
Program: Utilities/Water – Capital Construction

Services Delivered:

This activity includes planning, engineering, and all construction of major water system improvements. The water system includes the treatment plant, eight reservoirs, thirteen pump stations, and 180 miles of water mains. Major repairs and improvements to the water system are financed through this capital budget. The minor repairs to the system are financed through the operating activities.

This budget sets aside funds to provide major rehabilitation of the water treatment plant, pump stations, water storage reservoirs, and the distribution system.

FY'17 Anticipated Accomplishments & Corresponding Council Goal - Strategic Plan Item:

Maintain, Operate, and Expand our Infrastructure

Objective 1: Plan and develop infrastructure

Action 3: Complete water master plan.

- The Water Distribution Master Plan work has been initiated and will be completed in FY' 17.

Action 7: Water Distribution and Wastewater Collection - Continue pursuit of property acquisition for future reservoir and pump station sites.

- Opportunities will be evaluated as they become available.

Objective 2: Ensure water infrastructure needs are met

Action 1: Build new Water Plant (PAVE).

- Evaluate project delivery methods most applicable.

Action 2: Develop emergency water hook-up at City Hall well.

- Evaluate feasibility.

Action 3: Complete projects as part of small main replacement.

- Projects will be designed and constructed.

Action 4: Initiate the process to replace the Water Treatment Plant.

- The design of a new treatment facility will be initiated following the evaluation of project delivery methods.

Action 5: Complete the update to the Water Emergency Operations Plan.

- Plan is updated.

Action 6: Initiate the process of acquiring property for a new Water Treatment Plant.

- A property acquisition process is in place.

Program: Utilities/Water – Capital Construction

Budget Highlights:

The project listing shows resources across the columns. Columns show the “Actual resources through FY’ 15”; the re-assessed resource needs of projects using current data for the “Revised FY’ 16” column, guiding our “Adopted FY’ 17” and resources estimated “Through FY’ 17”. We have “Future Years” and “Total Project” columns for each project. Refer to the Capital Budget Book for more information on individual projects.

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.

FY’16 Activity Review:

- Continued work on water distribution system master plan.
- Continued work on the Small Main Replacement program.
- Continued work to obtain emergency water producing equipment.
- Continued work to obtain a portable generator for pump stations.
- Completed the update the water emergency operations plan.

Program: Utilities/Water – Capital Construction

ACTIVE CAPITAL PROJECT RESOURCES

	Actual Through FY'15	Revised FY'16	Adopted FY'17	Total Through FY'17	Future Years	Total Project
WA0000 Miscellaneous Water Projects - General (758)	657,547	(414,000)	18,000	261,547	(157,517)	104,030
WA4742 Meadow Wood Reservoir No. 16 - Site Purchase	285,000	65,000	0	350,000	0	350,000
WA4971 Meadow Wood Reservoir No. 16	0	0	0	0	4,000,000	4,000,000
WA5094 Water Distribution System Master Plan Update	200,000	50,000	0	250,000	0	250,000
WA5096 WTP Structural Repairs	500,000	75,000	75,000	650,000	300,000	950,000
WA6000 MSA Task Order #1	110,000	70,000	20,000	200,000	80,000	280,000
WA6058 Water System Security Projects	110,000	10,000	10,000	130,000	70,000	200,000
WA6059 Pump Station Repairs	100,000	25,000	25,000	150,000	100,000	250,000
WA6207 WTP Upgrade	2,460,000	3,100,000	3,165,000	8,725,000	47,475,000	56,200,000
WA6248 Purchase of Emergency Water Pump Stations	200,000	0	0	200,000	0	200,000
WA6249 Water Main Relocations	400,000	300,000	275,000	975,000	0	975,000
WA6250 Water Rate & SDC Study	70,000	0	0	70,000	0	70,000
WA6251 Purchase Portable Generator for Pump Station	75,000	0	50,000	125,000	0	125,000
WA6252 Arc Flash Study WA and SE	100,000	0	0	100,000	0	100,000
WA6253 Small Main Replacement	<u>100,000</u>	<u>350,000</u>	<u>430,000</u>	<u>880,000</u>	<u>220,000</u>	<u>1,100,000</u>
Total Projects	<u>5,367,547</u>	<u>3,631,000</u>	<u>4,068,000</u>	<u>13,066,547</u>	<u>52,087,483</u>	<u>65,154,030</u>
Miscellaneous Water Funds						
Miscellaneous Water Projects - SDC's (752)	852,436	(46,000)	(246,000)	560,436	12,000	572,436
Miscellaneous Water Projects - AFD's (755)	8,247	0	0	8,247	0	8,247
Miscellaneous Water Projects - LID's (759)	<u>12,581</u>	<u>0</u>	<u>0</u>	<u>12,581</u>	<u>0</u>	<u>12,581</u>
Total Miscellaneous Funds	<u>873,264</u>	<u>(46,000)</u>	<u>(246,000)</u>	<u>581,264</u>	<u>12,000</u>	<u>593,264</u>

CLOSED OR CANCELLED CAPITAL PROJECT RESOURCES

WA6001 Water Main Looping	5,000	(5,000)	0	0	0	0
WA6052 Reservoir No. 3 Upgrades	5,656,565	(22,253)	0	5,634,312	0	5,634,312
WA6254 Water Emergency Ops Plan Update	<u>50,000</u>	<u>0</u>	<u>0</u>	<u>50,000</u>	<u>0</u>	<u>50,000</u>
Total Closed Projects	<u>5,711,565</u>	<u>(27,253)</u>	<u>0</u>	<u>5,684,312</u>	<u>0</u>	<u>5,684,312</u>
Grand Total - All Projects	<u>11,952,376</u>	<u>3,557,747</u>	<u>3,822,000</u>	<u>19,332,123</u>	<u>52,099,483</u>	<u>71,431,606</u>

Program: Utilities/Water – Capital Construction

ACTIVE CAPITAL PROJECT SUMMARIES FOR FY'17

		Adopted FY'17 Beginning Fund Balance	Adopted FY'17 Revenue	Adopted FY'17 Capital Outlay	Adopted FY'17 Transfers	Adopted FY'17 Appropriated Fund Balance
WA0000	Miscellaneous Water Projects - General (758)	117,264	18,000	0	0	135,264
WA4742	Meadow Wood Reservoir No. 16 - Site Purchase	251,544	0	251,544	0	0
WA4971	Meadow Wood Reservoir No. 16	0	0	0	0	0
WA5094	Water Distribution System Master Plan Update	0	0	0	0	0
WA5096	WTP Structural Repairs	118,819	75,000	118,819	0	75,000
WA6000	MSA Task Order #1	21,954	20,000	41,954	0	0
WA6058	Water System Security Projects	3,532	10,000	13,532	0	0
WA6059	Pump Station Repairs	13,335	25,000	38,335	0	0
WA6207	WTP Upgrade	4,305,687	3,165,000	7,470,687	0	0
WA6248	Purchase of Emergency Water Pump Stations	0	0	0	0	0
WA6249	Water Main Relocations	50,023	275,000	325,023	0	0
WA6250	Water Rate & SDC Study	65,000	0	65,000	0	0
WA6251	Purchase Portable Generator for Pump Station	0	50,000	50,000	0	0
WA6252	Arc Flash Study WA and SE	60,000	0	60,000	0	0
WA6253	Small Main Replacement	<u>16,166</u>	<u>430,000</u>	<u>446,166</u>	<u>0</u>	<u>0</u>
	Total Projects	<u>5,023,324</u>	<u>4,068,000</u>	<u>8,881,060</u>	<u>0</u>	<u>210,264</u>
Miscellaneous Water Funds						
	Miscellaneous Water Projects - SDC's (752)	401,436	(246,000)	0	0	155,436
	Miscellaneous Water Projects - AFD's (755)	8,247	0	0	0	8,247
	Miscellaneous Water Projects - LID's (759)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total Miscellaneous Funds	<u>409,683</u>	<u>(246,000)</u>	<u>0</u>	<u>0</u>	<u>163,683</u>
	Grand Total - All Projects	<u>5,433,007</u>	<u>3,822,000</u>	<u>8,881,060</u>	<u>0</u>	<u>373,947</u>

Program: Utilities/Water – Capital Construction

Financial Summary

	ACTUAL FY'14 \$	ACTUAL FY'15 \$	BUDGET FY'16 \$	REVISED FY'16 \$	ADOPTED FY'17 \$	PROJECTED FY'18 \$
Beginning Fund Balance	<u>4,723,042</u>	<u>2,618,670</u>	<u>3,473,468</u>	<u>3,473,468</u>	<u>5,433,007</u>	<u>373,947</u>
Resources						
Development Charges	269,755	367,029	150,000	150,000	150,000	150,000
Investment Interest	23,282	24,910	14,000	14,000	14,000	10,000
Advance Finance Interest	250	1,121	0	0	0	0
SDC Loans	7,256	5,349	0	0	0	0
General Fund	100,000	150,000	100,000	100,000	130,000	0
Sewer/Transport. Projects	0	135,000	0	0	100,000	0
Water Fund	1,168,000	2,174,177	3,313,000	3,313,000	3,425,000	2,350,000
Advance Financing	10,253	4,882	3,000	3,000	3,000	3,000
Other Revenue	<u>0</u>	<u>246</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<i>Total Current Revenues</i>	<u><i>1,578,796</i></u>	<u><i>2,862,714</i></u>	<u><i>3,580,000</i></u>	<u><i>3,580,000</i></u>	<u><i>3,822,000</i></u>	<u><i>2,513,000</i></u>
Total Resources	<u>6,301,838</u>	<u>5,481,384</u>	<u>7,053,468</u>	<u>7,053,468</u>	<u>9,255,007</u>	<u>2,886,947</u>
Requirements						
Capital Outlay	<u>3,683,168</u>	<u>893,991</u>	<u>6,664,871</u>	<u>6,664,871</u>	<u>8,881,060</u>	<u>2,500,000</u>
<i>Subtotal Expenditures</i>	<u><i>3,683,168</i></u>	<u><i>893,991</i></u>	<u><i>6,664,871</i></u>	<u><i>6,664,871</i></u>	<u><i>8,881,060</i></u>	<u><i>2,500,000</i></u>
Appropriated Fund Balance	<u>2,618,670</u>	<u>4,587,393</u>	<u>388,597</u>	<u>388,597</u>	<u>373,947</u>	<u>386,947</u>
Total Requirements	<u>6,301,838</u>	<u>5,481,384</u>	<u>7,053,468</u>	<u>7,053,468</u>	<u>9,255,007</u>	<u>2,886,947</u>

Program: Utilities/Water – Capital Construction

Project	WA0000	Fund 758	Miscellaneous Water Projects
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Project Description

This project accounts for small miscellaneous projects, closed projects and projects that are in the process of starting up. Fund balances and miscellaneous expenditures that are not attributable to a specific project are accounted for in this project. Resources from a large variety of sources are distributed from this project to other active projects.

Need for Project

This project allows for tracking of fund balances and miscellaneous expenditures.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 1: Plan and develop infrastructure.

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

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	9,894,795	3,313,000	3,313,000	3,425,000	16,767,795	2,500,000	8,361,516	27,629,311
Water Funds to Projects	(12,068,923)	(3,745,000)	(3,740,000)	(3,420,000)	(19,363,923)	(2,500,000)	(8,535,000)	(30,398,923)
Advance Finance District	893,713	3,000	3,000	3,000	899,713	3,000	9,000	911,713
Investment Interest	1,249,797	10,000	10,000	10,000	1,269,797	10,000	30,000	1,309,797
Return: Lands & Bldgs & Transportation	440,800				440,800			440,800
Other	247,365				247,365			247,365
Total Resources					261,547			140,063

Requirements

Expenditures	126,283				126,283			126,283
Transfers					0			0
Ending Balance by Year	531,264	107,013	117,264	135,264	135,264	148,264	13,780	13,780
Total Requirements					261,547			140,063

Program: Utilities/Water – Capital Construction

Project	WA4742	Reservoir and Pump Station Site Purchases
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Project Description

This project would fund the purchase of land for future reservoir or pump station sites (i.e. reservoir Nos. 13 & 16, RCC pump station).

Need for Project

Land acquisition is required for the location of future, as well as replacement, reservoirs and pump stations. The sites must be located at the proper elevation and within a reasonable distance of the water system. There are very few undeveloped properties available that can meet the necessary criteria. Purchase in the near future will be necessary to avoid the need to condemn an already developed parcel at a greatly increased price.



Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs
Objective 1: Plan and develop infrastructure.

Future and Ongoing Costs

Engineering assessments, appraisals and acquisitions.

Revised Estimated Total Project Cost: \$350,000 (Revised from \$150,000 as other site acquisitions have been added)

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	122,000	65,000	65,000		187,000			187,000
Water SDC	163,000				163,000			163,000
Total Resources					350,000			350,000

Requirements

Expenditures	18,456	231,647	80,000	251,544	350,000			350,000
Transfers/ Contingency					0			0
Ending Balance by Year	266,544	0	251,544	0	0	0	0	0
Total Requirements					350,000			350,000

Program: Utilities/Water – Capital Construction

Project	WA4971	Meadow Wood Reservoir No. 16
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Project Description

This project will build a new 1.3 million gallon water reservoir as identified in the Water Distribution Master Plan.

Need for Project

The Water Distribution Master Plan calls for a new reservoir to serve Zone 2 customers in the southeast portion of the City. This project will accumulate the funds needed for the construction.



Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

Property acquisition will occur through project WA4742. Design and construct.

Estimated Total Project Cost: \$4,000,000 (Revised from \$1,575,000 with new master plan)

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects					0		3,000,000	3,000,000
Water SDCs (69%)					0		1,000,000	1,000,000
Total Resources					0			4,000,000

Requirements

Expenditures					0		4,000,000	4,000,000
Transfers/ Contingency					0			0
Ending Balance by Year	0	0						
Total Requirements					0			4,000,000

Program: Utilities/Water – Capital Construction

Project	WA5094	Water Distribution System Master Plan Update
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Project Description

This project will update the Water Distribution System Master Plan completed in 2001.

Need for Project

The Council is in the process of expanding the Urban Growth Boundary. Part of that process requires a review of the infrastructure needed to serve the new area. The Master Plan Update will identify infrastructure requirements and sizing to serve the enlarged Urban Growth Boundary. A condition assessment of all pump stations and reservoirs will also be conducted as part of the Master Plan Update.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 1: Plan and develop infrastructure.

Future and Ongoing Costs

Development of plan after UGB expansion.

Estimated Total Project Cost: \$250,000 (Revised from \$140,000 and original \$120,000 due to UGB delay)

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	200,000	50,000	50,000		250,000			250,000
Total Resources					250,000			250,000

Expenditures	109,524	108,613	140,476		250,000			250,000
Transfers/ Contingency					0			0
Ending Balance by Year	90,476	0						
Total Requirements					250,000			250,000

Program: Utilities/Water – Capital Construction

Project	WA5096	WTP 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 Treatment Plant. Included items are: intake structure and bank stabilization, stairways and landings for basin access, basin valve repairs/replacement, lab expansion, covered pipe storage, chemical storage upgrades and sedimentation basin entrance and egress ladders.



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 Treatment Plant and its supporting structures. In addition, many of the projects listed will bring current facilities into compliance with current OR-OSHA regulations and improve staff safety.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs
Objective 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

Evaluation and repair of deficiencies.

Estimated Total Project Cost: \$75,000/year as available (Revised from \$90,000/year)

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	500,000	75,000	75,000	75,000	650,000	75,000	225,000	950,000
Total Resources					650,000			950,000

Requirements

Expenditures	356,181	143,752	100,000	118,819	575,000	75,000	300,000	950,000
Transfers/Contingency					0			0
Ending Balance by Year	143,819	0	118,819	75,000	75,000	75,000	0	0
Total Requirements					650,000			950,000

Program: Utilities/Water – Capital Construction

Project	WA6000	MSA Task Order #1 (General Engineering)
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Project Description

In May 2008 the City of Grants Pass and Murray, Smith & Associates (MSA) entered into a new, 3 year Water Master Services Agreement for Professional Engineering and Permitting Services. In May 2013, a new 3 year Master Services Agreement with MSA was entered into. With this Agreement, a number of individual task orders will be assigned, negotiated and executed to undertake a variety of assignments on the City's water facilities.

Need for Project

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

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs
Objective 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

Development of new unidentified tasks.

Estimated Total Project Cost: \$20,000/year

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	110,000	70,000	70,000	20,000	200,000	20,000	60,000	280,000
Total Resources					200,000			280,000

Requirements

Expenditures	118,046	70,433	40,000	41,954	200,000	20,000	60,000	280,000
Transfers/ Contingency					0			0
Ending Balance by Year	-8,046	0	21,954	0	0	0	0	0
Total Requirements					200,000			280,000

Program: Utilities/Water – Capital Construction

Project	WA6058	Water System Security Projects
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Project Description

This project will install and/or upgrade system security at all water system facilities as needed/required. The first location for security improvements will be at the Water Treatment Plant.

Need for Project

Currently system security is in need of upgrade and standardization. This will be an ongoing project to upgrade security across the water system.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

Evaluation and upgrade of unidentified deficiencies.

Estimated Total Project Cost: \$10,000/year as available (Revised from \$20,000/year)

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	110,000	10,000	10,000	10,000	130,000	10,000	60,000	200,000
Total Resources					130,000			200,000

Requirements

Expenditures	61,468	17,792	55,000	13,532	130,000	10,000	60,000	200,000
Transfers/ Contingency					0			0
Ending Balance by Year	48,532	0	3,532	0	0	0	0	0
Total Requirements					130,000			200,000

Program: Utilities/Water – Capital Construction

Project	WA6059	Pump Station Repairs
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Project Description

This project will allow for miscellaneous repairs and or upgrades to the various pump stations located throughout the water system. Examples of such are pumps, motors, equipment replacement/refurbishment, control system upgrades, painting, etc.

Need for Project

This project will account for repair or upgrade to pump station facilities as problems are identified. Additionally, pumps/motors will be changed out over a period of time to allow standardization of spare parts.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

Evaluation and repair of unidentified deficiencies.

Estimated Total Project Cost: \$25,000/year as available

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	100,000	25,000	25,000	25,000	150,000	25,000	75,000	250,000
Total Resources					150,000			250,000

Requirements

Expenditures	61,665	50,548	50,000	38,335	150,000	25,000	75,000	250,000
Transfers/ Contingency					0			0
Ending Balance by Year	38,335	0	13,335	0	0	0	0	0
Total Requirements					150,000			250,000

Program: Utilities/Water – Capital Construction

Project	WA6207	WTP Upgrade
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Project Description

This project will begin accumulating resources for a new WTP. The first steps to be accomplished will be a siting study and property acquisition, pilot testing of processes/technologies and a public outreach program.

Need for Project

A Facility Plan Update was completed in 2014. This facility planning effort evaluated options for the future of the WTP. These options ranged from temporary repairs, to rebuilding on-site, to relocation of the plant. The final recommended option was to build a new plant at a new location.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

Once a siting study is complete and property purchased, final design of the new WTP will begin. It will take a minimum of 5 years to have the new WTP operational. The current estimated project cost is based upon the 2014 Facility Plan Update CIP.

Estimated Total Project Cost: \$56,200,000 (Revised from \$24,500,000 after Facility Plan Update)

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	2,060,000	3,000,000	2,900,000	2,765,000	7,725,000	2,000,000	5,400,000	15,125,000
Water SDC	400,000	200,000	200,000	400,000	1,000,000	150,000	925,000	2,075,000
Bond					0		39,000,000	39,000,000
Total Resources					8,725,000			56,200,000

Requirements

Expenditures	254,313	4,903,086	1,000,000	7,470,687	8,725,000	2,150,000	45,325,000	56,200,000
Transfers/ Contingency					0			0
Ending Balance by Year	2,205,687	0	4,305,687	0	0	0	0	0
Total Requirements					8,725,000			56,200,000

Program: Utilities/Water – Capital Construction

Project	WA6248	Purchase of Emergency Water Producing Equipment
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Project Description

This project will purchase equipment designed for production of potable water in the event of a catastrophic failure to the Water Treatment Plant. The purchased equipment will be portable and capable of providing a minimal supply of potable water.

Need for Project

This is intended to be an interim measure until such time as a new Water Treatment Plant is constructed and operational. The existing Plant is at risk of partial or catastrophic failure.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

Storage and maintenance of equipment and supplies.

Estimated Total Project Cost: \$200,000

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	200,000				200,000			200,000
General Fund – Policy & Legislation					0			0
Total Resources					200,000			200,000

Requirements

Expenditures	19,796	150,000	180,204		200,000			200,000
Transfers/ Contingency					0			0
Ending Balance by Year	180,204	0						
Total Requirements					200,000			200,000

Program: Utilities/Water – Capital Construction

Project	WA6249	Water Main Relocations
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Project Description

This project will evaluate the potential for relocation and abandonment of old water mains located under buildings or in difficult access areas. One old sewer main will need to be replaced to facilitate new water main.

Need for Project

Old water mains located beneath buildings or in difficult to access/maintain areas can cause considerable damage to private property if they fail.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

After evaluation, this project will accumulate resources for remediation.

Estimated Total Project Cost: \$975,000 (Revised from \$500,000 after initial evaluation)

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	200,000	100,000	200,000	175,000	575,000			575,000
General Program Ops-Policy & Legislation	100,000	100,000	100,000		200,000			200,000
Wastewater Ops	100,000			100,000	200,000			200,000
Total Resources					975,000			975,000

Requirements

Expenditures	49,977	500,000	600,000	325,023	975,000			975,000
Transfers/Contingency					0			0
Ending Balance by Year	350,023	0	50,023	0	0	0	0	0
Total Requirements					975,000			975,000

Program: Utilities/Water – Capital Construction

Project	WA6250	Water Rate & SDC Study
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Project Description

This project will evaluate and recommend appropriate service area water system rates and System Development Charges (SDC) after the Water System Master Plans are all updated.

Need for Project

Once the Urban Growth Boundary is adjusted, water system master plans will need to be updated. As part of the plan updates, new Capital Improvement Plans (CIPs) will be developed. With new CIPs, water rate and SDC methodology will need to be updated to ensure adequacy. Accurate methodology helps to ensure new system users pay an appropriate share of costs.

Council Strategic Goal

Provide Cooperative, Shared Leadership Involving Council, Staff and Community

Objective 1: Evaluate/ensure financial stability of Utility Funds.

Future and Ongoing Costs

Not applicable

Estimated Total Project Cost: \$70,000

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	70,000				70,000			70,000
Water SDC					0			0
Total Resources					70,000			70,000

Requirements

Expenditures		35,000	5,000	65,000	70,000			70,000
Transfers/ Contingency					0			0
Ending Balance by Year	70,000	0	65,000	0	0	0	0	0
Total Requirements					70,000			70,000

Program: Utilities/Water – Capital Construction

Project	WA6251	Purchase Portable Generator for Pump Stations
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Project Description

Purchase a portable generator for use at remote pump station sites, which do not have emergency power generators. Some of the pump station sites require modifications to current configurations to adapt to the new generator.

Need for Project

Existing portable generator has failed and requires replacement.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

Routine and periodic maintenance.

Estimated Total Project Cost: \$125,000 revised from \$75,000 due to pump station configurations

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	75,000			50,000	125,000			125,000
Total Resources					125,000			125,000

Requirements

Expenditures		10,000	75,000	50,000	125,000			125,000
Transfers/ Contingency					0			0
Ending Balance by Year	75,000	0						
Total Requirements					125,000			125,000

Program: Utilities/Water – Capital Construction

Project	WA6252	Arc Flash Study WA and SE
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Project Description

This project will implement an arc flash hazard program to supplement/enhance our existing electrical safety program and provide additional safety measures for our employees. The project will complete an arc flash study at the Water and Wastewater Plants, as well as at the remote facilities. The intent is to label all electrical equipment with OR-OSHA compliant labels in regards to arc flash.

Need for Project

To provide compliance with OR-OSHA mandates.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs

Objective 2: Ensure water infrastructure needs are met.

Objective 3: Ensure sewer infrastructure needs are met.

Future and Ongoing Costs

Normal and routine maintenance.

Estimated Total Project Cost: \$100,000

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	65,000				65,000			65,000
Wastewater Ops	35,000				35,000			35,000
Total Resources					100,000			100,000

Requirements

Expenditures		90,000	40,000	60,000	100,000			100,000
Transfers/ Contingency					0			0
Ending Balance by Year	100,000	0	60,000	0	0	0	0	0
Total Requirements					100,000			100,000

Program: Utilities/Water – Capital Construction

Project	WA6253	Small Main Replacement
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Project Description

This is an ongoing program to replace old, undersized cast iron water mains. Identified water mains to be replaced are listed below:

SW Short Street
 NW Lynwood Place
 SE Waterman
 SE Gene
 NW Prospect Avenue between Manzanita and Bellevue
 NW Bellevue Place – Highland to Kinny and Kinny to Prospect
 SW I Street between Leonard and Western

Need for Project

The mains to be replaced do not meet adopted water service standards. Fire flow capacity is not provided and there is a relatively high rate of leak repairs. The pipes are typically clogged with rust or hardness deposits producing low delivery pressures during use. Where possible, the mains are replaced prior to scheduled street overlays.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs
 Objective 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

Periodic and routine maintenance.

Estimated Total Project Cost: \$1,100,000 (Revised from \$355,000)

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	50,000	350,000	350,000	300,000	700,000	220,000		920,000
General Fund- Policy & Legislation	50,000			130,000	180,000			180,000
Total Resources					880,000			1,100,000

Requirements

Expenditures	108,834	350,000	325,000	446,166	880,000	220,000		1,100,000
Transfers/ Contingency					0			0
Ending Balance by Year	-8,834	0	16,166	0	0	0	0	0
Total Requirements					880,000			1,100,000

Project Closed – FY 2016

Program: Utilities/Water – Capital Construction

Project	WA6001	Water Main Looping
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Project Description

This project accumulates funds for the installation of short segments of public water mains (less than 400 feet in length) at various locations to complete water system loops.

Need for Project

Looping of distribution system lines increase fire flow, establish system redundancy and improve water quality. Several areas exist within the distribution system where the installation of short runs of piping will complete system loops. The installation of these lines is unlikely to occur due to development alone.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs
 Objective 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

Routine periodic maintenance.

Estimated Total Project Cost: \$725,000 at \$20,000/year as available

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	5,000		(5,000)		0			0
General Fund- Policy & Legislation					0			0
Total Resources					0			0

Requirements

Expenditures		4,000			0			0
Transfers/Contingency					0			0
Ending Balance by Year	5,000	0						
Total Requirements					0			0

Project Closed – FY 2016

Program: Utilities/Water – Capital Construction

Project	WA6052	Reservoir No. 3 Upgrades
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Project Description

This project will evaluate and address structural deficiencies identified during access hatch replacement.

Need for Project

Reservoir roof concrete was found badly deteriorated (exposed rebar) during hatch replacement. A thorough structural inspection with recommendations for repair or replacement will be performed.



Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs.

Objective 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

After structural assessment, it was determined Reservoir No. 3 would require in-place replacement. Next steps will be design and construction of new 5 MG reservoir.

PROJECT COMPLETE

Original Estimated Total Project Cost: **\$1,500,000** (Revised to reflect replacement of reservoir)

Revised Estimated Total Project Cost: \$6,500,000

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	48,000		(22,253)		25,747			25,747
Water Bond	4,933,565				4,933,565			4,933,565
Water SDCs	425,000				425,000			425,000
General Fund – Policy & Legislation	250,000				250,000			250,000
Total Resources					5,634,312			5,634,312

Requirements

Expenditures	5,634,312				5,634,312			5,634,312
Transfers					0			0
Ending Balance by Year	22,253	0	0	0	0	0	0	0
Total Requirements					5,634,312			5,634,312

Project Closed – FY 2016

Program: Utilities/Water – Capital Construction

Project	WA6254	Water Emergency Operations Plan Update
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Project Description

This project will update the Emergency Operations Plan to reflect operations at the Water Treatment Plant in the event of a catastrophic failure of the existing Plant.

Need for Project

This is intended to be an interim measure until such time as a new Water Treatment Plant is constructed and operational. The existing Plant is at risk of partial or catastrophic failure.

Council Strategic Goal

Maintain, Operate and Expand our Infrastructure to Meet Community Needs
 Objective 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

Periodic updates to reflect system changes.

Estimated Total Project Cost: \$50,000

Resources

	Actual Through FY'15	FY'16 Adopted	FY'16 Revised	FY'17 Adopted	Through FY'17	FY'18 Projected	Future	Total Project
Water Capital Projects	50,000				50,000			50,000
General Fund- Policy & Legislation					0			0
Total Resources					50,000			50,000

Requirements

Expenditures	30,411		19,589		50,000			50,000
Transfers/ Contingency					0			0
Ending Balance by Year	19,589	0						
Total Requirements					50,000			50,000

