

Program: Utilities/Wastewater – Capital Construction

Services Delivered:

This activity provides for the planning, engineering and construction of sewer lines, pumping stations, and treatment facilities for the Wastewater Program. The Public Works Engineering Technician is shown here, but actual expenditures are spread across Wastewater, Water, and Transportation projects.

This portion of the Wastewater system receives financing from System Development Charge revenues and transfers from wastewater operations. The Wastewater system includes the treatment plant, five pump stations, and the collection system. Major repairs and improvements are financed through this capital budget.

This budget sets aside funds to provide for the major rehabilitation of the treatment plant, pump stations and replacement of deteriorated sewer piping within the collection system.

Personnel:

	BUDGET FY'12	BUDGET FY'13	BUDGET FY'14	REVISED FY'14	MANAGER ADOPTED FY'15	PROJECTED FY'16
Engineering Technician	1.00	1.00	1.00	1.00	1.00	1.00

FY'15 Anticipated Accomplishments & Corresponding Council Goal - Strategic Plan Item:

Maintain, Operate, and Expand our Infrastructure

Objective 1: Plan for utility infrastructure

- Develop 20-year infrastructure master plans after the UGB expansion is completed.

Objective 3: Ensure sewer infrastructure needs are met

Action 2: Upgrade sewer lines

- Upgrade sewer lines in the core of the community per the Sewer Collection Master Plan.

Action 4: Evaluate Wastewater Treatment Plant expansion

- Initiate plant expansion per the Wastewater Treatment Facility Plan Update.

Budget Highlights:

The Active Capital Project list includes projects coming to a close in FY'14, but which are not finalized at this time.

The project listing shows resources across the columns. Columns show the “Actual resources through FY'13”; the re-assessed resource needs of projects using current data for the “Revised FY'14” column, guiding our “Adopted FY'15” and resources estimated “Through FY'15”. We have “Future Years” and “Total Project” columns for each project.

The individual project pages describe the project, the need, future and ongoing costs, and the total project cost. The tables show when and where the money is budgeted to come from and the expenses incurred and budgeted to incur through completion.

Program: Utilities/Wastewater – Capital Construction

FY'14 Activity Review:

- Structural sewer lines were replaced in the core of the City.
- Work continued on the Wastewater Treatment Plant Facility Plan Update.
- Continued preliminary work on the Collection System Master Plan in anticipation of the UGB expansion being approved.
- Continued design work on JO-GRO™ storm water deficiency improvements. The project` was terminated when the decision was made to discontinue the JO-GRO operation.

Program: Utilities/Wastewater – Capital Construction

ACTIVE CAPITAL PROJECT RESOURCES

		Actual Through FY'13	Revised FY'14	A d o p t e d FY'15	Total Through FY'15	Future Years	Total Project
SE0000	Miscellaneous Projects - SDC Fund 722	166,318	(50,000)	0	116,318	(3,900,000)	(3,783,682)
SE0000	Miscellaneous Projects - AFD Fund 725	84,778	0	0	84,778	0	84,778
SE0000	Miscellaneous Projects - General Fund 728	1,730,281	371,000	(1,050,608)	1,050,673	(5,049,638)	(3,998,965)
SE4963	Update WRP Facility Plan	220,000	110,000	0	330,000	0	330,000
SE4964	WRP Phase 2 Expansion	1,085,000	450,000	1,900,000	3,435,000	8,590,000	12,025,000
SE5080	WRP Structural Repairs	158,000	75,000	75,000	308,000	300,000	608,000
SE5081	Collection System Master Plan Update	225,000	50,000	0	275,000	0	275,000
SE6012	Western Avenue Sewer Replacement	10,000	0	0	10,000	2,050,000	2,060,000
SE6064	Sewer Main Structural Repairs	865,000	400,000	550,000	1,815,000	1,885,000	3,700,000
SE6111	Mill Street Sewer Reconstruction	125,000	0	0	125,000	4,215,000	4,340,000
SE6112	Sewer Rate Study SE & RS	35,000	35,000	0	70,000	0	70,000
SE6156	Sewer Mains Related to Overlays	50,000	0	0	50,000	1,850,000	1,900,000
SE6198	Collection System Maintenance-Repair Pump-Lift Station Equipment	0	125,000	75,000	200,000	300,000	500,000
SE6199	Improvement	0	75,000	10,000	85,000	40,000	125,000
SE6200	Spaulding Indust. Park WW Infrastructure	0	100,000	0	100,000	0	100,000
NEW PROJECTS							
SEXX01	General Engineering Services	0	0	40,000	40,000	80,000	120,000
SEXX02	Effluent Mixing Zone Dye Tracer Study	0	0	50,000	50,000	0	50,000
SEXX03	WRP Equipment Improvement	0	0	50,000	50,000	200,000	250,000
SEXX04	Webster PS No. 1 Rehab	0	0	750,000	750,000	0	750,000
SEXX05	WRP SCADA System Evaluation	<u>0</u>	<u>0</u>	<u>50,000</u>	<u>50,000</u>	<u>0</u>	<u>50,000</u>
	Total Projects	<u>4,754,377</u>	<u>1,741,000</u>	<u>2,499,392</u>	<u>8,994,769</u>	<u>10,560,362</u>	<u>19,555,131</u>

CLOSED OR CANCELLED CAPITAL PROJECT RESOURCES

SE4745	WRP & JOGRO™ Equipment Improv.	400,000	0	0	400,000	0	400,000
SE4960	JO-GRO™ Miscellaneous Upgrades	879,020	(450,000)	0	429,020	0	429,020
SE5060	General Engineering	<u>121,000</u>	<u>(30,000)</u>	<u>0</u>	<u>91,000</u>	<u>0</u>	<u>91,000</u>
	Total Closed Projects	<u>1,400,020</u>	<u>(480,000)</u>	<u>0</u>	<u>920,020</u>	<u>0</u>	<u>920,020</u>
	Grand Total - All Projects	<u>6,154,397</u>	<u>1,261,000</u>	<u>2,499,392</u>	<u>9,914,789</u>	<u>10,560,362</u>	<u>20,475,151</u>

Program: Utilities/Wastewater – Capital Construction

ACTIVE CAPITAL PROJECT SUMMARIES FOR FY'14

		Adopted FY'15 Beginning Fund Balance	Adopted FY'15 Revenue	Adopted FY'15 Capital Outlay	Adopted FY'15 Transfers	Adopted FY'15 Appropriated Fund Balance
SE0000	Miscellaneous Projects - SDC Fund 722	116,318	0	0	0	116,318
SE0000	Miscellaneous Projects - AFD Fund 725	3,838	0	0	0	3,838
SE0000	Miscellaneous Projects - General Fund 728	1,137,367	(1,050,608)	0	0	86,759
SE4963	Update WRP Facility Plan	0	0	0	0	0
SE4964	WRP Phase 2 Expansion	1,087,518	1,900,000	2,987,518	0	0
SE5080	WRP Structural Repairs	77,382	75,000	152,382	0	0
SE5081	Collection System Master Plan Update	85,095	0	85,095	0	0
SE6012	Western Avenue Sewer Replacement	4,879	0	4,879	0	0
SE6064	Sewer Main Structural Repairs	150,673	550,000	700,673	0	0
SE6111	Mill Street Sewer Reconstruction	100,000	0	100,000	0	0
SE6112	Sewer Rate Study SE & RS	35,000	0	35,000	0	0
SE6156	Sewer Mains Related to Overlays	0	0	0	0	0
SE6198	Collection System Maintenance-Repair	25,000	75,000	100,000	0	0
SE6199	Pump-Lift Station Equipment Improvement	40,000	10,000	50,000	0	0
SE6200	Spaulding Indust. Park WW Infrastructure	75,000	0	75,000	0	0
NEW PROJECTS						
SEXX01	General Engineering Services	0	40,000	40,000	0	0
SEXX02	Effluent Mixing Zone Dye Tracer Study	0	50,000	50,000	0	0
SEXX03	WRP Equipment Improvement	0	50,000	50,000	0	0
SEXX04	Webster PS No. 1 Rehab	0	750,000	750,000	0	0
SEXX05	WRP SCADA System Evaluation	0	50,000	50,000	0	0
	Total Projects	<u>2,938,070</u>	<u>2,499,392</u>	<u>5,230,547</u>	<u>0</u>	<u>206,915</u>

Program: Utilities/Wastewater – Capital Construction

Financial Summary

	ACTUAL FY' 12 \$	ACTUAL FY' 13 \$	BUDGET FY' 14 \$	REVISED FY' 14 \$	MANAGER A D O P T E D FY' 15 \$	PROJECTED FY' 16 \$
Beginning Fund Balance	<u>2,229,858</u>	<u>3,152,559</u>	<u>2,333,738</u>	<u>2,333,738</u>	<u>2,938,070</u>	<u>206,915</u>
Resources						
Development Charges	168,271	254,974	150,000	150,000	150,000	150,000
Investment Interest	16,846	17,269	1,000	1,000	1,000	0
Advance Finance Interest	436	397	0	0	0	0
SDC Loans	8,816	7,559	0	0	0	0
General Fund	0	0	150,000	150,000	150,000	155,000
Sewer Fund	855,046	951,750	959,000	959,000	1,647,392	1,159,362
Water Fund	50,000	0	0	0	0	0
Equipment Replacement	0	0	0	0	550,000	0
RSSSD	5,000	5,000	0	0	0	0
Miscellaneous Revenues	8,049	0	0	0	0	0
Advance Financing	<u>824</u>	<u>3,960</u>	<u>1,000</u>	<u>1,000</u>	<u>1,000</u>	<u>0</u>
Total Current Revenues	<u>1,113,288</u>	<u>1,240,909</u>	<u>1,261,000</u>	<u>1,261,000</u>	<u>2,499,392</u>	<u>1,464,362</u>
Total Resources	<u>3,343,146</u>	<u>4,393,468</u>	<u>3,594,738</u>	<u>3,594,738</u>	<u>5,437,462</u>	<u>1,671,277</u>
Requirements						
Capital Outlay	<u>647,808</u>	<u>941,424</u>	<u>3,550,062</u>	<u>3,550,062</u>	<u>5,230,547</u>	<u>1,385,000</u>
<i>Subtotal Expenditures</i>	<u>647,808</u>	<u>941,424</u>	<u>3,550,062</u>	<u>3,550,062</u>	<u>5,230,547</u>	<u>1,385,000</u>
Appropriated Fund Balance	<u>2,695,338</u>	<u>3,452,044</u>	<u>44,676</u>	<u>44,676</u>	<u>206,915</u>	<u>286,277</u>
Total Requirements	<u>3,343,146</u>	<u>4,393,468</u>	<u>3,594,738</u>	<u>3,594,738</u>	<u>5,437,462</u>	<u>1,671,277</u>

Program: Utilities/Wastewater – Capital Construction

Project	SE0000	Fund 722	Wastewater System Development Charges
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Project Description

This project accounts for money collected during development in order to fund Wastewater projects.

Need for Project

Since the establishment of the Wastewater System Development Charge (SDC), this fund has been used as the depository of these revenues, pending budgetary authorization for use of the funds.

Estimated Total Project Cost: These monies were allocated to specific projects during the Budget process.

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater SDC's	3,181,405	150,000	150,000	150,000	3,481,405	150,000	450,000	4,081,405
Wastewater SDC's to Projects	(3,642,963)	(200,000)	(200,000)	(150,000)	(3,992,963)	(150,000)	(4,350,000)	(8,492,963)
RSSSD SDC's	437,129				437,129			437,129
Investment/Loan Interest	190,747				190,747			190,747
					0			0
					0			0
Total Resources					116,318			(3,783,682)

Requirements

Expenditures					0			0
Transfers					0			0
Ending Balance by Year	166,318	3,812	116,318	116,318	116,318	116,318	(3,783,682)	(3,783,682)
Total Requirements					116,318			(3,783,682)

Program: Utilities/Wastewater – Capital Construction

Project	SE0000	Fund 725 Wastewater Advanced Financing
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Project Description

This project is used by our accounting function to account for all funds reimbursed to the wastewater utility from Advance Financed District (AFD) projects for which the utility was the project developer and revenue source.

Need for Project

The City Council has implemented a series of rate system structures to prepare for these projects, and this account is the method for accumulating all resources available to the system.

Estimated Total Project Cost: This project has no cost. It is an accounting entity for the purpose of accumulating resources.

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater AFD's	345,730	1,000	1,000	1,000	347,730		3,000	350,730
Wastewater AFD's to Projects	(285,082)	(1,000)	(1,000)	(1,000)	(287,082)		(3,000)	(290,082)
Investment Interest	24,130				24,130			24,130
Total Resources					84,778			84,778

Requirements

Expenditures	80,940				80,940			80,940
Transfers/ Contingency					0			0
Ending Balance by Year	3,838	380	3,838	3,838	3,838	3,838	3,838	3,838
Total Requirements					84,778			84,778

Program: Utilities/Wastewater – Capital Construction

Project	SE0000	Fund 728 Sewer Capital Projects – General						
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Project Description

This project description is used by our accounting function to account for all funds located in the wastewater capital projects funds that are not specifically appropriated to a project. All funds from System Development Charges and all surplus from wastewater operations are deposited in the capital projects fund. When appropriations are needed in the ensuing fiscal period, or if construction scopes are altered to respond to changed conditions, this project is the source for financing for the projects.

Need for Project

The City Council has implemented a series of rate system structures to prepare for these projects, and this account is the method for accumulating all resources available to the system.

Estimated Total Project Cost: This project has no cost. It is an accounting entity for the purpose of accumulating resources.

Schedule

The cash financing accumulation for the wastewater expansion will be continued in this account, with interim financing for the next phase of construction augmenting cash flow to allow the single debt basis anticipated in the rate analysis.

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Operations Fund Transfers	9,434,284	959,000	959,000	1,647,392	12,040,676	1,159,362	2,600,000	15,800,038
Wastewater Capital & SDC's to Projects	(14,034,858)	(1,430,000)	(590,000)	(3,250,000)	(17,874,858)	(1,080,000)	(7,735,000)	(26,689,858)
Advance Finance	744,988	1,000	1,000	1,000	746,988		3,000	749,988
Investment Interest	2,196,397	1,000	1,000	1,000	2,198,397		3,000	2,201,397
Wastewater & RSSSD SDC's	2,529,304				2,529,304			2,529,304
Other/Fleet FY15	860,166			550,000	1,410,166			1,410,166
Total Resources					1,050,673			(3,998,965)

Requirements

Expenditures	469,023				469,023			469,023
Transfers	494,891				494,891			494,891
Ending Balance by Year	766,367	40,484	1,137,367	86,759	86,759	166,121	(4,962,879)	(4,962,879)
Total Requirements					1,050,673			(3,998,965)

Program: Utilities/Wastewater – Capital Construction

Project	SE4963	Update WRP Facility Plan
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Project Description

This project will update the facility plan.

Need for Project

ODEQ has suggested updating the facilities plan approximately every 5 years. The update will verify design basis for the planned phase 2 expansion. Most funding options for the planned expansion will require a current facilities plan. Methane gas generation will be evaluated with the new plan.



Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs

Objective 1: Plan for utility infrastructure.

Future and Ongoing Costs

Unknown at this time.

A seismic/structural evaluation component was added to the original intent of work. This increased the estimated project cost.

Estimated Total Project Cost: \$330,000 revised from original \$250,000 estimate

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects (* correct FY'13 error)	220,000		*110,000		330,000			330,000
					0			0
					0			0
Total Resources					330,000			330,000

Requirements

Expenditures	239,637		90,363		330,000			330,000
Transfers/Contingency					0			0
Ending Balance by Year	-19,637	0						
Total Requirements					330,000			330,000

Program: Utilities/Wastewater – Capital Construction

Project	SE4964	WRP Phase 2 Expansion
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Project Description

This project will expand aeration basin capacity, install reuse filtration, new secondary clarifier, thickener modifications, seismic upgrades, replacement UV equipment and miscellaneous piping, electrical and SCADA improvements.



Need for Project

The project will expand the capacity of the WRP and meet anticipated treatment requirements from ODEQ.

Council Strategic Goal: Maintain, Operate and Expand Our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs: Design and construction. Design of the expansion/improvements cannot occur until the Facilities Plan Update (SE 4963) is complete. Facilities Plan Update will take approximately 12 to 18 months to complete, once started. Design of expansion/improvements will take approximately 18 to 24 months after completion of Facilities Plan. Construction of designed expansion/improvements will last approximately 18 to 36 months.

Estimated Total Project Cost: \$12,025,000 revised from \$9,970,000 to reflect ENR index of Jan 2013

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects	255,000	250,000	250,000	1,750,000	2,255,000	450,000	1,350,000	4,055,000
Wastewater SDC's	830,000	200,000	200,000	150,000	1,180,000	150,000	600,000	1,930,000
Loan					0		6,040,000	6,040,000
Total Resources					3,435,000			12,025,000

Requirements

Expenditures	47,482	1,404,827	400,000	2,987,518	3,435,000	600,000	7,990,000	12,025,000
Transfers/Contingency					0			0
Ending Balance by Year	1,037,518	0	1,087,518	0	0	0	0	0
Total Requirements					3,435,000			12,025,000

Program: Utilities/Wastewater – Capital Construction

Project	SE5080	WRP Structural Repairs
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Project Description

This project will fund many minor repairs necessary for the proper operation and long term maintenance of the Water Restoration Plant. Included items are: roof repairs, exterior painting/restoration, stairways and landings. This project will also repair/install needed fall protection.

Need for Project

The project is needed for efficiency and for safety. It will create a fund for a large number of small capital projects to ensure the longevity of the Water Restoration Plant and its supporting structures. Two out buildings with flat roofs have wood rot and need to be re-roofed. We will convert the flat roofs to a slope roof with metal covers similar to other out buildings we have on site.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Evaluation and repair of both known and unknown deficiencies.

Estimated Total Project Cost: \$ 75,000/year as available

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects	158,000	75,000	75,000	75,000	308,000	75,000	225,000	608,000
					0			0
					0			0
Total Resources					308,000			608,000

Requirements

Expenditures	55,618	102,382	100,000	152,382	308,000	75,000	225,000	608,000
Transfers/ Contingency					0			0
Ending Balance by Year	102,382	0	77,382	0	0	0	0	0
Total Requirements					308,000			608,000

Program: Utilities/Wastewater – Capital Construction

Project	SE5081	Collection System Master Plan Update
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Project Description

This project will update the Collection System Master Plan completed in 2004.

Need for Project

The Master Plan Update will identify infrastructure requirements and sizing to serve the enlarged Urban Growth Boundary.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs

Objective 1: Plan for utility infrastructure.

Future and Ongoing Costs

After preliminary discussions to update and calibrate flow model, it has been determined original project cost estimate was low.

New flow model will be developed and flow monitoring will be complete FY'12. Completion of the Master Plan will not occur until after the UGB enlargement process is complete.

Original Estimated Total Project Cost: \$ 100,000

Revised Estimated Project Cost: \$275,000 Revised from \$225,000 to reflect remaining RS share

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects	225,000	50,000	50,000		275,000			275,000
					0			0
					0			0
Total Resources					275,000			275,000

Requirements

Expenditures	139,905	70,501	50,000	85,095	275,000			275,000
Transfers/ Contingency					0			0
Ending Balance by Year	85,095	0	85,095	0	0	0	0	0
Total Requirements					275,000			275,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6012	Western Avenue Sewer Replacement
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Project Description

This project will replace and upsize old deteriorated concrete sewer pipe in Western Avenue from 'G' Street to the Water Restoration plant. Approximately 4,700 lineal feet of 18" diameter sewer pipe will be installed.

Need for Project

The existing concrete pipe is severely deteriorated and is structurally failing. This pipeline serves the area west of Western Avenue from Upper River Road to the Rogue River. Increasing flows in the future are expected in the area due to growth. This pipeline also receives flow from the Bridge Street Pump Station. Currently the pipeline experiences surcharging during peak rainfall events. This project was ranked as the second priority for hydraulic capacity improvements in the 2004 Collection System Master Plan.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Evaluation of both known and unknown deficiencies.

Estimated Total Project Cost: \$2,060,000 revised from \$1,800,000 to reflect ENR index of Jan 2013

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects					0		1,000,000	1,000,000
Wastewater SDC's 86%	10,000				10,000		1,050,000	1,060,000
					0			0
Total Resources					10,000			2,060,000

Requirements

Expenditures	121	5,879	5,000	4,879	10,000		2,050,000	2,060,000
Transfers/ Contingency					0			0
Ending Balance by Year	9,879	0	4,879	0	0	0	0	0
Total Requirements					10,000			2,060,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6064	Sewer Main Structural Repairs (Multiple Phases)
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Project Description

This project will replace very old structurally deficient sewer pipe in 5th Street, the alleys fronting 5th Street between 'M' and 'A' Streets and the alleys fronting Pine Street between Bridge and 'G' Streets. The alleys identified for repair will be ranked as to severity and the project completed in multiple phases.

Need for Project

The majority of the sewer lines in the alleys are very old 6" pipe, have structural defects (cracks, holes and broken pipe) and extensive root encroachment which requires frequent and difficult cleaning and maintenance. This project combines the top two ranked priorities for structural repair in the 2004 Collection System Master Plan.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Design and construction expected to continue as funding allows.

Estimated Total Project Cost: \$3,700,000

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects	865,000	250,000	250,000	400,000	1,515,000	400,000	1,330,000	3,245,000
General Fund		150,000	150,000	150,000	300,000	155,000		455,000
					0			0
Total Resources					1,815,000			3,700,000

Requirements

Expenditures	514,327	584,075	600,000	700,673	1,815,000	555,000	1,330,000	3,700,000
Transfers/ Contingency					0			0
Ending Balance by Year	350,673	0	150,673	0	0	0	0	0
Total Requirements					1,815,000			3,700,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6111	Mill Street Sewer Reconstruction
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Project Description

This project will replace approximately 9,500 linear feet of sewer main.

Need for Project

Currently a large segment of the sewer main is near capacity and inaccessible for maintenance. The reconstruction will install new accessible main line, substantially reduce current inflow and infiltration problems and add capacity. The installation will effectively increase the capacity of the dual river siphons to beyond 2060. This project was identified in the Collection System Master Plan as a top priority.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Evaluation of both known and unknown deficiencies.

Estimated Total Project Cost: \$4,340,000 revised from \$4,150,000 to reflect ENR index of Jan 2013

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects					0		1,515,000	1,515,000
Wastewater SDC's 70%	125,000				125,000		2,700,000	2,825,000
					0			0
Total Resources					125,000			4,340,000

Requirements

Expenditures		100,000	25,000	100,000	125,000	0	4,215,000	4,340,000
Transfers/ Contingency					0			0
Ending Balance by Year	125,000	0	100,000	0	0	0	0	0
Total Requirements					125,000			4,340,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6112	Sewer Rate Study SE & RS
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Project Description

This project will evaluate and recommend appropriate service area sewer rates after the master plans are updated.

Need for Project

After the UGB is finalized, wastewater master plans will be updated. With the new capital improvement plans rates will need to be reviewed.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Not applicable

Estimated Total Project Cost: \$70,000 Revised from \$35,000 to reflect remaining RS share

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects	35,000	35,000	35,000		70,000			70,000
					0			0
					0			0
Total Resources					70,000			70,000

Requirements

Expenditures		60,000	35,000	35,000	70,000			70,000
Transfers/ Contingency					0			0
Ending Balance by Year	35,000	0	35,000	0	0	0	0	0
Total Requirements					70,000			70,000

Program: Utilities/Wastewater – Capital Construction

Project SE6156 Sewer Mains Related to Overlays
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Project Description

This project will replace old structurally deficient sewer pipe in streets prior to scheduled overlay work.

Need for Project

The majority of the sewer lines are old, have structural defects (cracks, holes and broken pipe) and extensive root encroachment which requires frequent and difficult cleaning and maintenance. This project will assist completion of underground infrastructure work prior to scheduled street overlays.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Design and construction of deficient mains.

Estimated Total Project Cost: \$1,900,000

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects	50,000				50,000		1,850,000	1,900,000
Wastewater SDC's					0			0
					0			0
Total Resources					50,000			1,900,000

Requirements

Expenditures	5,392		44,608		50,000		1,850,000	1,900,000
Transfers/ Contingency					0			0
Ending Balance by Year	44,608	0	0	0	0	0	0	0
Total Requirements					50,000			1,900,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6198	Collection System Maintenance/Repair
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Project Description

This project will replace badly deteriorated sewer mains, or appurtenances, typically prior to paving due to street overlay, new development or alley repairs. In addition, this project will repair collection system deficiencies related to inflow and infiltration (I & I).

Need for Project

The maintenance is needed to repair severely structurally defective sewer mains, or appurtenances, when encountered. Replacement prior to paving avoids the need to cut new or recently replaced paving due to sewer line failure. Recent storm events resulted in high flows from the Darneille Pump Station. The flows increased rapidly in correlation to the amount of rainfall indicating a large amount of I & I. This project will correct areas of excessive I & I identified with the recent flow monitoring information.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Evaluation and repair of unanticipated problems.

Estimated Total Project Cost: The target is \$75,000 per year when funds are available.

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects		125,000	125,000	75,000	200,000	75,000	225,000	500,000
Wastewater SDC's					0			0
					0			0
Total Resources					200,000			500,000

Requirements

Expenditures		125,000	100,000	100,000	200,000	75,000	225,000	500,000
Transfers/ Contingency					0			0
Ending Balance by Year	0	0	25,000	0	0	0	0	0
Total Requirements					200,000			500,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6199	Pump/Lift Station Equipment Improvement
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Project Description

This is the replacement or rebuild project for miscellaneous equipment such as pumps, motors and emergency generators located at the various pump and lift stations. One of the first items identified to be in need of replacement is the emergency generator and associated electrical transfer gear at the Redwood Pump Station.

Need for Project

Each year pieces of equipment fail due to age and/or mechanical fault. This project will allow the funding to replace or overhaul equipment when needed.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Replacement or repair of equipment as potential failure is identified.

Estimated Total Project Cost: \$10,000/year as available

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects		125,000	75,000	10,000	85,000	10,000	30,000	125,000
Wastewater SDC's					0			0
					0			0
Total Resources					85,000			125,000

Requirements

Expenditures		125,000	35,000	50,000	85,000	10,000	30,000	125,000
Transfers/ Contingency					0			0
Ending Balance by Year	0	0	40,000	0	0	0	0	0
Total Requirements					85,000			125,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6200	Spaulding Industrial Park Wastewater Infrastructure Study
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Project Description

This project will evaluate and propose wastewater infrastructure for the Spaulding Industrial Park. Potential wastewater infrastructure would include a basic collection system, a new pump station and associated force main. The initial evaluation will be to determine the extent of the service area (in addition to the Industrial Park) to serve the eastern end of the urban growth boundary. The service area determination will be required to appropriately size the infrastructure.

Need for Project

Additional development in the eastern end of the urban growth boundary, both residential and industrial, will need to rely on a new pump station for sewer service.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Once the infrastructure components are properly sized and located, an estimated project cost to install can be developed to reflect required construction costs.

Estimated Total Project Cost: \$100,000 revised from \$2,500,000 to reflect study/evaluation only

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects		100,000	100,000		100,000			100,000
Wastewater SDC's					0			0
					0			0
Total Resources					100,000			100,000

Requirements

Expenditures		100,000	25,000	75,000	100,000			100,000
Transfers/ Contingency					0			0
Ending Balance by Year	0	0	75,000	0	0	0	0	0
Total Requirements					100,000			100,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6237	General Engineering Services
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Project Description

This project will fund the process to obtain a Wastewater Master Services Agreement for Professional Engineering and Permitting Services (MSA). With this MSA, a number of individual task orders will be assigned, negotiated and executed to undertake a variety of assignments on the City's wastewater facilities.

Need for Project

Given the nature of these individual assignments, it is desired for our MSA consultant to provide general engineering support and guidance for the overall wastewater program to develop the specific individual tasks.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

General support for Wastewater Fund (known and unknown).

Estimated Total Project Cost: \$20,000 per year as funds are available

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects				40,000	40,000	20,000	60,000	120,000
Wastewater SDC's					0			0
					0			0
Total Resources					40,000			120,000

Requirements

Expenditures				40,000	40,000	20,000	60,000	120,000
Transfers/ Contingency					0			0
Ending Balance by Year	0	0	0	0	0	0	0	0
Total Requirements					40,000			120,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6238	Effluent Mixing Zone Dye Tracer Study
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Project Description:

The wastewater treatment plant has a permitted effluent mixing zone in the Rogue River. The allowable mixing zone is that portion of the Rogue River contained within a band extending out 50 feet from the north bank and extending from a point 10 feet upstream of the effluent outfall to a point 300 feet downstream from the outfall. Dye will be injected into the effluent and samples will be collected over time in the river to confirm and calibrate the mixing zone model. The model will be used to determine dilution ratios within the mixing zone and evaluate the reasonable potential to exceed receiving water quality criteria in the Rogue River.

Need for Project

To meet NPDES permit renewal requirements.

Council Strategic Goal

Preserve and Enjoy our Natural Resources.

Objective 4: Comply with all NPDES permit requirements.

Future and Ongoing Costs

May require upgrades to treatment processes.

Estimated Total Project Cost: \$50,000

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects				50,000	50,000			50,000
Wastewater SDC's					0			0
					0			0
Total Resources					50,000			50,000

Requirements

Expenditures				50,000	50,000			50,000
Transfers/ Contingency					0			0
Ending Balance by Year	0							
Total Requirements					50,000			50,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6239	WRP Equipment Improvement
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Project Description

This is the replacement fund for miscellaneous equipment such as gas blender, aeration basin mixers, various pumps, compressors and motors.

Need for Project

Each year pieces of equipment fail due to age and/or mechanical failure. This project will allow the funding of replacement equipment as needed.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Evaluation and repair of unanticipated problems.

Estimated Total Project Cost: \$50,000 per year as funds are available

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects				50,000	50,000	50,000	150,000	250,000
Wastewater SDC's					0			0
					0			0
Total Resources					50,000			250,000

Requirements

Expenditures				50,000	50,000	50,000	150,000	250,000
Transfers/ Contingency					0			0
Ending Balance by Year	0	0	0	0	0	0	0	0
Total Requirements					50,000			250,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6240	Webster Pump Station No. 1 Rehab
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Project Description

This project will evaluate whether to replace or rehabilitate Webster Pump Station No. 1. The improvements will be designed to meet current industry standards. During the predesign effort, a determination will be made whether to construct a new pump station above ground or to rehabilitate the existing. This pump station is currently located below ground, within the Webster Road Right-of-Way at the Reinhart Sports Park.

Need for Project

Webster Pump Station No. 1 is currently capacity deficient. The pump station is approaching 50 years old and does not meet current service standards. The new pump station will be built to meet current industry standards.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Routine and periodic maintenance.

Estimated Total Project Cost: \$750,000

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects				750,000	750,000			750,000
Wastewater SDC's					0			0
					0			0
Total Resources					750,000			750,000

Requirements

Expenditures				750,000	750,000			750,000
Transfers/Contingency					0			0
Ending Balance by Year	0							
Total Requirements					750,000			750,000

Program: Utilities/Wastewater – Capital Construction

Project	SE6241	WRP SCADA System Evaluation
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Project Description

This project will evaluate the existing SCADA system hardware and software. The intent of the evaluation will be to determine to what extent existing PLC's can be migrated to a new software systems. New system hardware and software requirements will be identified.

Need for Project

The current SCADA system uses a Windows XP operating System. Microsoft will no longer be supporting Windows XP operating systems with security and technical support. Communications from some of the old PLC's may not work with the new Windows software. The SCADA system monitors various processes and equipment. Operations and Maintenance staff use the SCADA system to monitor and control various processes and equipment throughout the plant as well as collecting data for NPDES permit reporting purposes.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

After evaluation, a system upgrade/replacement will be initiated.

Estimated Total Project Cost: \$50,000

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects				50,000	50,000			50,000
Wastewater SDC's					0			0
					0			0
Total Resources					50,000			50,000

Requirements

Expenditures				50,000	50,000			50,000
Transfers/Contingency					0			0
Ending Balance by Year	0							
Total Requirements					50,000			50,000

Project Closed – FY 2013

Program: Utilities/Wastewater – Capital Construction

Project	SE4745	WRP/JO-GRO™ Equipment Improvement
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Project Description

This is the replacement fund for miscellaneous equipment such as gas blender, aeration basin mixers, various pumps, compressors and motors.

Need for Project

Each year pieces of equipment fail due to age and/or mechanical failure. The equipment audit identified various pieces of equipment which will need to be replaced over time. This project will allow the funding of replacement equipment when needed.



Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Evaluation and repair of unanticipated problems.

PROJECT TO CLOSE

Estimated Total Project Cost: \$50,000 per year as funds are available

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects	400,000	50,000	0		400,000			400,000
					0			0
					0			0
Total Resources					400,000			400,000

Requirements

Expenditures	290,487	88,689	109,513		400,000			400,000
Transfers/Contingency					0			0
Ending Balance by Year	109,513	0	0	0	0	0	0	0
Total Requirements					400,000			400,000

Project Closed – FY 2013

Program: Utilities/Wastewater – Capital Construction

Project	SE4960	JO-GRO™ Miscellaneous Upgrades
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Project Description

This project will provide a physical storm water barrier between the green waste and compost areas. Site paving needs to be repaired/replaced. Concrete will be evaluated as an alternative to asphalt.

Need for Project

Storm water sampling with a high e-coli count will penalize the City's WRP NPDES permit. Separation of the green waste area and the compost area will clarify where the e-coli is originating. Current site paving is failing.



Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs
Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Separation of green waste area and compost area **DID NOT** clarify origination of e.coli. Formal engineering analysis and recommendation is underway.

New project budget based upon JO-GRO™ closure; site cleanup and treatment pond abandonment.

Estimated Total Project Cost: \$429,000 revised from \$1,200,000 which was revised from \$479,000

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects	879,000	350,000	-450,000		429,000			429,000
Other	20				20			20
					0			0
Total Resources					429,020			429,020

Requirements

Expenditures	290,215	738,805	138,805		429,020			429,020
Transfers/ Contingency					0			0
Ending Balance by Year	588,805	0						
Total Requirements					429,020			429,020

Project Closed – FY 2013

Program: Utilities/Wastewater – Capital Construction

Project	SE5060	General Engineering
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Project Description

On November 2, 2010 the City of Grants Pass and Carollo Engineers, Inc. entered into a new, 3 year Wastewater Master Services Agreement for Professional Engineering and Permitting Services (MSA). With this MSA, a number of individual task orders will be assigned, negotiated and executed to undertake a variety of assignments on the City's wastewater facilities.

Need for Project

Given the nature of these individual assignments, it is desired for Carollo to provide general engineering support and guidance for the overall wastewater program to develop the specific individual tasks.

New NPDES permit evaluation/support costs are much greater than anticipated.

Council Strategic Goal

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

General support for Wastewater Fund (known and unknown).

PROJECT TO CLOSE

Original Estimated Project Cost: \$15,000/year

Revised Estimated Total Project Cost: ~~\$ 25,000/year~~
\$ 20,000 Wastewater Capital
~~\$ 5,000 RSSSD Capital~~

Resources

	Actual Through FY'13	FY'14 Adopted	FY'14 Revised	FY'15 Adopted	Through FY'15	FY'16 Projected	Future	Total Project
Wastewater Capital Projects	111,000	20,000	(30,000)		81,000			81,000
RSSSD Capital Project RS0000	10,000				10,000			10,000
					0			0
Total Resources					91,000			91,000

Requirements

Expenditures	74,314	44,904	16,686		91,000			91,000
Transfers/ Contingency					0			0
Ending Balance by Year	46,686	0	0	0	0	0	0	0
Total Requirements					91,000			91,000