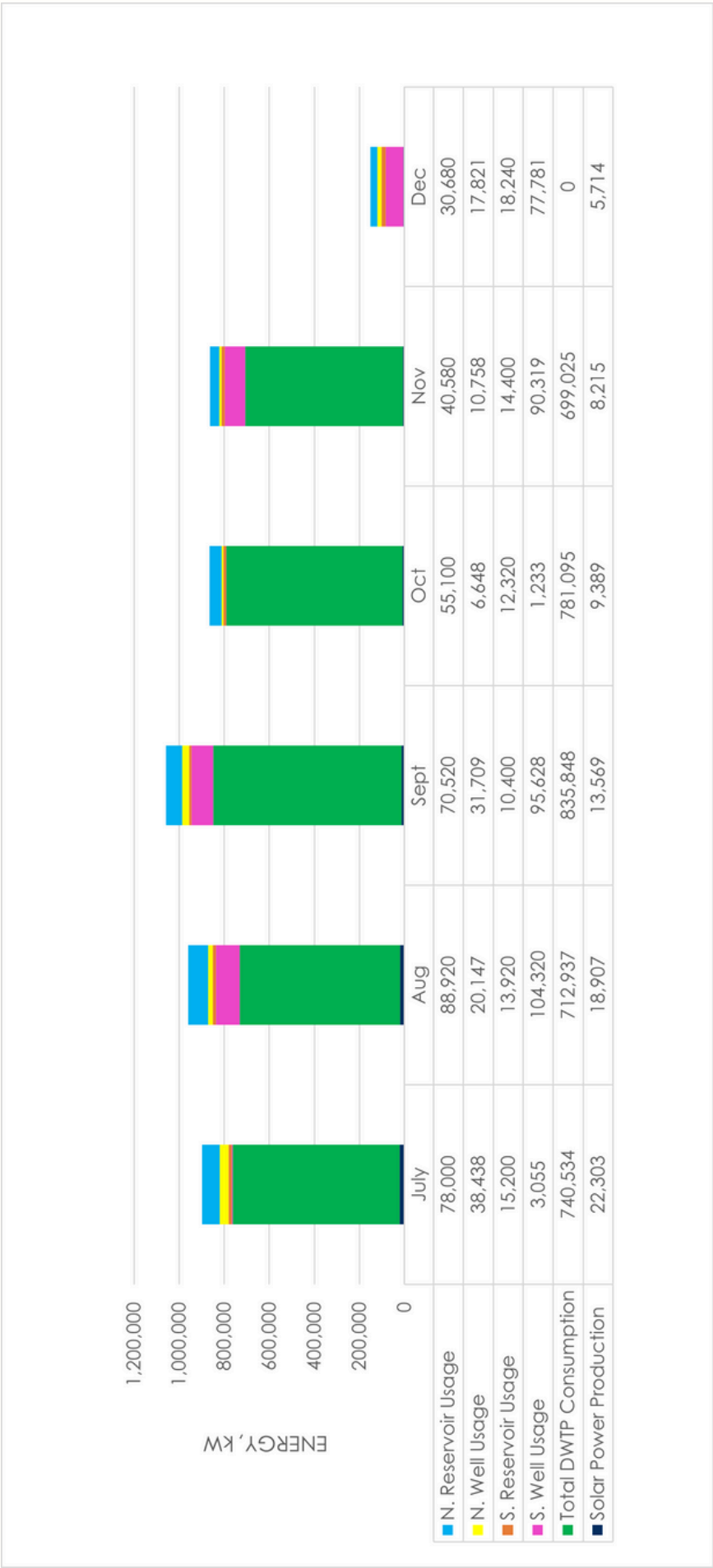
July - December 2024





# Water

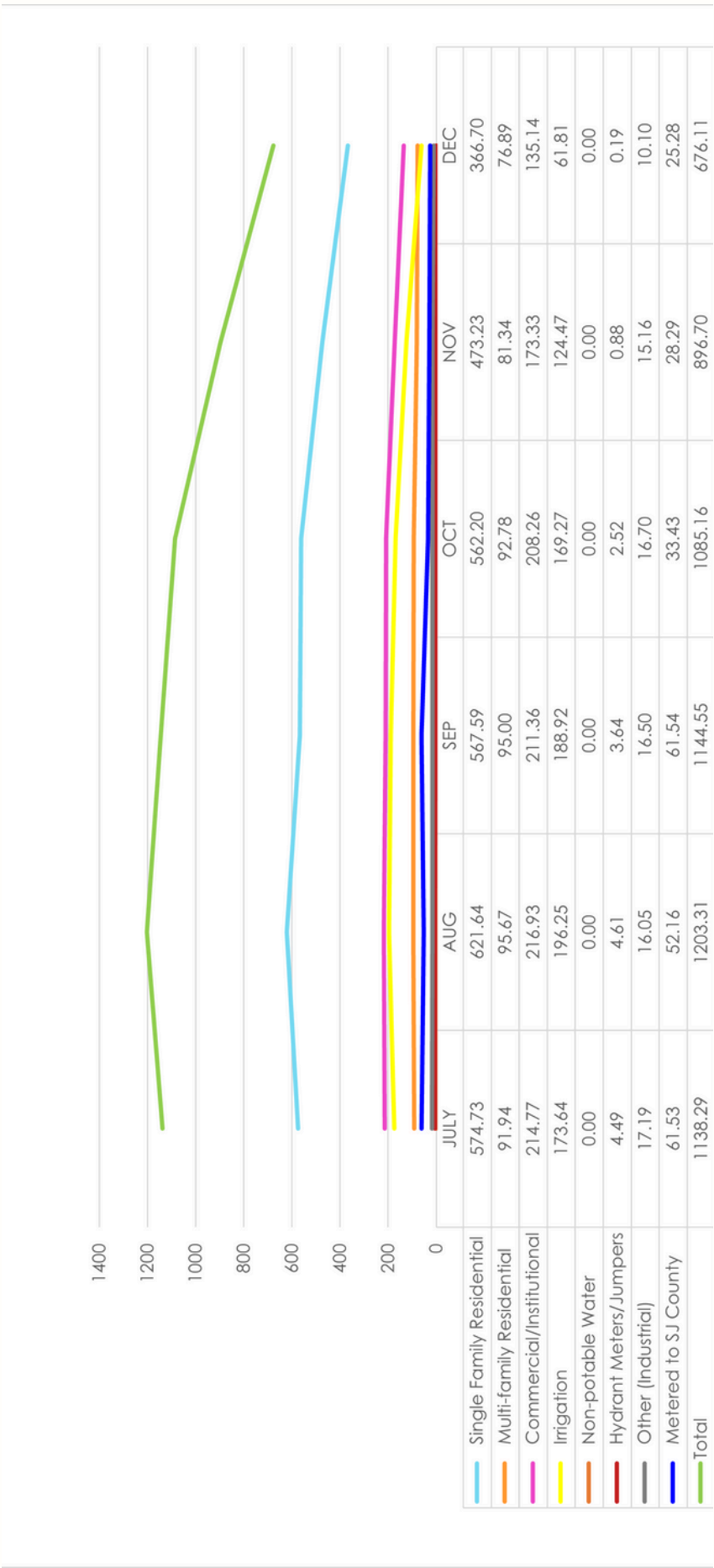
## Water Energy Consumption (Energy, kW) July - December 2024





# Water

## City Metered Consumption (Million Gallons per Month) July - December 2024







# Water

## Water Connections

July - December 2024

Meter Size	Residential	Industrial	Commercial & Institutional	Irrigation	Total
5/8"	1730	0	13	15	1,758
3/4"	24548	14	223	75	24,860
1"	22149	0	272	178	22,599
1½"	259	0	249	179	687
2"	251	1	649	467	1,368
3"	13	0	85	29	127
4"	9	2	53	19	83
6"	6	1	18	3	28
8"	0	0	8	0	8
10"	0	0	2	0	2
12"	0	0	2	0	2
<b>Totals</b>	<b>48965</b>	<b>18</b>	<b>1574</b>	<b>965</b>	<b>51,522</b>
<b>Total Number of Connections:</b>			<b>51,522</b>		



# Stormwater

The Stormwater Utility consists of 77 pump stations, over 600 miles of pipeline, and 22,500 drain inlets that route stormwater from city streets into local basins and waterways. Regular system maintenance is necessary to prevent flooding from storm runoff. The Stormwater Utility is also responsible for oversight and compliance with the City's NPDES Municipal Separate Storm Sewer System permit, which requires extensive monitoring and public outreach programs to promote water quality in the San Joaquin Delta.

## Permit Compliance Activities

July - December 2024

PROGRAM/ACTIVITY	STORMWATER MANAGEMENT PRACTICE GOAL	JUL	AUG	SEP	OCT	NOV	DEC
<b>Enforcement Actions</b>							
<i>Administrative</i>							
Notice of Warning		2	17	20	10	17	11
Notice of Violation		0	0	5	4	1	3
Administrative Citation 1st		0	0	0	0	0	0
Administrative Citation 2nd		0	0	0	0	0	0
Stop Work Order		0	0	0	0	0	0
Cease and Desist Order		0	0	0	0	0	0
Referred to RWQCB		0	0	0	0	0	0
<i>Criminal Enforcement</i>							
Misdemeanor		0	0	0	0	0	0
Infraction		0	0	0	0	0	0
<b>Inspections</b>							
Commercial		0	40	36	29	2	25
Industrial		0	0	1	1	1	9
Construction		24	58	59	55	55	53
IDDE		1	11	5	3	3	12
AMA		1	1	2	1	1	0
<b>Training Activities</b>							
Training Module					1		
<b>Public Outreach</b>							
Educational Mat'l's Distributed		26	107	103	89	62	99
Mixed Media Campaign		3	3	3	3	3	3
Community-Wide Events		1	2	2	3	3	3
*School Outreach		0	12	13	13	13	15
	* Number of schools visited						



# Support Services - Engineering

## Regional Wastewater Control Facility (RWCF) Modifications Project

The RWCF Progressive Design-Build Project's objective is to plan, design, and construct wastewater treatment facilities that can meet current regulatory treatment goals and balance future potential regulatory requirements for most conditions in a cost-effective manner, while extending the life of existing assets within the available budget of \$230 million. More specifically, the project team has considered a range of design alternatives that include configuration and operation of the existing treatment plant and construction of new facilities. The AECOM/W. M. Lyles Co., Joint Venture (JV), has generated cost-effective, creative treatment solutions and worked collaboratively with the City to identify the facility improvements that meet the project objectives.

The project includes a new headworks pump station, rehabilitated primary treatment, new secondary and tertiary treatments, and new and remodeled personnel buildings. The Basis of Design Report (BDR) for those facilities incorporates many of the Phase 2 projects identified in the 2011 Capital Improvement and Energy Management Plan as well as those improvements to meet the City's current National Pollution Discharge Elimination System (NPDES) permit issued by the Central Valley Regional Water Quality Control Board.

## Q1 and Q2 Summary 2024-2025

Commissioning is complete and the following processes are in operation:

- Replacement Mechanical Bar Screens
- New Screenings Wash Press
- New screenings handling and collection systems
- New Influent Pump Station, new grit removal system
- Rehabilitated Primary Clarifiers 1 - 8
- Converted Primary Effluent Pump Station (former Biotower Pump Station)
- Aeration Basins, Blowers
- Secondary Clarifiers
- Secondary Scum Pumps
- Return Activated Sludge (RAS) Pumps
- Waste Activated Sludge (WAS) Pumps
- Ferric chloride and hydrogen peroxide odor control facilities
- Caustic soda facilities
- Solids Dewatering Centrifuge
- Screw Conveyor
- Sludge storage pad, truck scale
- Filtrate/centrate storage and pumping systems
- Diversion Pump Station (reconfiguration and upgrade of a former secondary effluent pump station) and the associated electrical buildings.



# Support Services - Engineering

## **Regional Wastewater Control Facility (RWCF) Modifications Project - continued**

Construction of the new tertiary facilities and outfall systems is complete, including the Tertiary Diversion Structure, Tertiary Control Valve, Tertiary Filters, Ultra-Violet Disinfection, Plant Water Pumping, Final Effluent Pump Station (FEPS), East Bank Outfall and the Tertiary Electrical Building. Treatment performance of these systems has been demonstrated other than full-capacity pumping tests and testing of the new gravity effluent gate controls. However, final commissioning and completion of Acceptance Testing await resolution of problems with the tertiary flow meter and FEPS pump seal water. During the reporting period, the effluent gate actuator at the Final Effluent Pump Station was replaced with a modulating type actuator to facilitate gravity discharge during low tide conditions in the river.

The City has added cladding to the new Laboratory and Administration buildings to provide enhanced insulation and water intrusion protection; work to install the cladding began during the reporting period. City staff are occupying both buildings. Remodeling work in the new Operations & Environmental Control and new Maintenance & Collections buildings continued during the reporting period. The new Stores building was completed during the reporting period.

The new entrance guard shack, fencing, and landscaping in the entrance and visitor parking area are complete.

New breakers and extended main buss has been performed at the Main Plant Switchgear to facilitate connection of the standby generator. The new standby generator is partially tested and final testing and commissioning is anticipated in 2025.

Construction of the structure at the collection system cleaning truck transfer facility ("Vactor Pad") and water piping and electrical work are complete. The City continues to operate and maintain this facility.

The East Bank Outfall work is complete, and the facility was commissioned during the reporting period.

The JV has begun to partially demobilize temporary construction facilities not related to building remodeling or otherwise needed to complete work.

###





# Support Services - Laboratory

## Coliform Testing

July - December 2024

WATER COLIFORM MONITORING 1st & 2nd Quarters	SAMPLES		POSITIVE RESULTS	
	# Required	# Taken	Total Coliform	E. Coli
<b>July 2024</b>				
North System	120	150	0	0
Walnut Plant	2	2	0	0
South System	25	35	0	0
<b>August 2024</b>				
North System	120	120	0	0
Walnut Plant	2	2	0	0
South System	25	28	0	0
<b>September 2024</b>				
North System	120	150	0	0
Walnut Plant	2	2	0	0
South System	25	31	1	0
<b>October 2024</b>				
North System	120	135	5	0
Walnut Plant	2	2	0	0
South System	25	35	0	0
<b>November 2024</b>				
North System	120	120	0	0
Walnut Plant	2	2	0	0
South System	25	28	0	0
<b>December 2024</b>				
North System	120	150	0	0
Walnut Plant	2	2	0	0
South System	25	35	0	0

Results >0 indicate contamination



# Support Services - Environmental Control

Environmental Control  
 July - December 2024

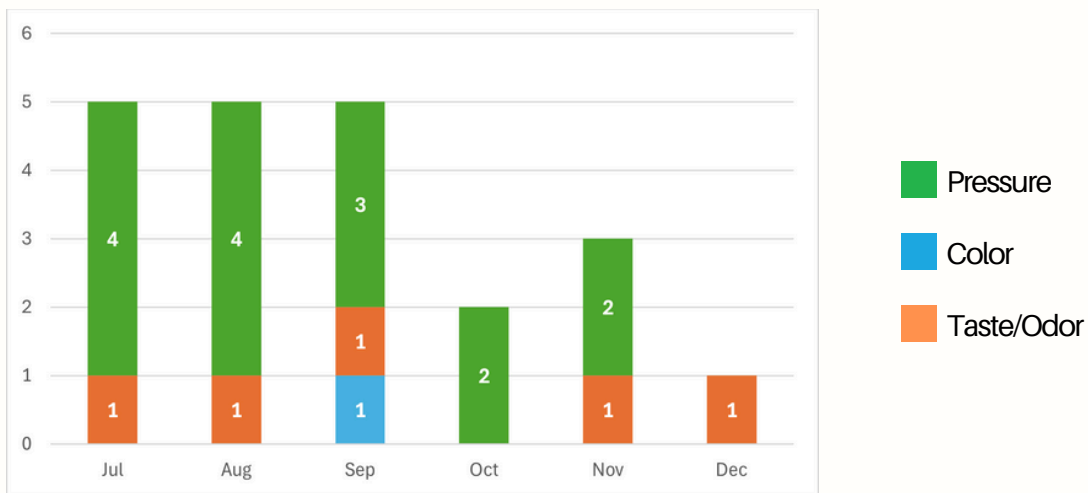
PROGRAM / ACTIVITY 2024-2025	JUL	AUG	SEP	OCT	NOV	DEC
<b>Pretreatment Program</b>						
Industrial Inspections	6	12	18	17	21	12
Industrial Sampling	15	14	9	10	21	18
Discharge Permits Issued/Reissued	1	0	1	1	2	3
Pretreatment Enforcement Actions	10	15	10	3	4	9
<b>Waste Hauler Program</b>						
Trucked-in Waste Loads	313	293	235	328	261	267
Trucked-in Waste Gallons	1,147,675	1,058,140	821,720	1,210,135	936,175	969,415
<b>FOG Program</b>						
FOG Initial Inspections	0	10	1	0	0	0
FOG Enforcement Actions	0	8	1	0	0	0
FOG Follow-up Inspections	3	3	3	0	1	0



# Support Services - Customer Service

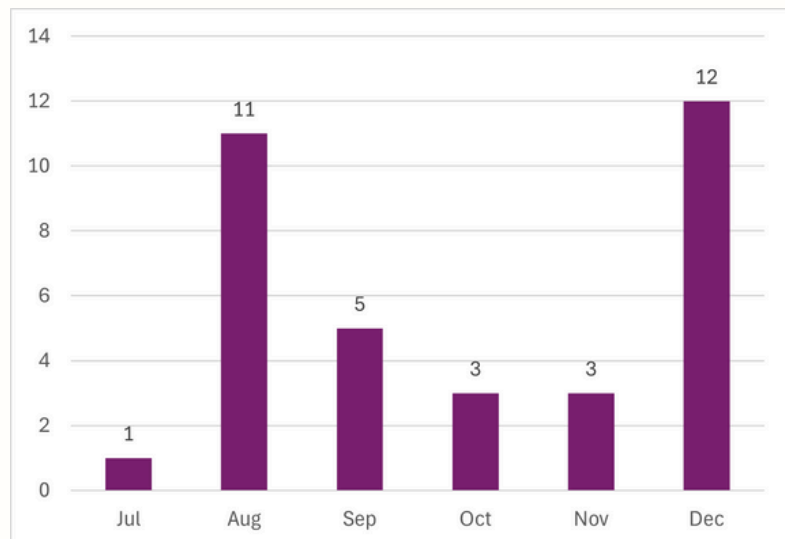
## Water Quality Complaints

July - December 2024



## Stormwater Illicit Discharges

July - December 2024

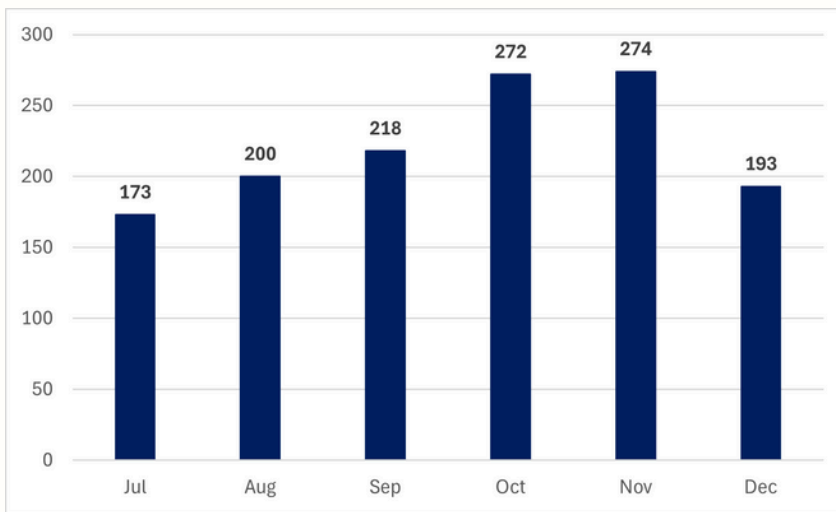




# Support Services - Customer Service

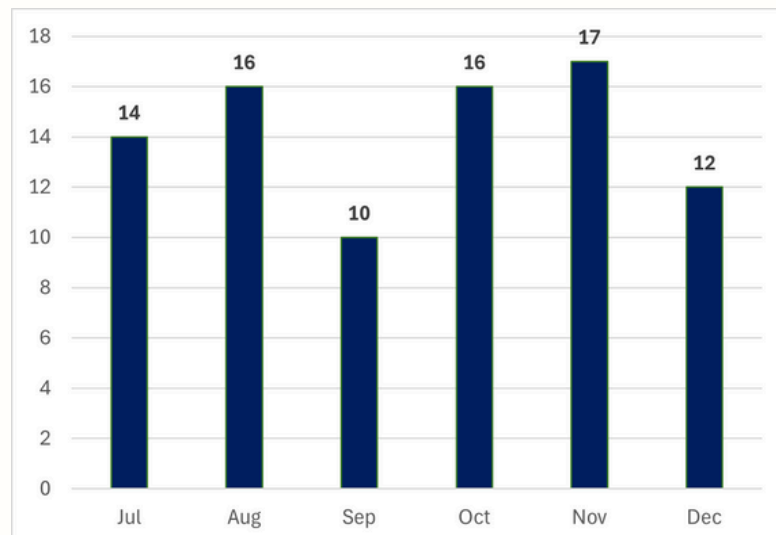
## Wastewater Service Calls

July - December 2024



## Wastewater Spills/Sanitary Sewer Overflows (SSOs)

July - December 2024







# Support Services - Finance

Operations & Maintenance Revenue / Expense Review  
 July - September 2024

July through September 2024	WATER FUND 600			WASTEWATER FUND 610			STORMWATER FUND 620		
	FY 24-25 Revised Budget	YTD Actual	Quarterly Actual	FY 24-25 Revised Budget	YTD Actual	Quarterly Actual	FY 24-25 Revised Budget	YTD Actual	Quarterly Actual
Revenues	78,140,624	25,186,073	25,186,073	93,359,305	26,310,375	26,310,375	6,467,814	4,819,717	4,819,717
Expenditures	71,135,632	12,633,066	12,633,066	122,862,191	20,142,838	20,142,838	9,764,043	1,458,001	1,299,107
Balance	7,004,992	12,553,007	\$12,553,007	(29,502,886)	6,167,536	\$6,167,536	(3,296,229)	3,361,716	3,520,610



# Support Services - Finance

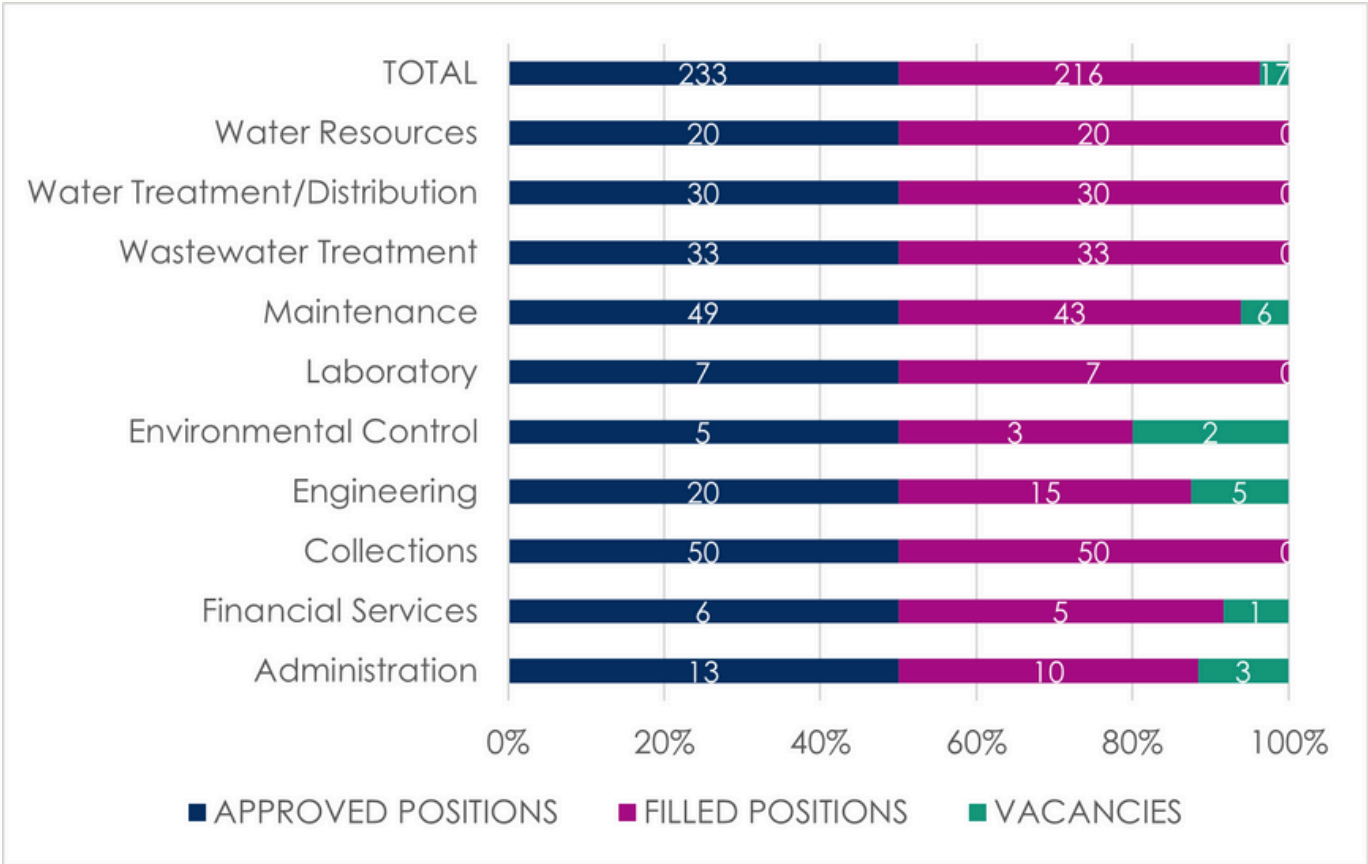
Operations & Maintenance Revenue / Expense Review  
 October - December 2024

October through December 2024	WATER FUND 600			WASTEWATER FUND 610			STORMWATER FUND 620		
	FY 24-25 Revised Budget	YTD Actual	Quarterly Actual	FY 24-25 Revised Budget	YTD Actual	Quarterly Actual	FY 24-25 Revised Budget	YTD Actual	Quarterly Actual
Revenues	78,140,624	44,031,637	18,845,565	93,359,305	49,182,643	22,872,268	6,467,814	6,568,175	1,748,458
Expenditures	71,135,632	22,886,286	10,253,220	122,862,191	38,878,139	18,735,300	9,764,043	2,839,090	1,381,089
Balance	7,004,992	21,145,351	\$8,592,345	(29,502,886)	10,304,504	\$4,136,967	(3,296,229)	3,729,085	367,369



# Support Services - Administration

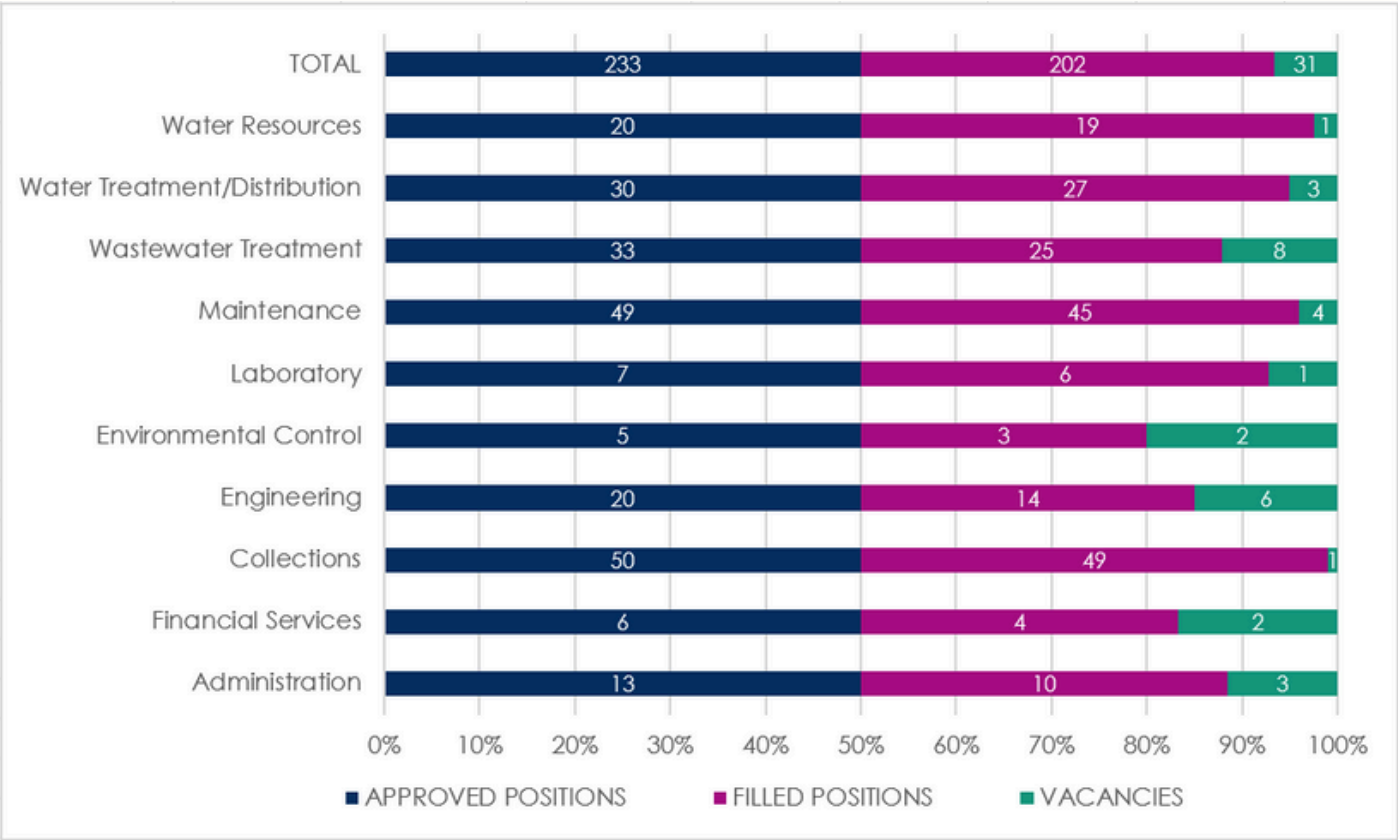
Administration - Staffing  
July - September 2024





# Support Services - Administration

Administration - Staffing  
October - December 2024







# Support Services - Safety

## Safety Program

January - December 2024

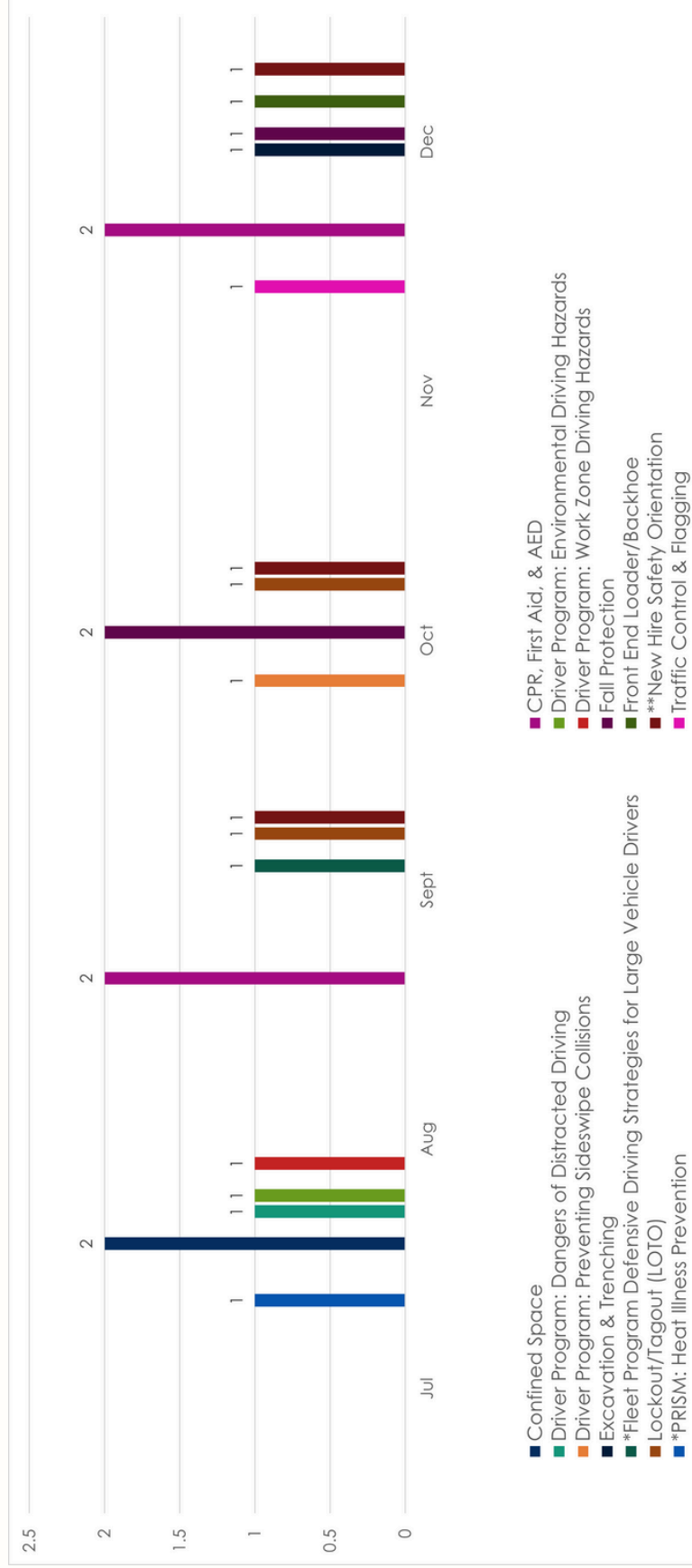
SAFETY 2024													Calendar Year-To- Date*
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	
Reported Unsafe Acts	1	0	0	1	1	0	0	1	0	0	1	0	5
No-Fault Vehicle Accidents	0	1	0	0	0	0	0	0	2	1	1	0	5
At-Fault Vehicle Accidents	1	1	3	0	0	2	0	2	0	1	2	1	13
Total Vehicle Accidents	1	2	3	0	0	2	0	2	2	2	3	1	18
Total # Injuries & Accidents	4	5	6	1	2	1	4	3	4	2	5	1	38
Lost Time Events	0	1	0	0	0	0	4	0	1	0	0	0	6
Work Restriction Events	0	0	0	0	0	0	0	1	1	1	1	0	4
Total OSHA Recordable Events	0	1	0	0	0	0	4	1	2	1	1	0	10
*Occupational Safety and Health Administration OSHA reporting is on a calendar year													



# Support Services - Safety

## Safety Trainings

July - December 2024



\*Online courses

\*\*New Hire Safety Orientation also includes Injury and Illness Prevention Program, Bloodborne Pathogens, HAZCOM, and Emergency Response