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

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

Objective 1: Plan and develop infrastructure

Action 3: Complete water master plan.

- The Water Distribution Master Plan work has been initiated and should be completed in FY' 16.

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.

Action 8: Water Distribution and Wastewater Collection – Evaluate relocation or abandonment of old water mains that could cause considerable damage to private property if they failed.

- Several small projects will be undertaken to abandon water mains located under private property.

Objective 2: Ensure water infrastructure needs are met

Action 1: Acquire a portable generator for remote pump stations that do not have a stationary generator onsite.

- Acquisition of a portable generator is being pursued.

Action 2: Complete projects as part of small main replacement.

- Projects will be designed and constructed.

Action 3: Initiate the process to replace the Water Treatment Plant.

- The design of a new treatment facility will be initiated following the completion of the Strategic Plan.

Action 4: Complete the update to the Water Emergency Operations Plan.

- The plan will be completed.

Action 5: Initiate the process of acquiring property for a new Water Treatment Plant.

- A property acquisition process is being developed.

Action 6: Complete a flow analysis of the Rogue River adjacent to the Water Treatment intake structure.

- The flow analysis will be completed.

Program: Utilities/Water – Capital Construction

Budget Highlights:

The project listing shows resources across the columns. Columns show the “Actual resources through FY’ 14”; the re-assessed resource needs of projects using current data for the “Revised FY’ 15” column, guiding our “Adopted FY’ 16” and resources estimated “Through FY’ 16”. 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.

FY’15 Activity Review:

- Began work on Water Distribution System Master Plan.
- Completed construction of replacement of Reservoir No. 3.
- Continued work on the Small Main Replacement Program.
- Completed work to install a backup power generator for the Water Treatment Plant.
- Completed negotiations with ODFW and OWRD on time extensions for the development of the City’s municipal water rights.
- Completed construction of Starlite PRV vault (Starlite pump station upgrade).
- Began work to obtain emergency water producing equipment.
- Began work to obtain a portable generator for pump stations.
- Began work to update the Water Emergency Operations Plan.

Program: Utilities/Water – Capital Construction

ACTIVE CAPITAL PROJECT RESOURCES

	Actual Through FY'14	Revised FY'15	Adopted FY'16	Total Through FY'16	Future Years	Total Project
WA0000 Miscellaneous Water Projects - SDC's (752)	553,585	179,000	(46,000)	686,585	(1,184,000)	(497,415)
WA0000 Miscellaneous Water Projects - AFD's (755)	2,226	(2,226)	0	0	0	0
WA0000 Miscellaneous Water Projects - General (758)	591,138	39,903	(419,000)	212,041	(2,663,000)	(2,450,959)
WA0000 Miscellaneous Water Projects - LID's (759)	12,581	0	0	12,581	0	12,581
WA4742 Meadow Wood Reservoir No. 16 - Site Purchase	185,000	100,000	65,000	350,000	0	350,000
WA4971 Meadow Wood Reservoir No. 16	0	0	0	0	1,575,000	1,575,000
WA5094 Water Distribution System Master Plan Update	140,000	60,000	50,000	250,000	0	250,000
WA5096 WTP Structural Repairs	425,000	75,000	75,000	575,000	300,000	875,000
WA6000 MSA Task Order #1	90,000	20,000	70,000	180,000	80,000	260,000
WA6001 Water Main Looping	5,000	0	0	5,000	720,000	725,000
WA6058 Water System Security Projects	60,000	50,000	10,000	120,000	70,000	190,000
WA6059 Pump Station Repairs	75,000	25,000	25,000	125,000	100,000	225,000
WA6207 WTP Upgrade	660,000	1,800,000	3,200,000	5,660,000	50,540,000	56,200,000
WA6248 Purchase of Emergency Water Pump	0	200,000	0	200,000	0	200,000
WA6249 Water Main Relocations	0	400,000	200,000	600,000	0	600,000
WA6250 Water Rate & SDC Study	0	70,000	0	70,000	0	70,000
WA6251 Purchase Portable Generator for Pump	0	75,000	0	75,000	0	75,000
WA6252 Arc Flash Study WA and SE	0	100,000	0	100,000	0	100,000
WA6253 Small Main Replacement	0	100,000	350,000	450,000	250,000	700,000
WA6254 Water Emergency Ops Plan Update	<u>0</u>	<u>50,000</u>	<u>0</u>	<u>50,000</u>	<u>0</u>	<u>50,000</u>
Total Projects	<u>2,799,530</u>	<u>3,341,677</u>	<u>3,580,000</u>	<u>9,721,207</u>	<u>49,788,000</u>	<u>59,509,207</u>

CLOSED OR CANCELLED CAPITAL PROJECT RESOURCES

WA4526 Starlite Pump Station Upgrade	245,000	(7,000)	0	238,000	0	238,000
WA4966 Water Conservation & Mgmt Plan Update	70,000	0	0	70,000	0	70,000
WA5028 Water Main on Private Property	75,000	(4,000)	0	71,000	0	71,000
WA6052 Reservoir No. 3 Upgrades	6,231,565	(575,000)	0	5,656,565	0	5,656,565
WA6122 WTP Emergency Generator	275,000	20,000	0	295,000	0	295,000
WA6206 Reservoir No. 4 Hatch Repairs	<u>50,000</u>	<u>(50,000)</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Closed Projects	<u>6,946,565</u>	<u>(616,000)</u>	<u>0</u>	<u>6,330,565</u>	<u>0</u>	<u>6,330,565</u>
Grand Total - All Projects	<u>9,746,095</u>	<u>2,725,677</u>	<u>3,580,000</u>	<u>16,051,772</u>	<u>49,788,000</u>	<u>65,839,772</u>

Program: Utilities/Water – Capital Construction

ACTIVE CAPITAL PROJECT SUMMARIES FOR FY'16

	Adopted FY'16 Beginning Fund Balance	Adopted FY'16 Revenue	Adopted FY'16 Capital Outlay	Adopted FY'16 Transfers	Adopted FY'16 Appropriated Fund Balance
WA0000 Miscellaneous Water Projects - SDC's (752)	327,585	(46,000)	0	0	281,585
WA0000 Miscellaneous Water Projects - AFD's (755)	0	0	0	0	0
WA0000 Miscellaneous Water Projects - General (758)	526,012	(419,000)	0	0	107,012
WA0000 Miscellaneous Water Projects - LID's (759)	0	0	0	0	0
WA4742 Meadow Wood Reservoir No. 16 - Site Purchase	166,647	65,000	231,647	0	0
WA4971 Meadow Wood Reservoir No. 16	0	0	0	0	0
WA5094 Water Distribution System Master Plan Update	58,613	50,000	108,613	0	0
WA5096 WTP Structural Repairs	68,752	75,000	143,752	0	0
WA6000 MSA Task Order #1	433	70,000	70,433	0	0
WA6001 Water Main Looping	4,000	0	4,000	0	0
WA6058 Water System Security Projects	7,792	10,000	17,792	0	0
WA6059 Pump Station Repairs	25,548	25,000	50,548	0	0
WA6207 WTP Upgrade	1,703,086	3,200,000	4,903,086	0	0
WA6248 Purchase of Emergency Water Pump Stations	150,000	0	150,000	0	0
WA6249 Water Main Relocations	300,000	200,000	500,000	0	0
WA6250 Water Rate & SDC Study	35,000	0	35,000	0	0
WA6251 Purchase Portable Generator for Pump Station	10,000	0	10,000	0	0
WA6252 Arc Flash Study WA and SE	90,000	0	90,000	0	0
WA6253 Small Main Replacement	0	350,000	350,000	0	0
WA6254 Water Emergency Ops Plan Update	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Projects	<u>3,473,468</u>	<u>3,580,000</u>	<u>6,664,871</u>	<u>0</u>	<u>388,597</u>

Program: Utilities/Water – Capital Construction

Financial Summary

	ACTUAL FY'13 \$	ACTUAL FY'14 \$	BUDGET FY'15 \$	REVISED FY'15 \$	ADOPTED FY'16 \$	PROJECTED FY'17 \$
Beginning Fund Balance	<u>2,100,129</u>	<u>4,709,261</u>	<u>1,229,391</u>	<u>1,229,391</u>	<u>3,473,468</u>	<u>388,597</u>
Resources						
Development Charges	246,079	269,756	150,000	150,000	150,000	150,000
Investment Interest	18,641	23,282	14,000	14,000	14,000	14,000
Advance Finance Interest	1	250	0	0	0	0
SDC Loans	6,559	7,256	0	0	0	0
General Fund	150,000	100,000	150,000	150,000	100,000	160,000
Sewer/Transport. Projects	0	0	135,000	135,000	0	0
Water Fund	394,327	1,168,000	2,174,177	2,174,177	3,313,000	2,460,000
Advance Financing	18,984	10,253	20,000	20,000	3,000	3,000
Other Revenue	<u>5,035,678</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<i>Total Current Revenues</i>	<u><i>5,870,269</i></u>	<u><i>1,578,797</i></u>	<u><i>2,643,177</i></u>	<u><i>2,643,177</i></u>	<u><i>3,580,000</i></u>	<u><i>2,787,000</i></u>
Total Resources	<u>7,970,398</u>	<u>6,288,058</u>	<u>3,872,568</u>	<u>3,872,568</u>	<u>7,053,468</u>	<u>3,175,597</u>
Requirements						
Capital Outlay	<u>3,261,137</u>	<u>3,683,168</u>	<u>3,606,395</u>	<u>3,606,395</u>	<u>6,664,871</u>	<u>2,770,000</u>
<i>Subtotal Expenditures</i>	<u><i>3,261,137</i></u>	<u><i>3,683,168</i></u>	<u><i>3,606,395</i></u>	<u><i>3,606,395</i></u>	<u><i>6,664,871</i></u>	<u><i>2,770,000</i></u>
Appropriated Fund Balance	<u>4,709,261</u>	<u>2,604,890</u>	<u>266,173</u>	<u>266,173</u>	<u>388,597</u>	<u>405,597</u>
Total Requirements	<u>7,970,398</u>	<u>6,288,058</u>	<u>3,872,568</u>	<u>3,872,568</u>	<u>7,053,468</u>	<u>3,175,597</u>

Program: Utilities/Water – Capital Construction

Project	WA0000	Fund 752	Water System Development Charges
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Project Description

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

Need for Project

Since the establishment of the Water 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'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water SDC's	4,885,290	150,000	250,000	150,000	5,285,290	150,000	450,000	5,885,290
Transfers To Projects	(4,469,500)	(75,000)	(75,000)	(200,000)	(4,744,500)	(150,000)	(1,650,000)	(6,544,500)
Investment Interest	137,795	4,000	4,000	4,000	145,795	4,000	12,000	161,795
Total Resources					686,585			(497,415)

Requirements

Expenditures					0			0
Transfers/Contingency	405,000				405,000			405,000
Ending Balance by Year	148,585	103,929	327,585	281,585	281,585	285,585	(902,415)	(902,415)
Total Requirements					686,585			(497,415)

Program: Utilities/Water – Capital Construction

Project	WA0000	Fund 755 Water Advanced Financing
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Project Description

This project is used by our accounting function to account for all funds reimbursed to the water 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'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects AFD's	865,830	20,000	2,500	3,000	871,330	3,000	9,000	883,330
AFD's to projects	(893,713)	(20,000)	(4,726)	(3,000)	(901,439)	(3,000)	(9,000)	(913,439)
Investment Interest	30,109				30,109			30,109
Total Resources					0			0

Requirements

Expenditures					0			0
Transfers/ Contingency					0			0
Ending Balance by Year	2,226	2,946	0	0	0	0	0	0
Total Requirements					0			0

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.

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

Resources

	Actual Through FY'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	7,720,618	2,174,177	2,174,177	3,313,000	13,207,795	2,460,000	4,500,000	20,167,795
Water Funds to Projects	(9,937,489)	(2,495,000)	(2,149,000)	(3,745,000)	(15,831,489)	(2,480,000)	(7,195,000)	(25,506,489)
Advance Finance District	893,713	20,000	4,726	3,000	901,439	3,000	9,000	913,439
Investment Interest	1,226,378	10,000	10,000	10,000	1,246,378	10,000	30,000	1,286,378
Return:Lands & Bldgs & Transportation	440,800				440,800			440,800
Other	247,118				247,118			247,118
Total Resources					212,041			(2,450,959)

Requirements

Expenditures	105,028				105,028			105,028
Transfers					0			0
Ending Balance by Year	486,110	159,298	526,013	107,013	107,013	100,013	(2,555,987)	(2,555,987)
Total Requirements					212,041			(2,450,959)

Program: Utilities/Water – Capital Construction

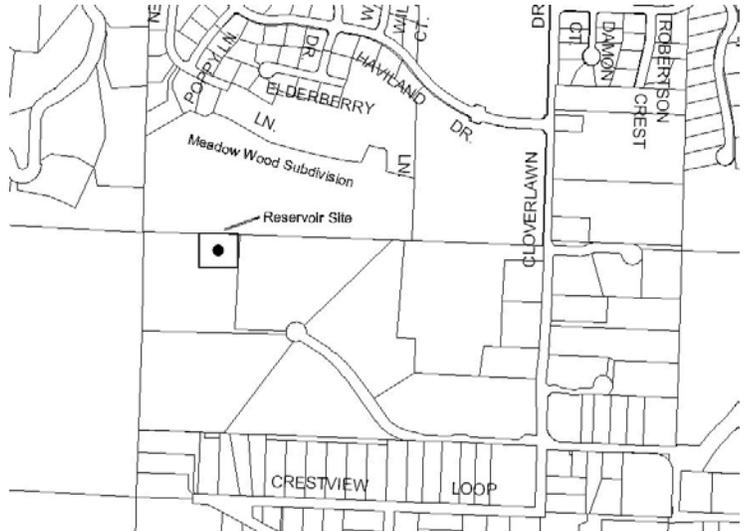
Project	WA4742	Reservoir and Pump Station Site Purchases
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Project Description

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 2: Ensure water infrastructure needs are met.

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'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	97,000	25,000	25,000	65,000	187,000			187,000
Water SDC	88,000	75,000	75,000		163,000			163,000
Total Resources					350,000			350,000

Requirements

Expenditures	18,353	207,873	100,000	231,647	350,000			350,000
Transfers/ Contingency					0			0
Ending Balance by Year	166,647	0	166,647	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 600,000 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: \$1,575,000 (Revised from \$1,050,000)

Resources

	Actual Through FY'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects					0		925,000	925,000
Water SDCs (42%)					0		650,000	650,000
					0			0
Total Resources					0			1,575,000

Requirements

Expenditures					0		1,575,000	1,575,000
Transfers/Contingency					0			0
Ending Balance by Year	0	0	0	0	0	0	0	0
Total Requirements					0			1,575,000

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 2: Ensure water infrastructure needs are met.

Future and Ongoing Costs

Development of plan after UGB determined.

Estimated Total Project Cost: \$200,000 (Revised from \$140,000 and original \$120,000 due to UGB delay)

Resources

	Actual Through FY'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	140,000	60,000	60,000	50,000	250,000			250,000
					0			0
					0			0
Total Resources					250,000			250,000

Expenditures	16,387	173,613	125,000	108,613	250,000			250,000
Transfers/ Contingency					0			0
Ending Balance by Year	123,613	0	58,613	0	0	0	0	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, 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'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	425,000	75,000	75,000	75,000	575,000	75,000	225,000	875,000
					0			0
					0			0
Total Resources					575,000			875,000

Requirements

Expenditures	306,248	112,539	125,000	143,752	575,000	75,000	225,000	875,000
Transfers/ Contingency					0			0
Ending Balance by Year	118,752	0	68,752	0	0	0	0	0
Total Requirements					575,000			875,000

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'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	90,000	20,000	20,000	70,000	180,000	20,000	60,000	260,000
					0			0
					0			0
Total Resources					180,000			260,000

Requirements

Expenditures	81,567	28,370	28,000	70,433	180,000	20,000	60,000	260,000
Transfers/ Contingency					0			0
Ending Balance by Year	8,433	0	433	0	0	0	0	0
Total Requirements					180,000			260,000

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'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	5,000				5,000		720,000	725,000
General Fund					0			0
					0			0
Total Resources					5,000			725,000

Requirements

Expenditures		5,000	1,000	4,000	5,000		720,000	725,000
Transfers/ Contingency					0			0
Ending Balance by Year	5,000	0	4,000	0	0	0	0	0
Total Requirements					5,000			725,000

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'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	60,000	10,000	50,000	10,000	120,000	10,000	60,000	190,000
					0			0
					0			0
Total Resources					120,000			190,000

Requirements

Expenditures	52,208	11,867	50,000	17,792	120,000	10,000	60,000	190,000
Transfers/ Contingency					0			0
Ending Balance by Year	7,792	0	7,792	0	0	0	0	0
Total Requirements					120,000			190,000

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'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	75,000	10,000	25,000	25,000	125,000	25,000	75,000	225,000
					0			0
					0			0
Total Resources					125,000			225,000

Requirements

Expenditures	24,452	25,000	50,000	50,548	125,000	25,000	75,000	225,000
Transfers/ Contingency					0			0
Ending Balance by Year	50,548	0	25,548	0	0	0	0	0
Total Requirements					125,000			225,000

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 (if necessary), 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'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	535,000	1,525,000	1,525,000	3,000,000	5,060,000	2,350,000	5,040,000	12,450,000
Water SDC	125,000	0	275,000	200,000	600,000	150,000	1,000,000	1,750,000
Bond					0		42,000,000	42,000,000
Total Resources					5,660,000			56,200,000

Requirements

Expenditures	6,914	1,985,000	750,000	4,903,086	5,660,000	2,500,000	48,040,000	56,200,000
Transfers/ Contingency					0			0
Ending Balance by Year	653,086	0	1,703,086	0	0	0	0	0
Total Requirements					5,660,000			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'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects		200,000	200,000		200,000			200,000
General Fund					0			0
					0			0
Total Resources					200,000			200,000

Requirements

Expenditures		200,000	50,000	150,000	200,000			200,000
Transfers/ Contingency					0			0
Ending Balance by Year	0	0	150,000	0	0	0	0	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 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: \$600,000 (Revised from \$500,000 after initial evaluation)

Resources

	Actual Through FY'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects		100,000	200,000	100,000	300,000			300,000
General Program Ops-Policy & Legislation		100,000	100,000	100,000	200,000			200,000
Wastewater Ops		100,000	100,000		100,000			100,000
Total Resources					600,000			600,000

Requirements

Expenditures		300,000	100,000	500,000	600,000			600,000
Transfers/Contingency					0			0
Ending Balance by Year	0	0	300,000	0	0	0	0	0
Total Requirements					600,000			600,000

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

Maintain, Operate and Expand Our Infrastructure to Meet Community Needs

Objective 2: Ensure water infrastructure needs are met.

Estimated Total Project Cost: \$70,000

Resources

	Actual Through FY'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects		70,000	70,000		70,000			70,000
Water SDC					0			0
					0			0
Total Resources					70,000			70,000

Requirements

Expenditures		70,000	35,000	35,000	70,000			70,000
Transfers/ Contingency					0			0
Ending Balance by Year	0	0	35,000	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.

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: \$75,000

Resources

	Actual Through FY'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects		75,000	75,000		75,000			75,000
					0			0
					0			0
Total Resources					75,000			75,000

Requirements

Expenditures		75,000	65,000	10,000	75,000			75,000
Transfers/ Contingency					0			0
Ending Balance by Year	0	0	10,000	0	0	0	0	0
Total Requirements					75,000			75,000

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

Future and Ongoing Costs

Normal and routine maintenance.

Estimated Total Project Cost: \$100,000

Resources

	Actual Through FY'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects		65,000	65,000		65,000			65,000
Wastewater Ops		35,000	35,000		35,000			35,000
					0			0
Total Resources					100,000			100,000

Requirements

Expenditures		100,000	10,000	90,000	100,000			100,000
Transfers/ Contingency					0			0
Ending Balance by Year	0	0	90,000	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
 SW I Street between Leonard and Western
 NW Lynwood Place
 NW Prospect Avenue between Manzanita and Bellevue
 NW Bellevue Place between Kinny and Prospect

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.

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: \$700,000 (Revised from \$355,000)

Resources

	Actual Through FY'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects		50,000	50,000	350,000	400,000		90,000	490,000
General Fund		50,000	50,000		50,000	160,000		210,000
					0			0
Total Resources					450,000			700,000

Requirements

Expenditures		100,000	100,000	350,000	450,000	160,000	90,000	700,000
Transfers/ Contingency					0			0
Ending Balance by Year	0	0	0	0	0	0	0	0
Total Requirements					450,000			700,000

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'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects		50,000	50,000		50,000			50,000
General Fund					0			0
					0			0
Total Resources					50,000			50,000

Requirements

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

Project Closed – FY 2015

Program: Utilities/Water – Capital Construction

Project	WA4526	Starlite Pump Station Upgrade
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Project Description

Originally this project was to upgrade pumps and install a backup emergency power generator in the Starlite Pump Station. After a pre-design assessment, a new approach was identified – the installation of a pressure reducing station to allow flow between Starlite and Laurelridge pump stations in cases of emergency.



Need for Project

This project will reliably provide fire flows between Starlite Pump Station and Laurelridge pump station service areas.

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:

Final design and construction of improvements.

PROJECT COMPLETE

Original estimate of \$210,000 redefined after completion of pre-design.

Estimated Total Project Cost: \$245,000

Resources

	Actual Through FY'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	245,000		(7,000)		238,000			238,000
					0			0
					0			0
Total Resources					238,000			238,000

Requirements

Expenditures	225,744		12,256		238,000			238,000
Transfers/ Contingency					0			0
Ending Balance by Year	19,256	0	0	0	0	0	0	0
Total Requirements					238,000			238,000

Project Closed – FY 2015

Program: Utilities/Water – Capital Construction

Project	WA4966	Water Management and Conservation Plan Update
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Project Description

This project will update the City’s Water Management and Conservation Plan (WMCP). The WMCP was adopted in February 2003 with the provision it would be updated and resubmitted to the Oregon Water Resources Department within 5 years of approval.



Need for Project

The WMCP is used to identify and analyze water supply and demand issues facing the City. The Plan was submitted as Water Resources rules were being changed. The plan must now be updated to reflect current policy and resubmitted for approval. Completing the WMCP is a condition of our water rights permits. Satisfying the permit conditions is a prerequisite to the currently on-going water rights extension process.

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

Water rights extension process.

Original estimate of \$80,000 redefined to \$50,000. After the water rights extension process was added back in, new estimated total was derived.

PROJECT COMPLETE

Estimated Total Project Cost: \$80,000 (Revised from \$70,000)

Resources

	Actual Through FY'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	70,000	10,000	0		70,000			70,000
					0			0
					0			0
Total Resources					70,000			70,000

Requirements

Expenditures	65,634	10,000	4,366		70,000			70,000
Transfers/ Contingency					0			0
Ending Balance by Year	4,366	0	0	0	0	0	0	0
Total Requirements					70,000			70,000

Project Closed – FY 2015

Program: Utilities/Water – Capital Construction

Project	WA 5028	Water Main in Private Property
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Project Description

This project will replace the water main through private property with a line in the public right of way.

Need for Project

The public water main south of “F” Street between Beacon and the Parkway is located under existing buildings. This makes it very difficult to manage the line and protect the private property. This project will move that line into the road right of way.



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.

PROJECT COMPLETE

Estimated Total Project Cost: \$ 75,000 (Revised from \$50,000)

Resources

	Actual Through FY'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	75,000		(4,000)		71,000			71,000
					0			0
					0			0
Total Resources					71,000			71,000

Requirements

Expenditures	65,819		5,181		71,000			71,000
Transfers/Contingency					0			0
Ending Balance by Year	9,181	0						
Total Requirements					71,000			71,000

Project Closed – FY 2015

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'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	348,000	150,000	(300,000)		48,000			48,000
Water Bond	4,933,565				4,933,565			4,933,565
Water SDCs	700,000		(275,000)		425,000			425,000
General Fund – Policy & Legislation	250,000				250,000			250,000
Total Resources					5,656,565			5,656,565

Requirements

Expenditures	5,601,519	152,133	55,046		5,656,565			5,656,565
Transfers					0			0
Ending Balance by Year	630,046	0	0	0	0	0	0	0
Total Requirements					5,656,565			5,656,565

Project Closed – FY 2015

Program: Utilities/Water – Capital Construction

Project	WA6122	WTP Emergency Power Generator
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Project Description

This project will purchase an emergency power generator and transfer switch gear for the WTP. The generator will be trailer mounted so it can be remotely stored.

Need for Project

Currently the WTP has no emergency power generator. The new emergency generator will be capable of providing 5± MGD of potable water during an extended power outage.

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

Design, purchase and installation. Grant funding will be investigated and pursued if available.

PROJECT COMPLETE

Estimated Total Project Cost: \$275,000 (Revised from \$250,000 for modification of used generator)

Resources

	Actual Through FY'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	275,000		20,000		295,000			295,000
					0			0
					0			0
Total Resources					295,000			295,000

Requirements

Expenditures	155,589		139,411		295,000			295,000
Transfers/ Contingency					0			0
Ending Balance by Year	119,411	0	0	0	0	0	0	0
Total Requirements					295,000			295,000

Project Closed – FY 2015

Program: Utilities/Water – Capital Construction

Project	WA6206	Reservoir No. 4 Hatch Repairs
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Project Description

This project will replace Reservoir No. 4 roof access hatch. Minor modification to the reservoir venting and control will also occur.

Need for Project

Reservoir No. 4 was constructed about 1953. The roof access hatch no longer meets current security standards to prevent unauthorized access, and is not compliant with Oregon Health Authority.

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 inspection and maintenance.

PROJECT COMPLETE – repairs were less than anticipated and effected with operating funds

Estimated Total Project Cost: \$50,000 (Revised from original estimate of \$75,000)

Resources

	Actual Through FY'14	FY'15 Adopted	FY'15 Revised	FY'16 Adopted	Through FY'16	FY'17 Projected	Future	Total Project
Water Capital Projects	50,000		(50,000)		0			0
Water SDC					0			0
					0			0
Total Resources					0			0

Requirements

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