

WATER

Program: Utilities/Water – Capital Construction

Basic Functions:

This activity includes planning, engineering and all construction of major water system improvements.

Activity Highlights:

The water system includes the treatment plant, eight reservoirs, thirteen pump stations and 105 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 City funding for extension and over-sizing of lines required by the water system in excess of individual development project needs, as well as major rehabilitation of the water treatment plant, pump stations, water storage reservoirs and the distribution system.

Budget Highlights:

New this year, we have separated the active projects from the projects that are completed or cancelled and currently being closed out. The Active Capital Project list includes projects coming to a close in FY'10 but which are not finalized at this time.

The project listing now shows resources across the columns. Columns show the Actual resources through FY'09, the re-assessed resource needs of projects using current data for the "Revised FY'10" column, guiding our "Recommended FY'11" and resources estimated "Through FY'11". We have added "Future Years" and "Total Project" columns. The "Future Years" column includes resources shown on the individual project narrative pages as "FY'12 Projected" and "Future".

Program: Utilities/Water – Capital Construction

ALL ACTIVE CAPITAL PROJECT RESOURCES

		Actual Through FY'09	Revised FY'10	Recommend FY'11	Total Through FY'11	Future Years	Total Project
WA4258	Fire Hydrant New Install	75,000	0	0	75,000	0	75,000
WA4526	Starlite Pump Station Upgrade	210,000	0	0	210,000	0	210,000
WA4693	Booster Station Pump and Motor Rebuilds	75,000	15,000	15,000	105,000	45,000	150,000
WA4742	Meadow Wood Reservoir #16-Site Purch.	50,000	0	63,000	113,000	37,000	150,000
WA4841	Small Main Replacement	150,000	10,000	100,000	260,000	200,000	460,000
WA4863	Hilltop Fire Pump Station Upgrade	476,000	230,000	0	706,000	0	706,000
WA4965	WTP Solids Handling	1,200,000	0	100,000	1,300,000	2,200,000	3,500,000
WA4966	Water Conservation & Mgmt Plan Updt	80,000	(30,000)	0	50,000	0	50,000
WA4967	Plant Landscaping	100,000	10,000	0	110,000	0	110,000
WA4968	Influent Pump VFD's	150,000	70,000	0	220,000	0	220,000
WA4971	Meadow Wood Reservoir No. 16	0	50,000	0	50,000	1,000,000	1,050,000
WA5027	Leonard Road Water Line Loop 2	145,000	(70,000)	0	75,000	0	75,000
WA5028	Water Main on Private Property	20,000	0	30,000	50,000	0	50,000
WA5094	Water Distrib. System Master Plan Update	25,000	75,000	20,000	120,000	0	120,000
WA5096	WTP Structural Repairs	90,000	70,000	0	160,000	288,000	448,000
WA5097	Feasibility of On-Site CHL2 Generation	0	10,000	0	10,000	40,000	50,000
WA5098	Air Scour in Filters	0	0	0	0	400,000	400,000
WA6000	MSA Task Order #1	40,000	20,000	20,000	80,000	60,000	140,000
WA6001	Water Main Looping	20,000	(5,000)	20,000	35,000	80,000	115,000
WA6002	WTP Facility Plan Update	0	10,000	90,000	100,000	0	100,000
WA6044	Meadow Wood #10 Elderberry/Windham	0	25,000	0	25,000	0	25,000
Fund 758	Miscellaneous Water Projects - General	348,709	126,035	15,531	490,275	(3,752,898)	(3,262,623)
Fund 759	Miscellaneous Water Projects - LID's	13,530	(949)	0	12,581	0	12,581
Fund 752	Miscellaneous Water Projects - SDC's	108,187	159,813	(31,560)	236,440	(442,064)	(205,624)
Fund 755	Miscellaneous Water Projects - AFD's	3,243	(443)	1,500	4,300	1,500	5,800
NEW PROJECTS							
WA6052	Reservoir No. 3 Upgrades	0	50,000	73,000	123,000	1,377,000	1,500,000
WA6057	Backwash Pump Redundancy	0	0	150,000	150,000	0	150,000
WA6058	Water System Security Projects	0	0	20,000	20,000	80,000	100,000
WA6059	Pump Station Repairs	0	0	25,000	25,000	75,000	100,000
WA6060	Solids Handling Pads WTP, Pond, & Jo-Gro	0	0	84,000	84,000	116,000	200,000
WA6061	WTP Roof Replacement	0	20,000	90,000	110,000	0	110,000
	Total Projects	<u>3,379,669</u>	<u>844,456</u>	<u>885,471</u>	<u>5,109,596</u>	<u>1,804,538</u>	<u>6,914,134</u>

ALL CLOSED OR CANCELLED CAPITAL PROJECT: RESOURCES

WA4739	Foothill Zone 2 Loop - Ament Road	69,087	(64,068)	0	5,019	0	5,019
WA4969	Reservoir #3 Valve House/Overflow Renov.	75,000	28,000	0	103,000	0	103,000
WA5026	Leonard Road Water Line Loop 1	280,020	(9,000)	0	271,020	0	271,020
WA5059	Williams Hwy. Waterline Fill In	630,000	(5,801)	0	624,199	0	624,199
WA5095	Source Water Protection Plan	0	0	0	0	0	0
WA6024	10th Street 2" Water Line	0	42,000	0	42,000	0	42,000
	Total Projects	<u>1,054,107</u>	<u>(8,869)</u>	<u>0</u>	<u>1,045,238</u>	<u>0</u>	<u>1,045,238</u>

Program: Utilities/Water – Capital Construction

Financial Summary

	ACTUAL FY'08 \$	ACTUAL FY'09 \$	BUDGET FY'10 \$	MANAGER RECOMMEND FY'11 \$	COMMITTEE APPROVED FY'11 \$	COUNCIL ADOPTED FY'11 \$	PROJECTED FY'12 \$
Beginning Fund Balance	<u>2,351,648</u>	<u>3,025,647</u>	<u>1,936,751</u>	<u>1,578,226</u>	<u>1,578,226</u>	<u>1,578,226</u>	<u>623,360</u>
Resources							
State Grant-Oregon Energy Trust	0	0	50,000	0	0	0	0
SDC - Revenues	20,668	10,368	35,250	170,440	170,440	170,440	187,484
SDC - Reimbursement Fee	263,038	139,531	350,000	0	0	0	0
SDC - Improvement Fee	207,766	115,730	305,000	0	0	0	0
SDC - Admin Fee	7,230	4,086	11,500	0	0	0	0
SDC - Various	26,590	20,209	12,750	0	0	0	0
Investment Interest	131,752	66,532	34,500	19,500	19,500	19,500	19,500
Transportation Capital Projects	0	0	0	163,000	163,000	163,000	0
Lands & Buildings Capital Projects	0	0	0	0	0	0	0
General Program - Water	429,000	314,557	605,166	522,531	522,531	522,531	385,102
Water Treatment	15,000	0	0	0	0	0	0
Sale of Assets (Land)	45,000	0	0	0	0	0	0
Advance Finance Revenues	64,828	16,077	55,000	10,000	10,000	10,000	10,000
Other	<u>0</u>	<u>78</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Current Resources	<u>1,210,872</u>	<u>687,168</u>	<u>1,459,166</u>	<u>885,471</u>	<u>885,471</u>	<u>885,471</u>	<u>602,086</u>
Total Resources	<u>3,562,520</u>	<u>3,712,815</u>	<u>3,395,917</u>	<u>2,463,697</u>	<u>2,463,697</u>	<u>2,463,697</u>	<u>1,225,446</u>
Requirements							
Capital Outlay	536,873	1,455,551	2,018,459	1,680,337	1,680,337	1,680,337	903,019
Transfer Out	0	0	72,000	160,000	160,000	160,000	200,000
Appropriated Fund Balance	<u>3,025,647</u>	<u>2,257,264</u>	<u>1,305,458</u>	<u>623,360</u>	<u>623,360</u>	<u>623,360</u>	<u>122,427</u>
Total Requirements	<u>3,562,520</u>	<u>3,712,815</u>	<u>3,395,917</u>	<u>2,463,697</u>	<u>2,463,697</u>	<u>2,463,697</u>	<u>1,225,446</u>

Capital Improvements – Water Projects

Project WA0000 Fund 752 Water System Development Charges

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'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water SDC's	3,850,160	714,500	203,105	170,440	4,223,705	187,484	562,452	4,973,641
Transfers To Projects	(3,837,115)	(350,000)	(50,000)	(210,000)	(4,097,115)			(4,097,115)
Investment Interest	95,142	8,000	6,708	8,000	109,850	8,000	(1,200,000)	(1,082,150)
Total Resources					109,850			(205,624)

Requirements

Expenditures					0			0
Transfers/Contingency		72,000	45,000	160,000	205,000	200,000	295,000	700,000
Ending Balance by Year	108,187	408,687	223,000	31,440	31,440	26,924	(905,624)	(905,624)
Total Requirements					236,440			(205,624)

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA0000 Fund 755 Water Advanced Financing

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'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects AFD's	757,127	55,000	55,000	10,000	822,127	10,000	30,000	862,127
AFD's to projects	(779,378)	(57,000)	(57,000)	(10,000)	(846,378)	(10,000)	(30,000)	(886,378)
Investment Interest	25,494	1,500	1,557	1,500	28,551	1,500		30,051
Total Resources					4,300			5,800

Requirements

Expenditures					0			0
Transfers/Contingency					0			0
Ending Balance by Year	3,243	2,743	2,800	4,300	4,300	5,800	5,800	5,800
Total Requirements					4,300			5,800

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Utilities/Water

Project WA0000 Fund 758 Miscellaneous Water Projects

Project Description

This project accounts for small miscellaneous projects, closed projects and projects that are in the process of starting up. System Development Charges and reimbursements for Advance Financing Districts are also reported here and then transferred to the appropriate project. 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'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	4,527,793	605,166	605,166	522,531	5,655,490	385,102	580,000	6,620,592
Water SDC's to Projects	(6,890,494)	(740,000)	(561,131)	(690,000)	(8,141,625)	(524,000)	(4,274,000)	(12,939,625)
Advance Finance District	779,378	57,000	57,000	10,000	846,378	10,000	30,000	886,378
Return from Transportation Capital				163,000	163,000			163,000
Return from Lands & Buildings Capital	313,800				313,800			313,800
Investment Interest and Other	1,618,232	25,000	25,000	10,000	1,653,232	10,000	30,000	1,693,232
Total Resources					490,275			(3,262,623)

Requirements

Expenditures	335,678				335,678			335,678
Transfers					0		50,000	50,000
Ending Balance by Year	13,031	(39,803)	139,066	154,597	154,597	35,699	(3,648,301)	(3,648,301)
Total Requirements					490,275			(3,262,623)

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Utilities/Water

Project WA0000 Fund 759 Miscellaneous Water Projects L.I.D s

Project Description

This project accounts for the distribution of funds to various Local Improvement District projects. Funds are allocated as the districts are formed.

Need for Project

The need for each individual project is determined by property owner petitions for improvements to be made through a local improvement district.

Estimated Total Project Cost: Costs vary depending on petitions for LID s from citizens.

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	12,581				12,581			12,581
Water SDC's					0			0
Water Treatment	588		(588)		0			0
Total Resources					12,581			12,581

Requirements

Expenditures	12,581				12,581			12,581
Transfers/Contingency					0			0
Ending Balance by Year	588	588	0	0	0	0	0	0
Total Requirements					12,581			12,581

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Utilities/Water

Project WA4258 Fire Hydrant New Install

Project Description

This project accumulates funds for the purchase of new fire hydrants when developments are connected to the municipal water system.

Need for Project

Because extended dry storage of new fire hydrants can cause serious deterioration to internal parts and consumes valuable storage space, hydrants provided by developers have been used for other projects. With a number of developments being connected to municipal water in the next two years, it is time to appropriate funds to replace these hydrants.



Estimated Total Project Cost: \$75,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	75,000				75,000			75,000
					0			0
					0			0
Total Resources					75,000			75,000

Requirements

Expenditures	57,131	8,000	8,000	9,869	75,000			75,000
Transfers/Contingency					0			0
Ending Balance by Year	17,869	9,869	9,869	0	0	0	0	0
Total Requirements					75,000			75,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Utilities/Water

Project WA4526 Starlite Pump Station Upgrade

Project Description

This project will upgrade pumps and install a backup emergency power generator in the Starlite Pump Station.

Need for Project

This project will reliably provide fire flows from Starlite Pump Station and provide emergency backup power in accordance with current water standards.



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

Estimated Total Project Cost: \$400,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	210,000				210,000		190,000	400,000
					0			0
					0			0
Total Resources					210,000			400,000

Requirements

Expenditures	37,692	152,000	100,000	72,308	210,000		190,000	400,000
Transfers/Contingency					0			0
Ending Balance by Year	172,308	20,308	72,308	0	0	0	0	0
Total Requirements					210,000			400,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA4693 Booster Station Pump and Motor Rebuilds

Project Description

This project will accumulate funds to allow the planned or emergency replacement of pumps, motors and associated controls in the City’s water pressure booster stations.



Need for Project

As the booster stations age, it will become necessary to replace worn-out pumps and motors with new equipment. Additionally, pumps will be changed out over a period of time to allow standardization of spare parts.

Estimated Total Project Cost: \$15,000 per year

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future Through FY'15	Total Project
Water Capital Projects	15,000	15,000	15,000	15,000	45,000	0	45,000	90,000
Water Treatment	60,000				60,000			60,000
					0			0
Total Resources					105,000			150,000

Requirements

Expenditures	43,828	15,000	15,000	30,000	88,828	16,172	45,000	150,000
Transfers/Contingency					0			0
Ending Balance by Year	31,172	31,172	31,172	16,172	16,172	0	0	0
Total Requirements					105,000			150,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA4742 Meadow Wood Reservoir No. 16 – Site Purchase

Project Description

This project would fund the purchase of approximately one-quarter acre of land to serve as a future Zone 2 reservoir site (Reservoir No. 16).

Need for Project

The Water Distribution Master Plan calls for the future construction of a water reservoir to serve Zone 2 water customers in the southeast portion of the City. The site 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.



Estimated Total Project Cost: \$150,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	50,000	100,000	0		50,000		37,000	87,000
Water SDC (42%)				63,000	63,000			63,000
					0			0
Total Resources					113,000			150,000

Requirements

Expenditures	15,964	134,000	10,000	87,036	113,000		37,000	150,000
Transfers/Contingency					0			0
Ending Balance by Year	34,036	36	24,036	0	0	0	0	0
Total Requirements					113,000			150,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA4841 Small Main Replacement

Project Description

This is an ongoing program to replace old, undersized cast iron water mains. As funds are available, this project will continue on a yearly basis.

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. As a specific location and cost is identified, a capital project will be created to track the specific project costs.



Estimated Total Project Cost: \$1,200,000 - \$50,000/year

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future Through FY'15	Total Project
Water Capital Projects	150,000	50,000	52,000	100,000	302,000	50,000	150,000	502,000
Water Capital Projects Transfers WA6024			(42,000)		(42,000)			(42,000)
					0			0
Total Resources					260,000			460,000

Requirements

Expenditures		50,000	10,000	200,000	210,000	98,000	152,000	460,000
					0			0
Ending Balance by Year	150,000	150,000	150,000	50,000	50,000	2,000	0	0
Total Requirements					260,000			460,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project: WA4863 Hilltop Fire Pump Upgrade

Project Description

This project consists of installing a triplex fire pumping configuration at the existing Hilltop Pump Station located at 1202 hilltop Drive. Additionally, this project includes installing a back-up generator at this station.



Need for Project

Currently, the Hilltop fire pump is incapable of serving fire flows per the Oregon Fire Code. This upgrade will bring the station up to code and provide the capability to feasibly upgrade with even more flow should larger scale development require it (homes in excess of 3600 sq ft).

The installation of a generator at the pump station will provide redundant power which it currently does not have. Since there is no reservoir for this pressure zone, any loss of power would result in loss of service and possible contamination of the City's water system.

Estimated Total Project Cost: \$ 706,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	476,000	230,000	230,000		706,000			706,000
					0			0
					0			0
Total Resources					706,000			706,000

Requirements

Expenditures	150,327	282,192	555,673		706,000			706,000
Transfers/Contingency					0			0
Ending Balance by Year	325,673	273,481	0	0	0	0	0	0
Total Requirements					706,000			706,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA4965 WTP Solids Handling

Project Description

This project will implement a permanent solids handling solution at the City's WTP. This project will include sludge collectors in the sedimentation basins, solids dewatering and chemical feed equipment. This is phase 1 of the improvements needed.

Need for Project

This project will provide a permanent solids handling solution for the WTP.



Original estimate of \$2,500,000 redefined after pre-design.

Estimated Total Project Cost: \$3,500,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	350,000			100,000	450,000	200,000	1,380,000	2,030,000
Water SDC (42%)	850,000	100,000	0		850,000		620,000	1,470,000
					0			0
Total Resources					1,300,000			3,500,000

Requirements

Expenditures	422,996	300,000	150,000	500,000	1,072,996	425,000	2,002,004	3,500,000
Transfers/Contingency					0			0
Ending Balance by Year	777,004	577,004	627,004	227,004	227,004	2,004	0	0
Total Requirements					1,300,000			3,500,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA4966 Water Conservation and Management Plan Update

Project Description

This project will update the City’s Water Conservation and Management Plan and the Water Distribution System Master Plan. The Water Conservation and Management Plan 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 Water Conservation and Management Plan 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.

Original estimate of \$80,000 redefined.

Estimated Total Project Cost: \$50,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	80,000		(30,000)		50,000			50,000
					0			0
					0			0
Total Resources					50,000			50,000

Requirements

Expenditures		80,000	0	20,000	20,000	30,000		50,000
Transfers/Contingency					0			0
Ending Balance by Year	80,000	0	50,000	30,000	30,000	0	0	0
Total Requirements					50,000			50,000

Adopted FY'10 will NOT add into TOTALS

hilite,then F9 to refresh FORMULAS ↑

Capital Improvements – Water Projects

Project WA4967 Plant Landscaping

Project Description

This project will construct the garden on the plant site to showcase drought tolerant plants and water miser irrigation systems. With the garden, literature will be made available to further educate citizens on the advantages of low water use landscaping.



Need for Project

The water conservation plan commits the City to the installation of a low water use demonstration garden constructed on the plant site for educational purposes. This is to comply with the City’s Water Conservation and Management Plan which was approved by the Oregon Water Resources Department in February 2003.

Council reviewed the project and directed staff to proceed with the improvements at the Water Treatment Plant. Phase 1 will be underway in 2009.

Final cost will be ~\$110,000

Estimated Total Project Cost: \$100,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	100,000		10,000		110,000			110,000
					0			0
					0			0
Total Resources					110,000			110,000

Requirements

Expenditures	10,126	95,000	95,000	2,700	107,826	2,174		110,000
Transfers/Contingency					0			0
Ending Balance by Year	89,874	-5,126	4,874	2,174	2,174	0	0	0
Total Requirements					110,000			110,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA4968 Influent Pump VFD's

Project Description

This project will install 2 variable frequency drives, associated controls and programming for the WTP influent pumps.

Need for Project

The VFD's will allow for the manipulation of influent pumping rates allowing smoother operation of the Plant filters. This will result in more plant production efficiency and less peak power consumption.



Final cost will be ~\$220,000

Estimated Total Project Cost: \$250,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	150,000	100,000	70,000		220,000			220,000
					0			0
					0			0
Total Resources					220,000			220,000

Requirements

Expenditures	42,676	110,000	177,324		220,000			220,000
Transfers/Contingency					0			0
Ending Balance by Year	107,324	97,324	0	0	0	0	0	0
Total Requirements					220,000			220,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA4971 Meadow Wood Reservoir No. 16

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.



Estimated Total Project Cost: \$1,050,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects					0		609,000	609,000
Water SDC (42%)		250,000	50,000		50,000		391,000	441,000
					0			0
Total Resources					50,000			1,050,000

Requirements

Expenditures					0		1,050,000	1,050,000
Transfers/Contingency					0			0
Ending Balance by Year	0	250,000	50,000	50,000	50,000	50,000	0	0
Total Requirements					50,000			1,050,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project	WA5027	Leonard Road Water Line Loop 2
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Project Description

This project will consist of installing 620 feet of 8 inch water line in Estates Lane to effect a water loop between Willow Lane and Devonshire Way.

Need for Project

Water line looping improves area wide fire flows, water quality, and system dependability.



Original estimate of \$145,000 redefined with scope change

Estimated Total Project Cost: \$75,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	85,000		(40,000)		45,000			45,000
Water SDC's	60,000		(30,000)		30,000			30,000
					0			0
Total Resources					75,000			75,000

Requirements

Expenditures	19,128	37,267	55,872		75,000			75,000
Transfers/ Contingency					0			0
Ending Balance by Year	125,872	88,605	0	0	0	0	0	0
Total Requirements					75,000			75,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA 5028 Water Main in Private Property

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.



Estimated Total Project Cost: \$ 50,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	20,000			30,000	50,000			50,000
					0			0
					0			0
Total Resources					50,000			50,000

Requirements

Expenditures		20,000	10,000	40,000	50,000			50,000
Transfers/ Contingency					0			0
Ending Balance by Year	20,000	0	10,000	0	0	0	0	0
Total Requirements					50,000			50,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA5094 Water Distribution System Master Plan Update

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.

Estimated Total Project Cost: \$ 120,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	25,000	75,000	75,000	20,000	120,000			120,000
Water SDC's					0			0
					0			0
Total Resources					120,000			120,000

Requirements

Expenditures	15,980	75,000	0	75,000	90,980	29,020		120,000
Transfers/Contingency					0			0
Ending Balance by Year	9,020	9,020	84,020	29,020	29,020	0	0	0
Total Requirements					120,000			120,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA5096 WTP Structural Repairs

Project Description

This project will fund many minor repairs necessary for the proper operation and long term maintenance of the Water Filtration Plant. Included items are: roof repairs, exterior painting/restoration, stairways and landings for basin access, lab expansion, surge tank stabilization 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 Filtration 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.

Estimated Total Project Cost: \$ 90,000/year

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	90,000	90,000	70,000	0	160,000	18,000	270,000	448,000
					0			0
					0			0
Total Resources					160,000			448,000

Requirements

Expenditures	48,576	105,000	75,000	36,424	160,000	18,000	270,000	448,000
Transfers					0			0
Ending Balance by Year	41,424	26,424	36,424	0	0	0	0	0
Total Requirements					160,000			448,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project	WA5097	Feasibility of On-Site Cl2 Generation
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Project Description

This project will evaluate the feasibility of on-site chlorine generation for the disinfection of drinking water. This would replace the bulk delivery of hypochlorite (bleach) currently used, switching to less frequent deliveries of bulk salt instead.

Need for Project

The project will evaluate as to whether this technology offers the potential to significantly reduce truck traffic in and out of the Water Filtration Plant. It will also evaluate potential benefits in regards to the formation of disinfection by-products on-site generation of hypochlorite may provide.

Estimated Total Project Cost: \$ 50,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects		10,000	10,000		10,000		19,000	29,000
Water SDC (42%)					0		21,000	21,000
					0			0
Total Resources					10,000			50,000

Requirements

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

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA5098 Air Scour in Filters

Project Description

This project will engineer and install an air scour system in the filters to assist with backwash filter cleaning. This will include adding air scour piping, electric blowers and necessary controls.



Need for Project

This project will greatly increase filter efficiencies by reducing the amount of backwash water needed. Filter run times will also be lengthened and safety hazards currently experienced while maintaining the filters will be eliminated.

Estimated Total Project Cost: \$ 400,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects					0		232,000	232,000
Water SDC (42%)					0		168,000	168,000
					0			0
Total Resources					0			400,000

Requirements

Expenditures		400,000	0		0		400,000	400,000
Transfers/Contingency					0			0
Ending Balance by Year	0	-400,000	0	0	0	0	0	0
Total Requirements					0			400,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA6000 MSA Task Order #1 (General Engineering)

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. 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.

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

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future Through FY'15	Total Project
Water Capital Projects	40,000	20,000	20,000	20,000	80,000	0	60,000	140,000
					0			0
					0			0
Total Resources					80,000			140,000

Requirements

Expenditures	11,347	20,000	20,000	40,000	71,347	8,653	60,000	140,000
Transfers/Contingency					0			0
Ending Balance by Year	28,653	28,653	28,653	8,653	8,653	0	0	0
Total Requirements					80,000			140,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

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.

Estimated Total Project Cost: \$725,000 - \$20,000/year

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects	20,000	20,000	(5,000)	20,000	35,000	20,000	60,000	115,000
					0			0
					0			0
Total Resources					35,000			115,000

Requirements

Expenditures		20,000	0	35,000	35,000	20,000	60,000	115,000
Transfers/ Contingency					0			0
Ending Balance by Year	20,000	20,000	15,000	0	0	0	0	0
Total Requirements					35,000			115,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA6002 WTP Facility Plan Update

Project Description

This project will update the Water Treatment Plant Facility Plan completed in 2004.

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.

Estimated Total Project Cost: \$100,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects		10,000	10,000	90,000	100,000			100,000
					0			0
					0			0
Total Resources					100,000			100,000

Requirements

Expenditures		10,000	0	80,000	80,000	20,000		100,000
Transfers/Contingency					0			0
Ending Balance by Year	0	0	10,000	20,000	20,000	0	0	0
Total Requirements					100,000			100,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA 6044 Meadow Wood Ph 10 Elderberry to Windham

Project Description

Installation of approximately 230 feet of 12” zone 2 water line.

Need for Project

Installation of 12” water line will coincide with developer installed 8” line prior to road improvements.

Estimated Total Project Cost: \$ 25,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects from WA6001			25,000		25,000			25,000
					0			0
					0			0
Total Resources					25,000			25,000

Requirements

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

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA6052 Reservoir No. 3 Upgrades

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.



Estimated Total Project Cost: \$1,500,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects			50,000	73,000	123,000	100,000	1,277,000	1,500,000
					0			0
					0			0
Total Resources					123,000			1,500,000

Requirements

Expenditures			50,000	73,000	123,000	100,000	1,277,000	1,500,000
Transfers/Contingency					0			0
Ending Balance by Year	0	0	0	0	0	0	0	0
Total Requirements					123,000			1,500,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA6057 Backwash Pump Redundancy

Project Description

This project will add a second backwash pump for treatment plant redundancy.

Need for Project

Currently the existing backwash pump cannot be removed from service for any length of time. The existing pump is due for extensive overhaul/rebuild. With increased demand, a new pump must be installed before the existing pump can be serviced or replaced.



Estimated Total Project Cost: \$150,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects				87,000	87,000			87,000
Water SDC's (42%)				63,000	63,000			63,000
					0			0
Total Resources					150,000			150,000

Requirements

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

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA6058 Water System Security Projects

Project Description

This project will install and/or upgrade system security at all water system facilities as needed/required.

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.

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

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future Through FY'15	Total Project
Water Capital Projects				20,000	20,000	20,000	60,000	100,000
					0			0
					0			0
Total Resources					20,000			100,000

Requirements

Expenditures				20,000	20,000	20,000	60,000	100,000
Transfers/Contingency					0			0
Ending Balance by Year	0	0	0	0	0	0	0	0
Total Requirements					20,000			100,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA6059 Pump Station Repairs

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 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.

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

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future Through FY'15	Total Project
Water Capital Projects				25,000	25,000		75,000	100,000
					0			0
					0			0
Total Resources					25,000			100,000

Requirements

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

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA6060 Solids Handling Pads WTP, Pond and JO-GRO™

Project Description

This project will install concrete or asphalt pads for solids handling. The pads will be located at the Water Treatment Plant, solids handling pond and at JO-GRO™.

Need for Project

The large solids handling bags require a large flat area for their use. Once the solids dry, heavy equipment is used to remove the solids and transport to JO-GRO™. The solids can then be utilized in the compost operation.



Estimated Total Project Cost: \$200,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects					0	116,000		116,000
Water SDC (42%)				84,000	84,000			84,000
					0			0
Total Resources					84,000			200,000

Requirements

Expenditures				84,000	84,000	116,000		200,000
Transfers/Contingency					0			0
Ending Balance by Year	0	0	0	0	0	0	0	0
Total Requirements					84,000			200,000

Adopted FY'10 will NOT add into TOTALS

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Capital Improvements – Water Projects

Project WA6061 WTP Roof Replacement

Project Description

This will complete roof repairs on the treatment plant main building.

Need for Project

Various areas of the WTP has experienced leaks in the roof areas. A consultant evaluation of the roof resulted in the recommendation of various replacement and repairs.



Estimated Total Project Cost: \$110,000

Resources

	Actual Through FY'09	FY'10 Adopted	FY'10 Revised	FY'11 Recommend	Through FY'11	FY'12 Projected	Future	Total Project
Water Capital Projects			20,000	90,000	90,000			90,000
					20,000			20,000
					0			0
Total Resources					110,000			110,000

Requirements

Expenditures			20,000	90,000	110,000			110,000
Transfers/Contingency					0			0
Ending Balance by Year	0	0	0	0	0	0	0	0
Total Requirements					110,000			110,000

Adopted FY'10 will NOT add into TOTALS

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