

Background

The City of Lacey provides water service to approximately 70,000 people within its corporate City limits and adjacent urban areas. Groundwater is the supply source to the system. Lacey's water service area abuts the City of Olympia's service area and a number of smaller privately owned water systems, many of which lie within Lacey's city limits. Lacey's system is challenged with replacing deteriorated facilities and mains, and installing growth-related source, storage, and transmission to meet demands as they occur.

Lacey's water system improvements are guided by the 2013 Water Comprehensive Plan. The plan, which serves as the basis for water-related capital projects and this capital facilities plan element covers the following:

- 1) Evaluated the current capabilities and limitations of Lacey's existing water systems;
- 2) Projected future demands in Lacey's current and long-term service areas; and
- 3) Established a schedule of system repairs, improvements, and expansion necessary to assure adequate supply and delivery of water to those service areas.

System repair and improvement projects listed in this capital facilities plan include replacement and upgrades of distribution piping, development of new water sources and storage capacity, water quality improvements, and other items that will lead to more effective use of existing water resources and facilities.

The exact timing of water-related projects in this area are outlined in this Capital Facilities Plan. This plan will be reviewed annually to assure that needed expansions are in place to accommodate development as it occurs.

It is important to note that this Capital Facilities Plan's purpose is to demonstrate how the City will implement the Water Comprehensive Plan. Readers wishing more detailed explanations of methodologies and findings are encouraged to review the full 2013 Water Comprehensive Plan. Copies are available in the Report and Plans Library on the City of Lacey website.

Water System Planning Goals and Objectives

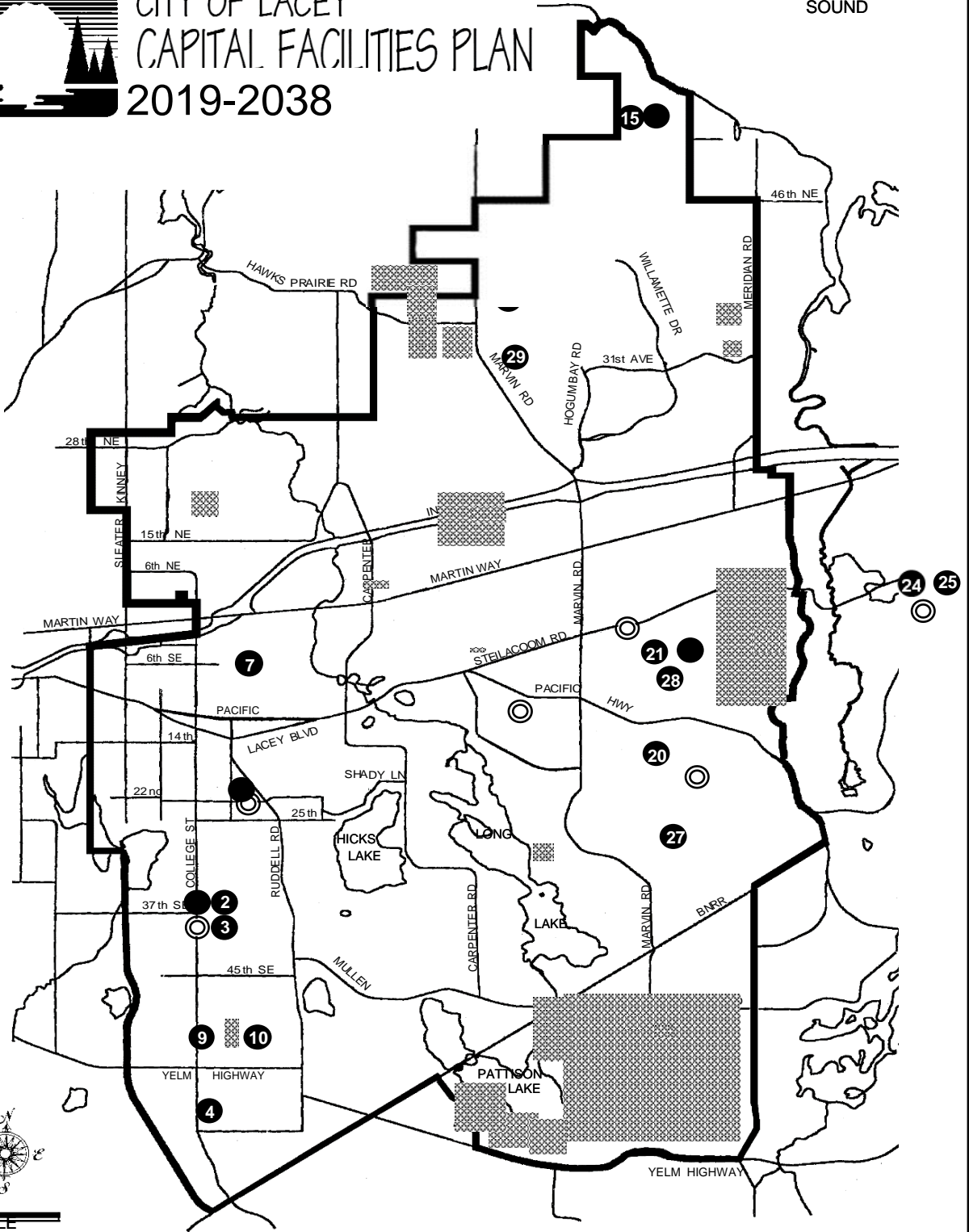
Planning goals and objectives as established by Lacey's Comprehensive Water Plan are:

- 1) Provide sufficient supply to meet increasing water system demands and complete water right mitigation projects in order to utilize new water rights. The development of increased water supply includes maximizing capacity from existing sources and the development of new sources.



CITY OF LACEY
 CAPITAL FACILITIES PLAN
 2019-2038

PUGET
 SOUND



**Water System
 Inventory**

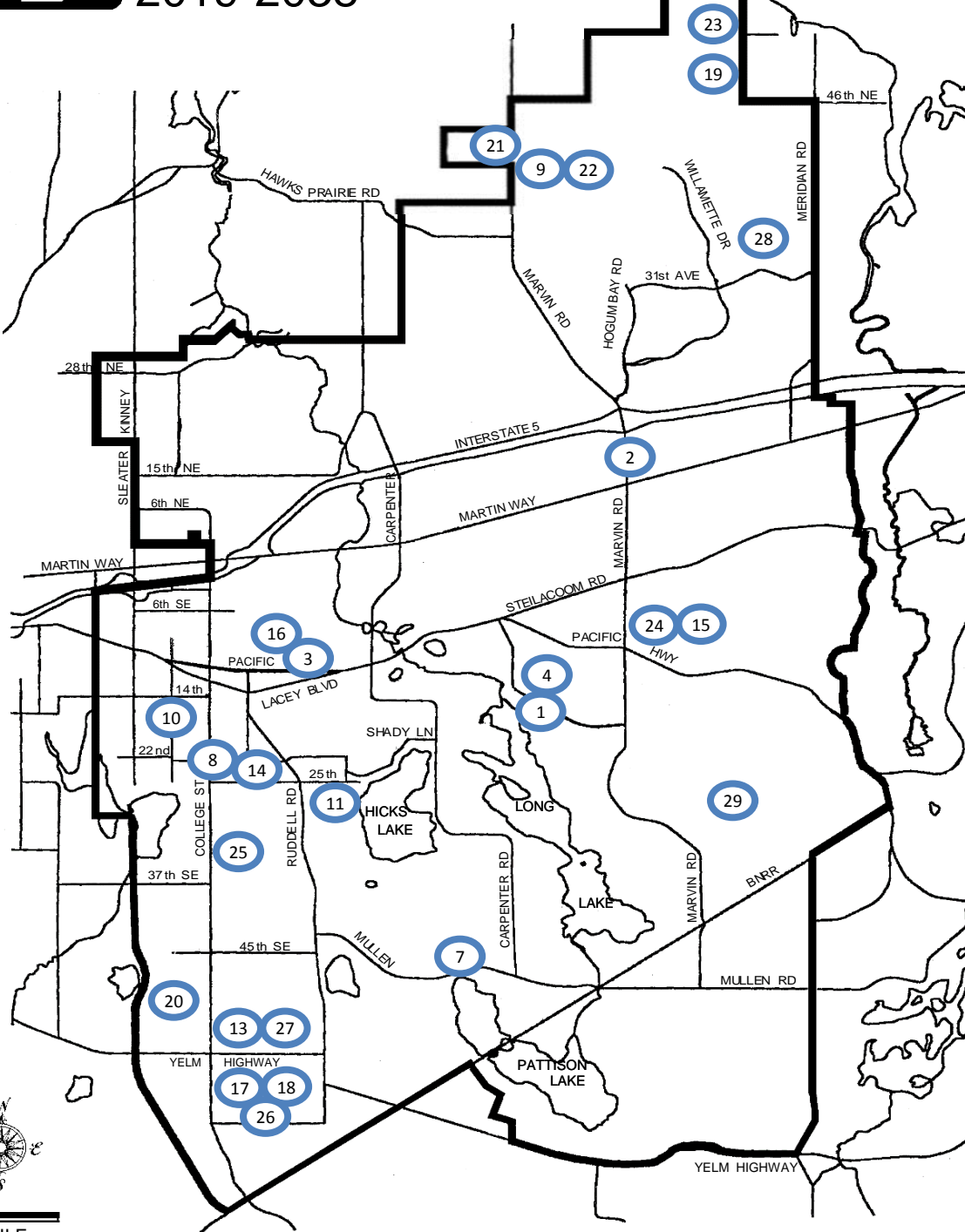
- Reservoirs
- Wells
- Private Water Systems

**Lacey UGA
 Boundary**



CITY OF LACEY
CAPITAL FACILITIES PLAN
2019-2038

PUGET
SOUND



Water Projects

Project Numbers



**Lacey UGA
Boundary**

CITY OF LACEY 2019-2038 CAPITAL FACILITIES PLAN

WATER PROJECTS SUMMARY SHEET

	Prior Years	2019	2020	2021	2022	2023	2024	6-Year Total	%	Future Years	
FUNDING SOURCES											
General Revenue											
Voted G.O. Bonds											
Non-Voted G.O. Bonds											
Revenue Bonds											
Utility Rates / Fees	22,000	432,000	1,350,000	1,300,000	1,300,000	1,300,000	1,300,000	6,982,000	10%		
GFC Revenue	905,000	9,576,000	11,167,000	16,355,000	11,875,000	14,404,278	1,605,000	64,982,278	90%	11,850,000	
LID / ULID											
Arterial Street Fund											
PWTF Loan Total											
Interfund Loan											
Grants											
SEPA / LTA											
Developer Financing											
Other											
TOTAL	927,000	10,008,000	12,517,000	17,655,000	13,175,000	15,704,278	2,905,000	71,964,278	100%	11,850,000	
EXPENDITURES BY CATEGORY											
Planning	225,000	1,372,000	337,000	50,000				1,759,000	2%		
Preliminary Design	86,000	900,000			200,000	150,000	400,000	1,650,000	2%		
Design & Engineering	227,000	1,756,000	1,490,000	1,840,000	1,090,000	840,000	940,000	7,956,000	11%	500,000	
Land / ROW Acquisition											
Construction	150,000	4,957,000	10,455,000	15,580,000	11,700,000	7,730,000	1,380,000	51,802,000	72%	11,350,000	
Other	239,000	1,023,000	235,000	185,000	185,000	6,984,278	185,000	8,797,278	12%		
TOTAL	927,000	10,008,000	12,517,000	17,655,000	13,175,000	15,704,278	2,905,000	71,964,278	100%	11,850,000	
EXPENDITURES BY PROJECT											
Water - 1	Union Mills Water Services	10,000	135,000					135,000	0%		
Water - 2	Discolored Water Study	97,000	75,000					75,000	0%		
Water - 3	Train Depot Water		250,000					250,000	0%		
Water - 4	Union Mills Seismic Upgrade & Overflow	110,000	1,797,000					1,797,000	2%		
Water - 5	Water System Plan	28,000	671,000					671,000	1%		
Water - 6	Reclaimed Water Plan		200,000	137,000				337,000	0%		
Water - 7	Mullen Rd Water		750,000	750,000				1,500,000	2%		
Water - 8	College & 22nd Water		300,000	350,000				650,000	1%		
Water - 9	Hawks Prairie Wellfield	125,000	500,000					500,000	1%		
Water - 10	Golf Club Rd Watermain	10,000	990,000					990,000	1%		
Water - 11	25th Loop Water		235,000					235,000	0%		
Water - 12	pH Treatment Recommendations	100,000	76,000					76,000	0%		
Water - 13	Well S09 Rehabilitation	18,000	82,000					82,000	0%		
Water - 14	Well S06 Rehabilitation	4,000	100,000					100,000	0%		
Water - 15	Fitzhugh Water Main	15,000	62,000	425,000				487,000	1%		
Water - 16	Well S07 Rehabilitation		50,000	50,000				100,000	0%		
Water - 17	Well S04 Nitrate Study			150,000				150,000	0%		
Water - 18	Capitol City Estates Fire-Flow	82,000	200,000	1,750,000	4,000,000			5,950,000	8%		
Water - 19	Well S15/S16 Replacement	236,000	444,000	2,000,000	2,000,000	1,020,000		5,464,000	8%		
Water - 20	337 Zone Reservoir		450,000	550,000	3,000,000	3,000,000		7,000,000	10%		
Water - 21	Marvin Rd Well		250,000	1,000,000	1,500,000	750,000		3,500,000	5%		
Water - 22	Hawks Prairie Tank Repair & Sister Tank		550,000	2,000,000	2,000,000	2,000,000		6,550,000	9%		
Water - 23	48th/50th Ave Fire-Flow				100,000	750,000		850,000	1%		
Water - 24	Madrona pH Adjustment		500,000	1,000,000	1,500,000	1,000,000		4,000,000	6%		
Water - 25	Well S01 Replacement		200,000	500,000	300,000	2,000,000	3,000,000	6,000,000	8%		
Water - 26	Well S04 Expansion				500,000	500,000	2,000,000	3,000,000	4%		
Water - 27	Well S09 Treatment Study						150,000	150,000	0%		
Water - 28	Meridian Campus Well					150,000	850,000	250,000	1,250,000	2%	4,750,000
Water - 29	Evergreen pH Adjustment							500,000	500,000	1%	3,500,000
Water - 30	Brewery Wellfield Development			50,000	50,000	200,000	200,000	200,000	700,000	1%	2,600,000
Water - 31	Critical Valves		200,000	100,000	100,000	100,000	100,000	100,000	700,000	1%	
Water - 32	Water Right Mitigation		197,000	85,000	85,000	85,000	85,000	85,000	622,000	1%	
Water - 33	Smith Farm Management	92,000	444,000	20,000	20,000	20,000	20,000	20,000	544,000	1%	
Water - 34	Transportation Related Improvements		150,000	150,000	150,000	150,000	150,000	150,000	900,000	1%	
Water - 35	Development Related Improvements		150,000	150,000	150,000	150,000	150,000	150,000	900,000	1%	
Water - 36	Annual Pipeline Improvements			100,000	1,000,000	100,000	1,000,000	100,000	2,300,000	3%	1,000,000
Water - 37	Annual Waterline Replacement			1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	5,500,000	8%	
Water - 38	Well Rehabilitation			100,000	100,000	100,000	100,000	100,000	500,000	1%	
Water - 39	AMR System						6,799,278	6,799,278	9%		
TOTAL	927,000	10,008,000	12,517,000	17,655,000	13,175,000	15,704,278	2,905,000	71,964,278	100%	11,850,000	

Notes: Project funding and expenditure amounts shown in the future years column are preliminary estimates for planning purposes. Identification of specific revenue sources and expenditures will be made as the project moves into the 6-year planning window.

Planning Period: 2019-2038
 Project Title: Union Mills Water Services
 Location: Union Mills Rd

File Number: wtr001.xls
 UGA Planning Area: Tanglewilde
 Water Plan Project: N/A

CFP Project: Water- 1
 Department: Public Works

Project Description: Replace and consolidate failing water service lines.

Project Justification: Improve service pressure and water use efficiency.

Policy Basis: Best Management Practices

Current Project Status: Complete

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	10,000	135,000						135,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING	<u>10,000</u>	<u>135,000</u>						<u>135,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	10,000									
Land / ROW Acquisition										
Construction		135,000						135,000	100%	
Other										
TOTAL EXPENDITURES	<u>10,000</u>	<u>135,000</u>						<u>135,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Discolored Water Study
 Location: Hawks Prairie

File Number: wtr002.xls
 UGA Planning Area: Hawks Prairie
 Water Plan Project: N/A

CFP Project: Water- 2
 Department: Public Works

Project Description: Evaluation of possible causes for occasional "yellow water" events.

Project Justification: Improve water quality and reduce customer impacts.

Policy Basis: Best Management Practices

Current Project Status: Planning

Land Status: N/A

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	97,000	75,000						75,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING	<u>97,000</u>	<u>75,000</u>						<u>75,000</u>	<u>100%</u>	
EXPENDITURES										
Planning	97,000	75,000						75,000	100%	
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other										
TOTAL EXPENDITURES	<u>97,000</u>	<u>75,000</u>						<u>75,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Train Depot Water
 Location: Lebanon St

File Number: wtr003.xls
 UGA Planning Area: Central
 Water Plan Project: N/A

CFP Project: Water-
 Department: Public Works

Project Description: Install new water line concurrent with the Lebanon extension project.

Project Justification: Provide water service to the Train Depot site and improve water system looping.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Construction

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
∞ GFC Revenue		250,000						250,000	100%	
∞ LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>250,000</u>						<u>250,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction		250,000						250,000	100%	
Other										
TOTAL EXPENDITURES		<u>250,000</u>						<u>250,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Union Mills Seismic Upgrade & Overflow
 Location: Paradise Ct

File Number: wtr004.xls
 UGA Planning Area: Tanglewilde
 Water Plan Project: ST-03

CFP Project: Water- 4
 Department: Public Works

Project Description: This project will the foundation and anchorage of the Union Mills tank and add a dedicated overflow and drain line.

Project Justification: Improve infrastructure resiliency during emergencies.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Construction

Land Status: City and County ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	110,000	1,797,000						1,797,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING	<u>110,000</u>	<u>1,797,000</u>						<u>1,797,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	110,000									
Land / ROW Acquisition										
Construction		1,797,000						1,797,000	100%	
Other										
TOTAL EXPENDITURES	<u>110,000</u>	<u>1,797,000</u>						<u>1,797,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Water System Plan
 Location: N/A

File Number: wtr005.xls
 UGA Planning Area: All
 Water Plan Project: G-5

CFP Project: Water- 5
 Department: Public Works

Project Description: Update the water system plan.

Project Justification: State Department of Health requirement.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Planning

Land Status: N/A

PROJECT FUNDING SOURCES AND EXPENDITURES

8-10

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	28,000	671,000						671,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING	<u>28,000</u>	<u>671,000</u>						<u>671,000</u>	<u>100%</u>	
EXPENDITURES										
Planning	28,000	671,000						671,000	100%	
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other										
TOTAL EXPENDITURES	<u>28,000</u>	<u>671,000</u>						<u>671,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Reclaimed Water Plan
 Location: N/A

File Number: wtr006.xls
 UGA Planning Area: All
 Water Plan Project: WS-5

CFP Project: Water- 6
 Department: Public Works

Project Description: Develop a Reclaimed Water Plan.

Project Justification: Evaluate how best to utilize reclaimed water as a resource.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Planning

Land Status: N/A

PROJECT FUNDING SOURCES AND EXPENDITURES

11-8

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		200,000	137,000					337,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>200,000</u>	<u>137,000</u>					<u>337,000</u>	<u>100%</u>	
EXPENDITURES										
Planning		200,000	137,000					337,000	100%	
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other										
TOTAL EXPENDITURES		<u>200,000</u>	<u>137,000</u>					<u>337,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Mullen Rd Water
 Location: Mullen Rd

File Number: wtr007.xls
 UGA Planning Area: Lakes
 Water Plan Project: N/A

CFP Project: Water- 7
 Department: Public Works

Project Description: Relocate and upsize the existing water line in Mullen Rd concurrent with the County's road reconstruction project.

Project Justification: Reduce utility conflicts with the road reconstruction and improve water transmission capabilities.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Design

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		750,000	750,000					1,500,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>750,000</u>	<u>750,000</u>					<u>1,500,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction		750,000	750,000					1,500,000	100%	
Other ²										
TOTAL EXPENDITURES		<u>750,000</u>	<u>750,000</u>					<u>1,500,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: College & 22nd Water
 Location: College St

File Number: wtr008.xls
 UGA Planning Area: Central
 Water Plan Project: P-09

CFP Project: Water- 8
 Department: Public Works

Project Description: Replace and upsize the existing water line in College St concurant with the City's road reconstruction project.

Project Justification: Replaces an aging water line and improves water transmission capacity, coordination with transprotation projects.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Construction

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		300,000	350,000					650,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>300,000</u>	<u>350,000</u>					<u>650,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction		300,000	350,000					650,000	100%	
Other										
TOTAL EXPENDITURES		<u>300,000</u>	<u>350,000</u>					<u>650,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Hawks Prairie Wellfield
 Location: Marvin Rd

File Number: wtr009.xls
 UGA Planning Area: Hawks Prairie
 Water Plan Project: WS-09

CFP Project: Water- 9
 Department: Public Works

Project Description: This project will make repairs to source 31 and evaluate the aquifer capacity to support additional wells.

Project Justification: Excessive sand in source 31 requires remediation and repair. Aquifer capacity needs to be evaluated before constructing additional sources.

Policy Basis: Best Management Practices

Current Project Status: Design

Land Status: City and County ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	125,000	500,000						500,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING	<u>125,000</u>	<u>500,000</u>						<u>500,000</u>	<u>100%</u>	
EXPENDITURES										
Planning		350,000						350,000	70%	
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other	125,000	150,000						150,000	30%	
TOTAL EXPENDITURES	<u>125,000</u>	<u>500,000</u>						<u>500,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Golf Club Rd Watermain
 Location: Golf Club Rd

File Number: wtr010.xls
 UGA Planning Area: Central
 Water Plan Project: P-08

CFP Project: Water- 10
 Department: Public Works

Project Description: Replace a section of water line in Golf Club Rd.

Project Justification: The existing water line is under sized and nearing the end of its useful life.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Design

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	10,000	990,000						990,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING	<u>10,000</u>	<u>990,000</u>						<u>990,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	10,000									
Land / ROW Acquisition										
Construction		990,000						990,000	100%	
Other ²										
TOTAL EXPENDITURES	<u>10,000</u>	<u>990,000</u>						<u>990,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: pH Treatment Recommendations
 Location: Various

File Number: wtr012.xls
 UGA Planning Area: All
 Water Plan Project: N/A

CFP Project: Water- 12
 Department: Public Works

Project Description: Study to evaluate water treatment needs related to the Lead & Copper Rule.

Project Justification: State Department of Health requirement.

Policy Basis: 2013 Comprehensive Water Plan

Current Project Status: Planning

Land Status: N/A

PROJECT FUNDING SOURCES AND EXPENDITURES

8-17

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	100,000	76,000						76,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING	<u>100,000</u>	<u>76,000</u>						<u>76,000</u>	<u>100%</u>	
EXPENDITURES										
Planning	100,000	76,000						76,000	100%	
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other ²										
TOTAL EXPENDITURES	<u>100,000</u>	<u>76,000</u>						<u>76,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: 25th Loop Water
 Location: 25th Lp

File Number: wtr011.xls
 UGA Planning Area: Central
 Water Plan Project: P-08

CFP Project: Water- 11
 Department: Public Works

Project Description: Replace a section of water line along 25th Lp.

Project Justification: The existing water line has reached the end of its useful life.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Design

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
8-16 GFC Revenue		235,000						235,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>235,000</u>						<u>235,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction		235,000						235,000	100%	
Other										
TOTAL EXPENDITURES		<u>235,000</u>						<u>235,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Well S09 Rehabilitation
 Location: Little Prairie

File Number: wtr013.xls
 UGA Planning Area: Horizons
 Water Plan Project: WS-09

CFP Project: Water- 13
 Department: Public Works

Project Description: Rehabilitate well S09 and replace pumping equipment.

Project Justification: Source 9 has been experiancing sand and occasional waterlevel fluctuations. The exising pump has reached the end of its useful life.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Construction

Land Status: Easement

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees	18,000	82,000						82,000	100%	
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING	<u>18,000</u>	<u>82,000</u>						<u>82,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other ²	18,000	82,000						82,000	100%	
TOTAL EXPENDITURES	<u>18,000</u>	<u>82,000</u>						<u>82,000</u>	<u>100%</u>	

Notes: .

Planning Period: 2019-2038
 Project Title: Well S06 Rehabilitation
 Location: Judd Hill

File Number: wtr014.xls
 UGA Planning Area: Central
 Water Plan Project: WS-09

CFP Project: Water- 14
 Department: Public Works

Project Description: Rehabilitate source 6.

Project Justification: Source 6 has seen a significant decline in specific capacity, rehabilitation is necessary to maintain its productivity.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Construction

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees	4,000	100,000						100,000	100%	
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING	<u>4,000</u>	<u>100,000</u>						<u>100,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other	4,000	100,000						100,000	100%	
TOTAL EXPENDITURES	<u>4,000</u>	<u>100,000</u>						<u>100,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Fitzhugh Water Main
 Location: Madrona Park

File Number: wtr015.xls
 UGA Planning Area: Meadows
 Water Plan Project: P-09

CFP Project: Water- 15
 Department: Public Works

Project Description: Upsize a portion of water line through Madrona Park to improve water transmission and relieve locally high pressure.

Project Justification: Increase water transmission capacity.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Design

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

8-20

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	15,000	62,000	425,000					487,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING	<u>15,000</u>	<u>62,000</u>	<u>425,000</u>					<u>487,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	15,000	62,000						62,000	13%	
Land / ROW Acquisition										
Construction			425,000					425,000	87%	
Other ²										
TOTAL EXPENDITURES	<u>15,000</u>	<u>62,000</u>	<u>425,000</u>					<u>487,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Well S07 Rehabilitation
 Location: Bowker St

File Number: wtr016.xls
 UGA Planning Area: Central
 Water Plan Project: WS-09

CFP Project: Water- 16
 Department: Public Works

Project Description: Rehabilitate well S07.

Project Justification: Well S07 has shown signs of sand production and slight declines in specific capacity.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Planning

Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees		50,000	50,000					100,000	100%	
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>50,000</u>	<u>50,000</u>					<u>100,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other ²		50,000	50,000					100,000	100%	
TOTAL EXPENDITURES		<u>50,000</u>	<u>50,000</u>					<u>100,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Well S04 Nitrate Study
 Location: Sarazen St

File Number: wtr017.xls
 UGA Planning Area: Horizons
 Water Plan Project: N/A

CFP Project: Water- 17
 Department: Public Works

Project Description: Study to evaluate nitrate levels in well S04, to determine if remedial action is necessary, and to explore possible source control options.

Project Justification: Well S04 has moderately elevated nitrate levels and the City would like to increase production at this site.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Planning

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue			150,000					150,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING			<u>150,000</u>					<u>150,000</u>	<u>100%</u>	
EXPENDITURES										
Planning			150,000					150,000	100%	
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other ²										
TOTAL EXPENDITURES			<u>150,000</u>					<u>150,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Capitol City Estates Fire-Flow
 Location: Capitol City Estates

File Number: wtr018.xls
 UGA Planning Area: Horizons
 Water Plan Project: P-1

CFP Project: Water- 18
 Department: Public Works

Project Description: Replace water lines throughout Capitol City Estates with larger diameter mains.

Project Justification: The existing lines throughout the Capitol City Estates are at the end of their useful life and are too small to support current fire-flow requirements.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Design

Land Status: Easement

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	82,000	200,000	1,750,000	4,000,000				5,950,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING	<u>82,000</u>	<u>200,000</u>	<u>1,750,000</u>	<u>4,000,000</u>				<u>5,950,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering	82,000	200,000						200,000	3%	
Land / ROW Acquisition										
Construction			1,750,000	4,000,000				5,750,000	97%	
Other										
TOTAL EXPENDITURES	<u>82,000</u>	<u>200,000</u>	<u>1,750,000</u>	<u>4,000,000</u>				<u>5,950,000</u>	<u>100%</u>	

8-23

Notes:

Planning Period: 2019-2038
 Project Title: Well S15/S16 Replacement
 Location: 48th Way

File Number: wtr019.xls
 UGA Planning Area: Hawks Prairi
 Water Plan Project: WS-11

CFP Project: Water- 19
 Department: Public Works

Project Description: Replacement of well S15. Upgrade of structure, control, mechanical, and electrical for well S16. Addition of pH adjustment for both wells.

Project Justification: The existing Beachcrest wells aren't able to produce their full water right due to well inefficiencies. The structures are in need of replacement. pH adjustment is required at this site to address corrosion issues.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Design

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	236,000	444,000	2,000,000	2,000,000	1,020,000			5,464,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING	<u>236,000</u>	<u>444,000</u>	<u>2,000,000</u>	<u>2,000,000</u>	<u>1,020,000</u>			<u>5,464,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design	86,000									
Design & Engineering		444,000	200,000	200,000				844,000	15%	
Land / ROW Acquisition										
Construction	150,000		1,800,000	1,800,000	1,020,000			4,620,000	85%	
Other										
TOTAL EXPENDITURES	<u>236,000</u>	<u>444,000</u>	<u>2,000,000</u>	<u>2,000,000</u>	<u>1,020,000</u>			<u>5,464,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: 337 Zone Reservoir
 Location: Intelco Lp

File Number: wtr020.xls
 UGA Planning Area: Horizons
 Water Plan Project: ST-02

CFP Project: Water- 20
 Department: Public Works

Project Description: Construct a new elevated storage tank, approximately 0.75MG.

Project Justification: Helps to address the storage deficit in the 337 pressure zone, improves system operation, and helps to regulate pressure in the southwest portion of the City.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Preliminary Design

Land Status: City ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		450,000	550,000	3,000,000	3,000,000			7,000,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>450,000</u>	<u>550,000</u>	<u>3,000,000</u>	<u>3,000,000</u>			<u>7,000,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design		450,000						450,000	6%	
Design & Engineering			550,000	200,000	100,000			850,000	12%	
Land / ROW Acquisition										
Construction				2,800,000	2,900,000			5,700,000	81%	
Other ²										
TOTAL EXPENDITURES		<u>450,000</u>	<u>550,000</u>	<u>3,000,000</u>	<u>3,000,000</u>			<u>7,000,000</u>	<u>100%</u>	

Notes: .

Planning Period: 2019-2038
 Project Title: Marvin Rd Well
 Location: Marvin Rd

File Number: wtr021.xls
 UGA Planning Area: Hawks Prairie
 Water Plan Project: WS-04

CFP Project: Water- 21
 Department: Public Works

Project Description: Construct a new well source at the north west corner of Marvin Rd and 41st Ave.

Project Justification: Increases total water production to allow for additional growth and improves source redundancy.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Planning

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		250,000	1,000,000	1,500,000	750,000			3,500,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>250,000</u>	<u>1,000,000</u>	<u>1,500,000</u>	<u>750,000</u>			<u>3,500,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design		250,000						250,000	7%	
Design & Engineering			100,000	100,000				200,000	6%	
Land / ROW Acquisition										
Construction			900,000	1,400,000	750,000			3,050,000	87%	
Other										
TOTAL EXPENDITURES		<u>250,000</u>	<u>1,000,000</u>	<u>1,500,000</u>	<u>750,000</u>			<u>3,500,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Hawks Prairie Tank Repair & Sister Tank
 Location: Marvin Rd

File Number: wtr022.xls
 UGA Planning Area: Hawks Prairie
 Water Plan Project: N/A

CFP Project: Water- 22
 Department: Public Works

Project Description: Construct a new 1.5MG storage tank on the Hawks Prairie site and repair the roof rafters in the existing Hawks Prairie tank.

Project Justification: The existing Hawks Prairie tank is in need of repair due to failed coatings and excessive corrosion. A second smaller tank is needed on-site to provide the needed system storage while the existing tank is off-line for repair.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Planning

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		550,000	2,000,000	2,000,000	2,000,000			6,550,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>550,000</u>	<u>2,000,000</u>	<u>2,000,000</u>	<u>2,000,000</u>			<u>6,550,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering		550,000	200,000	200,000	100,000			1,050,000	16%	
Land / ROW Acquisition										
Construction			1,800,000	1,800,000	1,900,000			5,500,000	84%	
Other ²										
TOTAL EXPENDITURES		<u>550,000</u>	<u>2,000,000</u>	<u>2,000,000</u>	<u>2,000,000</u>			<u>6,550,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: 48th/50th Ave Fire-Flow
 Location: 48th/50th Ave

File Number: wtr023.xls
 UGA Planning Area: Hawks Prairi
 Water Plan Project: P-02

CFP Project: Water- 23
 Department: Public Works

Project Description: Replace the existing water lines in this area of Beachcrest with larger diameter mains to improve fire-flow.

Project Justification: These existing lines are near the end of their useful life and are undersized. The existing lines are not capable of supporting current fire-flow requirements.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Planning

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue				100,000	750,000			850,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING				<u>100,000</u>	<u>750,000</u>			<u>850,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering				100,000				100,000	12%	
Land / ROW Acquisition										
Construction					750,000			750,000	88%	
Other										
TOTAL EXPENDITURES				<u>100,000</u>	<u>750,000</u>			<u>850,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Madrona pH Adjustment
 Location: Milbanke Dr

File Number: wtr024.xls
 UGA Planning Area: Meadows
 Water Plan Project: N/A

CFP Project: Water- 24
 Department: Public Works

Project Description: Construct a corrosion control for the Madrona wellfield to raise the distribution system pH.

Project Justification: pH adjustment for corrosion control is required at this site by the state department of health.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Planning

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		500,000	1,000,000	1,500,000	1,000,000			4,000,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>500,000</u>	<u>1,000,000</u>	<u>1,500,000</u>	<u>1,000,000</u>			<u>4,000,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering		500,000	100,000	100,000	100,000			800,000	20%	
Land / ROW Acquisition										
Construction			900,000	1,400,000	900,000			3,200,000	80%	
Other										
TOTAL EXPENDITURES		<u>500,000</u>	<u>1,000,000</u>	<u>1,500,000</u>	<u>1,000,000</u>			<u>4,000,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Well S01 Replacement
 Location: College Street

File Number: wtr025.xls
 UGA Planning Area: Horizons
 Water Plan Project: WS-12

CFP Project: Water- 25
 Department: Public Works

Project Description: Rehabilitate well S01 and evaluate the need for a replacement well. Add pH adjustment to this site for wells S01, S02, and S03.

Project Justification: The existing well's capacity has significantly declined. pH adjustment for sources at this site is required by the state department of health.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Planning

Land Status: City-owned

PROJECT FUNDING SOURCES AND EXPENDITURES

8-30

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		200,000	500,000	300,000	2,000,000	3,000,000		6,000,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>200,000</u>	<u>500,000</u>	<u>300,000</u>	<u>2,000,000</u>	<u>3,000,000</u>		<u>6,000,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design		200,000						200,000	3%	
Design & Engineering			100,000	300,000	200,000	200,000		800,000	13%	
Land / ROW Acquisition										
Construction			400,000		1,800,000	2,800,000		5,000,000	83%	
Other										
TOTAL EXPENDITURES		<u>200,000</u>	<u>500,000</u>	<u>300,000</u>	<u>2,000,000</u>	<u>3,000,000</u>		<u>6,000,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Well S04 Expansion
 Location: Sarazen Dr

File Number: wtr026.xls
 UGA Planning Area: Horizons
 Water Plan Project: WS-03

CFP Project: Water- 26
 Department: Public Works

Project Description: Construct a second well near the existing S04 site and expand the existing corrosion control facility.

Project Justification: A second well at this location will allow for a greater instantaneous pumping capacity and allow the City to better meet peak summer water demand.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Planning

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

8-31

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue				500,000	500,000	2,000,000		3,000,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING				<u>500,000</u>	<u>500,000</u>	<u>2,000,000</u>		<u>3,000,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering				500,000	200,000	200,000		900,000	30%	
Land / ROW Acquisition										
Construction					300,000	1,800,000		2,100,000	70%	
Other ²										
TOTAL EXPENDITURES				<u>500,000</u>	<u>500,000</u>	<u>2,000,000</u>		<u>3,000,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Well S09 Treatment Study
 Location: Little Prairie

File Number: wtr0271.xls
 UGA Planning Area: Horizons
 Water Plan Project: N/A

CFP Project: Water- 27
 Department: Public Works

Project Description: This is a study to evaluate the need for and the feasibility of adding treatment for well S09.

Project Justification: Well S09 has historically been a reliable production well but suffers from elevated iron and manganese. This causes customer complaints and increased water line flushing. Adding treatment to well S09 would improve water quality in the Southwest portion of the City.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Planning

Land Status: Easement

PROJECT FUNDING SOURCES AND EXPENDITURES

8-32

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue						150,000	150,000	300,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING						<u>150,000</u>	<u>150,000</u>	<u>300,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design						150,000	150,000	300,000	100%	
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other										
TOTAL EXPENDITURES						<u>150,000</u>	<u>150,000</u>	<u>300,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Meridian Campus Well
 Location: Deni Dr

File Number: wtr028.xls
 UGA Planning Area: Hawks Prairie
 Water Plan Project: N/A

CFP Project: Water- 28
 Department: Public Works

Project Description: Construct a new water well and treatment facility at the Meridian Campus site.

Project Justification: This new well and treatment facility are needed to accommodate future growth.

Policy Basis: 2013 Comprehensive Water Plan

Current Project Status: Planning

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

8-33

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue					150,000	850,000	250,000	1,250,000	100%	4,750,000
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING					<u>150,000</u>	<u>850,000</u>	<u>250,000</u>	<u>1,250,000</u>	<u>100%</u>	<u>4,750,000</u>
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering					150,000	100,000	250,000	500,000	40%	250,000
Land / ROW Acquisition										
Construction						750,000		750,000	60%	4,500,000
Other										
TOTAL EXPENDITURES					<u>150,000</u>	<u>850,000</u>	<u>250,000</u>	<u>1,250,000</u>	<u>100%</u>	<u>4,750,000</u>

Notes:

Planning Period: 2019-2038
 Project Title: Evergreen pH Adjustment
 Location: Hibiscus Ct

File Number: wtr029.xls
 UGA Planning Area: Seasons
 Water Plan Project: N/A

CFP Project: Water- 29
 Department: Public Works

Project Description: Construct a corrosion control facility for well S27 to increase pH.

Project Justification: Well S27 has slightly corrosive water quality characteristics and may be required to have treatment for pH adjustment. The need for this project will be verified with distribution system monitoring after the Madrona pH adjustment facility is operational to determine if there is sufficient water blending in the distribution system.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Planning

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue							500,000	500,000	100%	3,500,000
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING							<u>500,000</u>	<u>500,000</u>	<u>100%</u>	<u>3,500,000</u>
EXPENDITURES										
Planning										
Preliminary Design							250,000	250,000	50%	
Design & Engineering							250,000	250,000	50%	250,000
Land / ROW Acquisition										
Construction										3,250,000
Other ²										
TOTAL EXPENDITURES							<u>500,000</u>	<u>500,000</u>	<u>100%</u>	<u>3,500,000</u>

Notes:

Planning Period: 2019-2038
 Project Title: Brewery Wellfield Development
 Location: Tumwater

File Number: wtr031.xls
 UGA Planning Area: N/A
 Water Plan Project: WS-2

CFP Project: Water- 30
 Department: Public Works

Project Description: This project will reactivate the Olympia Brewery wellfield that was jointly acquired by Lacey, Olympia, and Tumwater. This is expected to include new wells, treatment facilities, booster pump stations, and transmission piping. This will also require significant negotiation and coordination with the other cities.

Project Justification: This wellfield will provide additional water supply to allow for future growth.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Planning

Land Status: To be determined

PROJECT FUNDING SOURCES AND EXPENDITURES

8-35

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue			50,000	50,000	200,000	200,000	200,000	700,000	100%	2,600,000
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING			<u>50,000</u>	<u>50,000</u>	<u>200,000</u>	<u>200,000</u>	<u>200,000</u>	<u>700,000</u>	<u>100%</u>	<u>2,600,000</u>
EXPENDITURES										
Planning			50,000	50,000				100,000	14%	
Preliminary Design					200,000			200,000	29%	
Design & Engineering						200,000	200,000	400,000	57%	
Land / ROW Acquisition										
Construction										2,600,000
Other										
TOTAL EXPENDITURES			<u>50,000</u>	<u>50,000</u>	<u>200,000</u>	<u>200,000</u>	<u>200,000</u>	<u>700,000</u>	<u>100%</u>	<u>2,600,000</u>

Notes:

Planning Period: 2019-2038
 Project Title: Critical Valves
 Location: Various

File Number: wtr031.xls
 UGA Planning Area: All
 Water Plan Project: P-12

CFP Project: Water- 31
 Department: Public Works

Project Description: This is a recurring budget allocation to replace and install new water valves throughout the distribution system.

Project Justification: Water valves are needed at critical junctions throughout the water distribution system to allow for unidirectional flushing and to allow for small sections of water line to be shutdown and isolated for repair or in case of an emergency. These valves reduce the number of customers impacted during a shutdown.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Recurring

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

8-36

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees		200,000	100,000	100,000	100,000	100,000	100,000	700,000	100%	
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>200,000</u>	<u>100,000</u>	<u>100,000</u>	<u>100,000</u>	<u>100,000</u>	<u>100,000</u>	<u>700,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			20,000	20,000	20,000	20,000	20,000	100,000	14%	
Land / ROW Acquisition										
Construction		200,000	80,000	80,000	80,000	80,000	80,000	600,000	86%	
Other										
TOTAL EXPENDITURES		<u>200,000</u>	<u>100,000</u>	<u>100,000</u>	<u>100,000</u>	<u>100,000</u>	<u>100,000</u>	<u>700,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Water Right Mitigation
 Location: Various

File Number: wtr032.xls
 UGA Planning Area: All
 Water Plan Project: WS-6

CFP Project: Water- 32
 Department: Public Works

Project Description: This is a recurring budget allocation to manage and address water rights mitigation issues.

Project Justification: Water rights mitigation is a state department of ecology requirement.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Recurring

Land Status: Various

PROJECT FUNDING SOURCES AND EXPENDITURES

8-37

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		197,000	85,000	85,000	85,000	85,000	85,000	622,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>197,000</u>	<u>85,000</u>	<u>85,000</u>	<u>85,000</u>	<u>85,000</u>	<u>85,000</u>	<u>622,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other ²		197,000	85,000	85,000	85,000	85,000	85,000	622,000	100%	
TOTAL EXPENDITURES		<u>197,000</u>	<u>85,000</u>	<u>85,000</u>	<u>85,000</u>	<u>85,000</u>	<u>85,000</u>	<u>622,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Smith Farm Management
 Location: Deschutes Watershed

File Number: wtr033.xls
 UGA Planning Area: N/A
 Water Plan Project: WS-7

CFP Project: Water- 33
 Department: Public Works

Project Description: This project is to provide riparian habitat improvement and on-going property management in the Deschutes watershed for water right mitigation.

Project Justification: Water right mitigation is a state department of ecology requirement.

Policy Basis: 2013Comprehensive Water Plan

Current Project Status: Recurring

Land Status: City Owned

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue	92,000	444,000	20,000	20,000	20,000	20,000	20,000	544,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING	<u>92,000</u>	<u>444,000</u>	<u>20,000</u>	<u>20,000</u>	<u>20,000</u>	<u>20,000</u>	<u>20,000</u>	<u>544,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other ²	<u>92,000</u>	<u>444,000</u>	<u>20,000</u>	<u>20,000</u>	<u>20,000</u>	<u>20,000</u>	<u>20,000</u>	<u>544,000</u>	<u>100%</u>	
TOTAL EXPENDITURES	<u>92,000</u>	<u>444,000</u>	<u>20,000</u>	<u>20,000</u>	<u>20,000</u>	<u>20,000</u>	<u>20,000</u>	<u>544,000</u>	<u>100%</u>	

Notes:

8-38

Planning Period: 2019-2038
 Project Title: Transportation Related Improvements
 Location: Various

File Number: wtr034.xls
 UGA Planning Area: All
 Water Plan Project: N/A

CFP Project: Water- 34
 Department: Public Works

Project Description: This is a recurring budget allocation to relocate or improve water distribution infrastructure that is in conflict with transportation and road improvement projects.

Project Justification: This allows for coordination with transportation projects.

Policy Basis: Best Management Practices

Current Project Status: Recurring

Land Status: Public ROW

PROJECT FUNDING SOURCES AND EXPENDITURES

8-39

FUNDING	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		150,000	150,000	150,000	150,000	150,000	150,000	900,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		150,000	150,000	150,000	150,000	150,000	150,000	900,000	100%	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction		150,000	150,000	150,000	150,000	150,000	150,000	900,000	100%	
Other ²										
TOTAL EXPENDITURES		150,000	150,000	150,000	150,000	150,000	150,000	900,000	100%	

Notes:

Planning Period: 2019-2038
 Project Title: Development Related Improvements
 Location: Various

File Number: wtr035.xls
 UGA Planning Area: All
 Water Plan Project: N/A

CFP Project: Water- 35
 Department: Public Works

Project Description: This is a recurring budget allocation to allow for water line upsizing, looping, and other minor improvements to be made by developers where they are not specifically required to make these improvements as part of their project but there is a benefit to the distribution system.

Project Justification: This allows for small improvements to be made during site development that might not otherwise be feasible or cost effective.

Policy Basis: Best Management Practices

Current Project Status: Recurring

Land Status: Various

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue		150,000	150,000	150,000	150,000	150,000	150,000	900,000	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING		<u>150,000</u>	<u>150,000</u>	<u>150,000</u>	<u>150,000</u>	<u>150,000</u>	<u>150,000</u>	<u>900,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction		150,000	150,000	150,000	150,000	150,000	150,000	900,000	100%	
Other										
TOTAL EXPENDITURES		<u>150,000</u>	<u>150,000</u>	<u>150,000</u>	<u>150,000</u>	<u>150,000</u>	<u>150,000</u>	<u>900,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Annual Pipeline Improvements
 Location: Various

File Number: wtr036.xls
 UGA Planning Area: All
 Water Plan Project: P-9

CFP Project: Water- 36
 Department: Public Works

Project Description: This is a recurring budget allocation dedicated to pipe upsizing and looping to improve water transmission throughout the distribution system.

Project Justification: Improving water transmission capabilities helps to moderate pressure fluctuations, increases water production capability, reduces operational complexity, and improves system redundancy.

Policy Basis: 2013 Comprehensive Water Plan

Current Project Status: Recurring

Land Status: Various

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue			100,000	1,000,000	100,000	1,000,000	100,000	2,300,000	100%	1,000,000
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING			<u>100,000</u>	<u>1,000,000</u>	<u>100,000</u>	<u>1,000,000</u>	<u>100,000</u>	<u>2,300,000</u>	<u>100%</u>	<u>1,000,000</u>
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			100,000		100,000		100,000	300,000	13%	
Land / ROW Acquisition										
Construction				1,000,000		1,000,000		2,000,000	87%	1,000,000
Other										
TOTAL EXPENDITURES			<u>100,000</u>	<u>1,000,000</u>	<u>100,000</u>	<u>1,000,000</u>	<u>100,000</u>	<u>2,300,000</u>	<u>100%</u>	<u>1,000,000</u>

Notes:

Planning Period: 2019-2038
 Project Title: Annual Waterline Replacement
 Location: Various

File Number: wtr037.xls
 UGA Planning Area: All
 Water Plan Project: P-8

CFP Project: Water- 37
 Department: Public Works

Project Description: This is a recurring budget allocation to replace existing water lines that are at the end of their useful life or need other forms of repair and rehabilitation.

Project Justification: Ensures that infrastructure is in good condition and reduces catastrophic failures and emergency repairs.

Policy Basis: 2013 Comprehensive Water Plan

Current Project Status: Recurring

Land Status: Various

PROJECT FUNDING SOURCES AND EXPENDITURES

8-42

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees			1,100,000	1,100,000	1,100,000	1,100,000	1,100,000	5,500,000	100%	
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING			<u>1,100,000</u>	<u>1,100,000</u>	<u>1,100,000</u>	<u>1,100,000</u>	<u>1,100,000</u>	<u>5,500,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			100,000	100,000	100,000	100,000	100,000	500,000	9%	
Land / ROW Acquisition										
Construction			1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000	91%	
Other										
TOTAL EXPENDITURES			<u>1,100,000</u>	<u>1,100,000</u>	<u>1,100,000</u>	<u>1,100,000</u>	<u>1,100,000</u>	<u>5,500,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: Well Rehabilitation
 Location: Various

File Number: wtr038.xls
 UGA Planning Area: All
 Water Plan Project: WS-9

CFP Project: Water- 38
 Department: Public Works

Project Description: Recuring funding to monitor groundwater wells for reductions in specific capacity, sand, and biofouling; and to rehabilitate them as needed.

Project Justification: Groundwater wells require recurring maintenance to remain productive.

Policy Basis: 2013 Comprehensive Water Plan

Current Project Status: Planning

Land Status: Various

PROJECT FUNDING SOURCES AND EXPENDITURES

8-43

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees			100,000	100,000	100,000	100,000	100,000	500,000	100%	
GFC Revenue										
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING			<u>100,000</u>	<u>100,000</u>	<u>100,000</u>	<u>100,000</u>	<u>100,000</u>	<u>500,000</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering			20,000	20,000	20,000	20,000	20,000	100,000	20%	
Land / ROW Acquisition										
Construction										
Other			80,000	80,000	80,000	80,000	80,000	400,000	80%	
TOTAL EXPENDITURES			<u>100,000</u>	<u>100,000</u>	<u>100,000</u>	<u>100,000</u>	<u>100,000</u>	<u>500,000</u>	<u>100%</u>	

Notes:

Planning Period: 2019-2038
 Project Title: AMR System
 Location: Various

File Number: wtr039.xls
 UGA Planning Area: All
 Water Plan Project:

CFP Project: Water- 39
 Department: Finance

Project Description: Analysis for new automated meter reading system.

Project Justification:

Policy Basis: 2013 Comprehensive Water Plan

Current Project Status: Planning

Land Status: Various

PROJECT FUNDING SOURCES AND EXPENDITURES

	<u>Prior Years</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>6-Year Total</u>	<u>%</u>	<u>Future Years</u>
FUNDING										
General Revenue										
Voted G.O. Bonds										
Non-Voted G.O. Bonds										
Revenue Bonds										
Utility Rates / Fees										
GFC Revenue						6,799,278		6,799,278	100%	
LID / ULID										
Arterial Street Fund										
PWTF Loan										
Interfund Loan										
Grants										
SEPA / LTA										
Developer Financing										
Other ¹										
TOTAL FUNDING						<u>6,799,278</u>		<u>6,799,278</u>	<u>100%</u>	
EXPENDITURES										
Planning										
Preliminary Design										
Design & Engineering										
Land / ROW Acquisition										
Construction										
Other						6,799,278			100%	
TOTAL EXPENDITURES						<u>6,799,278</u>		<u>6,799,278</u>	<u>100%</u>	

Notes:

- 2) Provide a safe, consistent, and efficient supply of high quality water to the customers.
- 3) Increase source reliability to meet DOH recommended design criteria.
- 4) Construct water supply, distribution, transmission and storage improvements to meet City wide water demands.
- 5) Upgrade and replace aging water mains and facilities.
- 6) Provide a financing plan for the Capital improvement Program to meet projected growth and water system needs.

The financing plan for the first six years of the Water Element of this Capital Facilities Plan is illustrated in The Water Projects Summary Sheet.

Meeting Demands of Population Growth

In 2005, Resolution 917 was adopted to place restrictions on new water system connections in the Urban Growth Area (UGA), pending additional water right authorizations from the Department of Ecology. After Ecology issued new water rights in 2011-2012, Lacey adopted its 2013 Comprehensive Water Plan and rescinded Resolution 917 in May 2013. The City is now authorized to withdraw up to 23,511 gpm and 16,798.2 Acre-feet per year. Mitigation is required to fully use the water rights acquired in 2011-2012.

The water utility continues to anticipate strong long-term residential and commercial growth. This could drive average daily water demands as high as 11.60 million gallons by the year 2029, a 51% increase from 2011 demands. Now that the City has acquired several new water rights, the focus of the utility shifts to developing the infrastructure needed to meet those demands. Many of the projects listed in this plan are critical to achieving that goal.