

St. Helena, California

Capital Improvement Plan

2015-2020



Safety



Infrastructure



Community

Adopted June 23, 2015



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INTRODUCTION

The City of St. Helena’s five-year Capital Improvement Plan (CIP) is a multi-year planning instrument to guide the construction of new facilities/infrastructure; and for the expansion, rehabilitation or replacement of existing City-owned assets. The five-year CIP is developed by City Staff and adopted City Council, then becomes the guiding document for the prioritization of projects.

The information included in the CIP is based on the current information available and updated regularly to reflect changing priorities, funding availability and project completion. A new five-year CIP will be submitted to City Council annually with recommended adjustments to project budgets, funding sources, descriptions, and/or schedules. Inclusion of a project in the CIP does not commit the City to specific expenditures or appropriations for any particular project.

The CIP includes all projects and programs expected to be undertaken during the next five fiscal years. Specific projects and related schedules are selected based upon:

- Implementation of the City’s General Plan
- Availability of funding
- Minimizing disruptions associated with construction activity
- City Council direction

Approximately \$15.2 million CIP programs and projects over the next five years have been identified. The estimated project expenditures planned for the five-year CIP are broken into four major categories: Civic, Streets, Wastewater, and Water. The following table includes an overview of funding by project category for FY 15/16 – FY 19/20.

FY 15/16 – FY 19/20 Capital Improvement Plan						
Funding by Project Category						
	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	Five Year Total
Civic	\$588,284	\$20,000	\$20,000	\$20,000	\$20,000	\$668,284
Streets	\$535,367	\$430,000	\$430,000	\$880,000	\$880,000	\$3,155,367
Wastewater	\$564,205	\$895,000	\$365,000	\$35,000	\$135,000	\$1,994,205
Water	\$5,107,802	\$4,045,543	\$70,560	\$70,560	\$70,560	\$9,365,025
Total	\$6,795,658	\$5,390,543	\$885,560	\$1,005,560	\$1,105,560	\$15,182,181

A QUICK LOOK AT INFRASTRUCTURE

What is infrastructure, and why is it important?

Infrastructure includes the basic physical structures, systems, and facilities needed to provide services to residents and for the functioning of a community and its economy; such as sidewalks, streets, parks, fire stations, police facilities, and the water and wastewater systems. Infrastructure impacts public health, safety, and the quality of life for residents of St. Helena as well as other industries which are an important part of the City's economy. Decisions made regarding infrastructure projects are very important because they are generally large and expensive, and the assets created will require decades of public use.

What infrastructure is within the City's area of responsibility?

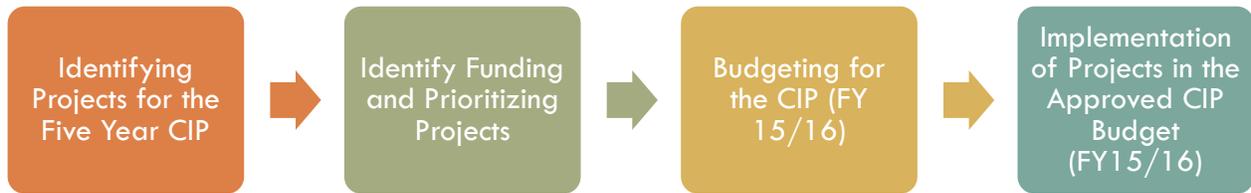
The City of St. Helena is responsible for maintaining storm drains, streets, water treatment and distribution system, wastewater collection and treatment system, parks, and City government buildings and facilities. Napa County, State of California, and U.S. governments may also have responsibility for certain assets within the City of St. Helena. For example, the California Department of Transportation (Caltrans) has jurisdiction and responsibility for State Route 29 (Main Street).

What happens when infrastructure assets are not maintained?

Providing ongoing maintenance and repair, such as resurfacing streets and repairing or replacing water and wastewater piping, is vital for maintaining the condition of assets. When maintenance and repair is not fully funded, deferred maintenance and capital improvement costs increase significantly. The City has not fully funded maintenance and repair due to tight budgetary constraints and competing priorities for several years. As a result the City now has a multi-million dollar backlog in deferred maintenance of storm drains, streets, water treatment and distribution system, wastewater collection and treatment system, parks, and City government buildings and facilities. For example, the 2014 Pavement Management Program Update calculated a \$6.2 million backlog for street maintenance in St. Helena. Without adequate investment, these deferred maintenance costs will increase significantly over time.

Compounding the problem, as assets continue to deteriorate, the cost of repair exponentially increases and can result in peripheral damage. For example, deferring roof replacement could later result in needing to replace the roof structural members, walls, and floor of a building.

How does the CIP process work?



FUNDING SOURCES

The Five-Year CIP is funded by various unrestricted and restricted funds. Unrestricted funds are free from external restrictions and can be used for any purpose, as directed by the City Council. The City's General Fund is an unrestricted fund. The General Fund is made up of funding from property tax revenues, sales tax, and transient occupancy taxes. Restricted funds are legally required to be used for a specific purpose. For example, water enterprise funds can only be used to operate, maintain, and improve the City's water treatment and distribution system. Other examples of restricted funding sources include local, state, and federal grants; and wastewater enterprise funds. A detailed description of the various funding sources is presented in the following table.

Funding Source	Description and Restrictions
Gas Tax	Description:
	The Gas Tax Fund collects revenue resulting from a tax on the sale of gasoline. The City's share of gas tax revenue is based on a formula that takes into account vehicle registration, assessed property valuation, and population.
Gas Tax	Restrictions:
	These funds must be used to perform research, planning, construction, improvement, maintenance, and operation of public streets and highways (and their related public facilities for non-motorized traffic), including the mitigation of their environmental effects, the payment for property taken or damaged for such purposes, and the administrative costs necessarily incurred in the foregoing purposes. There are currently five separate Gas Tax funds each with additional specific criteria.

General Fund	Description:
	The primary reporting vehicle for current government revenues and operations, this fund accounts for all financial resources not required by law or City Council actions to be accounted for in another fund.
	Restrictions:
	General Fund monies are one of the least restrictive funding sources, funding can be used for salaries, capital improvements, supplies and other municipal related expenses.
Grant Funding	Description:
	Some projects are entirely or partially funded by grants and reimbursements from the State and federal government, as well as other agencies.
	Restrictions:
	Funding restrictions related to grant funding can vary greatly, and each grant will have specific project restrictions related to the funding source.
Impact Fees	Description:
	In 2013, the City retained Colgan Consulting Corporation to prepare an impact fee study, analyzing the impact of development on certain capital facilities and to calculate impact fees based on that analysis. The methods used to calculate impact fees in the study were intended to satisfy all legal requirements.
	Restrictions:
	By Law impact fees can only be collected to cover the impact of new development on existing infrastructure. Impact fees cannot be used to correct “existing deficiencies”.
	CIVIC IMPACT: This fund is used to accumulate restricted funds from new development’s proportionate share of the depreciated replacement cost of a range of facility types including City Hall, corporation yard facilities, as well as library and recreation facilities.
	PUBLIC SAFETY IMPACT FEES: Section 22.5 of the City Code establishes this fund to accumulate revenues from fees on building permits to be used solely for equipment and facilities’ costs for Police and the Fire Departments. Vehicles, capital equipment, and building improvements are approved uses.
	PARK IMPACT: This fund is used to accumulate funds from new or proposed residential development solely for park land acquisition and park improvements.
	TRAFFIC MITIGATION (STREET) IMPACT: This fund is used to

	<p>accumulate funds from new or proposed development to pay for circulation improvements to reduce the impacts of traffic generated by new development within the City.</p> <p>WATER IMPACT: This fund is used to accumulate funds from new or proposed development to pay for Water System Capital Improvements needed to support new development.</p> <p>WASTEWATER (SEWER) IMPACT: This fund is established to account for the costs of constructing and improving the Wastewater Treatment Plant and Sewer Collection System in order to support new development.</p>
Measure T	<p>Description:</p> <p>Measure T resulted in a countywide half-cent sales tax increase. Money generated from the sales tax increase will be used for road repairs in the county. The amount raised by the tax is expected to be about \$300 million countywide and St. Helena will receive 5.9% of the annual revenues. Funding from Measure T will first be available to the City in 2018 and the tax will expire in 25 years.</p>
	<p>Restrictions:</p> <p>Measure T requires that 99% of the funds raised be spent on street maintenance and rehabilitation and only 1% can be used for administrative and reporting costs. The funds cannot be used for new roads or congestion relief —the tax is only for maintenance of local streets. Funds cannot be used to offset current City funding for road maintenance.</p>
Wastewater Utility	<p>Description:</p> <p>This fund is used to account for the costs of providing sewer services to the general public on a continuing basis. The intent is to recover costs through user charges and fees.</p>
	<p>Restrictions:</p> <p>The fund is operated in a manner similar to a private business enterprise. Funding must be used to operate, maintain, and improve the sewer system and cannot be used for other purposes.</p>
Water and Wastewater Bonds	<p>Description:</p> <p>California Statewide Communities Development authority Water and Wastewater revenue bonds Series 2012B.</p>
	<p>Restrictions:</p> <p>Funds must be expended in accordance with project descriptions in the official Statement for the bond issuance, dated May 30, 2012.</p>
Water	<p>Description:</p>

Utility	This fund is used to account for the costs of providing water services to the general public on a continuing basis. The intent is to recover costs through user charges and fees.
	<p>Restrictions:</p> <p>The fund is operated in a manner similar to a private business enterprise. Funding must be used to operate, maintain, and improve the water system and cannot be used for other purposes.</p>

IMPORTANT FACTS: CIP FUNDING

- In addition to one-time construction projects, the CIP also includes ongoing maintenance and repair programs and projects. These are typically smaller projects that are expected to last for less than one year.
- The City uses “phased funding” for certain complex or expensive CIP projects. For example, a project will be started when it has sufficient funds to complete planning and design. The remaining funds needed for project completion are shown in the budget as “unidentified funding.” It is anticipated that funding to complete the construction of the project will be identified when it is needed in a future fiscal year. In some cases, funding cannot be identified when needed, resulting in a project being put on hold. The projects are generally shown in the CIP budget as “unfunded or underfunded.”
- Unless additional revenue sources are pursued, the General Fund and Water Enterprise Fund are projected to have annual operating deficits for the foreseeable future. For this reason, Capital Projects in these two categories are funded from the existing CIP fund balance and no new transfers from the General Fund or Water Enterprise Fund are proposed at this time.
- New or expanded infrastructure will frequently increase operations and maintenance costs for the asset-owning department, thus impacting the General Fund.
- The last CIP was adopted in 2012 and over the past several years funding and priorities have shifted dramatically. This is not a complete list of all the capital or infrastructure needs for the City, but the CIP is a planning tool to help guide decision making on capital projects.

PROJECT CATEGORY SUMMARIES

CIVIC

The Civic Improvements category comprises general government projects that focus on constructing or improving existing facilities and buildings. These projects cover all departments and focus on a variety of improvements. Funding for Civic Improvements is comprised of General Fund, grants and special restricted fund such as: the Bocce Fund or the Ryan Library Trust. At this time there is minimal funding in the special restricted funds, and no projects are planned to utilize the special restricted funding sources. The table below summarizes the funding source for Civic projects by fiscal year.

CIVIC FUNDING BY SOURCE							
Funding Source	<u>FY15/16</u>	<u>FY16/17</u>	<u>FY17/18</u>	<u>FY18/19</u>	<u>FY19/20</u>	<u>Total</u>	<u>%</u>
General Fund	\$588,284	\$20,000	\$20,000	\$20,000	\$20,000	\$668,284	100%
Total	\$588,284	\$20,000	\$20,000	\$20,000	\$20,000	\$668,284	100%

Civic improvement projects programmed in the Capital Improvement Plan, 2015-2020 are listed below. A project is only listed if there is funding programmed during Fiscal Year 2015/16 through Fiscal Year 2019/20, or if the project was listed in the current CIP and is being deferred to future years. Projects from prior CIPs that have been completed are listed in Appendix A. Detailed project costs estimates with expenditure plans for each project listed below are included in Appendix B.

CIVIC

PROJECT NUMBER	PROJECT NAME	FY 15/16 BUDGET	ESTIMATED EXPENDITURES 2015-2020	TOTAL ESTIMATED PROJECT COSTS	UNFUNDED AMOUNT	NOTES
C-09	Signorelli Barn		\$0	TBD		The funding for this project has been reallocated to other Civic Projects
C-11	General Plan Update			N/A		Project moved to the Operating Budget
C-19	Misc. Building Repairs	\$20,000	\$100,000	\$144,858		
C-46	Softball Lights	\$20,000	\$20,000	\$20,000		
C-62	Library HVAC System	\$81,284	\$81,284	\$628,945		
C-69	Library Roof Repairs	\$71,000	\$71,000	\$71,000		
C-71	Wappo Dog Park Water Fountain		\$0	\$5,000	\$5,000	
C-75	City Hall/Police Facility		\$0	TBD		Project is unfunded at this time
C-79	Deferred Maintenance			N/A		Project moved to the Operating Budget
C-80	Shooting Range Cleanup	\$100,00	\$100,00	\$100,000		
C-82	Downtown Restrooms	\$296,000	\$296,000	\$296,000		
Total		\$588,284	\$668,284	\$1,265,803		

STREETS

The Streets category includes projects that upgrade and maintain pavement, striping, curb and gutter, street lighting, access ramps, sidewalks and storm drain infrastructure. Funding for Streets is comprised of General Fund, Gas Tax, grants, sales tax, Measure T (funding beginning in 2018) and development impact fees. The table below summarizes the funding source for Streets projects by fiscal year.

Streets							
	<u>FY15/16</u>	<u>FY16/17</u>	<u>FY17/18</u>	<u>FY18/19</u>	<u>FY19/20</u>	<u>Total</u>	<u>%</u>
Gas Tax	\$395,323	\$280,000	\$280,000	\$155,000	\$155,000	\$1,265,323	40%
General Fund	\$0	\$0	\$0	\$125,000	\$125,000	\$250,000	8%
Grant-TFCA	\$30,000	\$0	\$0	\$0	\$0	\$30,000	1%
Grant-TDA	\$107,278	\$0	\$0	\$0	\$0	\$107,278	3%
Street Impact Fee	\$2,766	\$0	\$0	\$0	\$0	\$2,766	0%
Measure T	\$0	\$0	\$0	\$600,000	\$600,000	\$1,200,000	38%
Grant-STIP	\$0	\$150,000	\$150,000	\$0	\$0	\$300,000	10%
Total	\$535,367	\$430,000	\$430,000	\$880,000	\$880,000	\$3,155,367	100%

Street improvement projects programmed in the Capital Improvement Plan, 2015-2020 are listed below. A project is only listed if there is funding programmed during Fiscal Year 2015/16 through Fiscal Year 2019/20, or if the project was listed in the current CIP and is being deferred to future years. Projects from prior CIPs that have been completed are listed in Appendix A. Detailed project costs estimates with expenditure plans for each project listed below are included in Appendix B.

STREETS

PROJECT NUMBER	PROJECT NAME	FY 15/16 BUDGET	ESTIMATED EXPENDITURES 2015-2020	TOTAL ESTIMATED PROJECT COSTS	UNFUNDED AMOUNT	NOTES
R-05	Main Street Mills Lane/Grayson	\$2,766	\$302,766	\$441,106		
R-15	Access Ramps	\$10,000	\$50,000	\$50,000		
R-25	Pinot/Sylvaner Alley		\$0	TBD		Project is unfunded at this time
R-29	Curb, Gutter & Sidewalk Repair	\$20,000	\$100,000	\$100,000		
R-30	Pope Street Bike Lane	\$30,000	\$30,000	\$50,000		
R-34	Downtown Sidewalk Acquisition		\$0	TBD		Project is unfunded at this time
R-38	Downtown Renaissance		\$0	TBD		Project is unfunded at this time
R-73	Hunt Ave & RLS Bike/Ped Improvements	\$0	\$400,000	\$400,000	\$400,000	A grant has been submitted for this project, but it is currently unfunded
R-74	2015 Pavement Rehabilitation	\$276,601	\$2,476,601	\$2,476,601		
R-75	Valley View Street Bike Lanes	\$70,000	\$70,000	\$70,000		
R-76	Mitchell Street Sidewalk	\$126,000	\$126,000	\$126,000		
Total		\$535,367	\$3,555,367	\$3,713,707		

***Projects R-49 through R-68 were identified as individual projects in the previous CIP. As funding becomes available these projects will be grouped as one capital project.**

WASTEWATER

Wastewater collection and treatment includes projects focused on upgrading and improving the infrastructure of the wastewater system. Many of the improvements that have been identified as maintenance needs were identified through the Sewer System Management Plan (SSMP) updated in 2014. In addition to the needs identified in the SSMP, the City complies with all Regional Water Quality Control Board directives and regulatory permits. Funding for Wastewater is comprised of Wastewater rates (paid by consumers) and development impact fees. Wastewater is an enterprise fund and all improvements are planned to be constructed without General Fund contributions. The table below summarizes the funding source for Wastewater projects by fiscal year.

Wastewater							
	<u>FY15/16</u>	<u>FY16/17</u>	<u>FY17/18</u>	<u>FY18/19</u>	<u>FY19/20</u>	<u>Total</u>	<u>%</u>
Wastewater Utility	\$501,040	\$856,750	\$310,250	\$29,750	\$114,750	\$1,812,540	91%
Wastewater Impact Fee	\$37,800	\$38,250	\$54,750	\$5,250	\$20,250	\$156,300	8%
Bonds	\$25,365	\$0	\$0	\$0	\$0	\$25,365	1%
Total	\$564,205	\$895,000	\$365,000	\$35,000	\$135,000	\$1,994,205	100%

Wastewater improvement projects programmed in the Capital Improvement Plan, 2015-2020 are listed below. A project is only listed if there is funding programmed during Fiscal Year 2015/16 through Fiscal Year 2019/20, or if the project was listed in the current CIP and is being deferred to future years. Projects from prior CIPs that have been completed are listed in Appendix A. Detailed project costs estimates with expenditure plans for each project listed below are included in Appendix B.

WASTEWATER

PROJECT NUMBER	PROJECT NAME	FY 15/16 BUDGET	ESTIMATED EXPENDITURES 2015-2020	TOTAL ESTIMATED PROJECT COSTS	UNFUNDED AMOUNT	NOTES
S-09	Recycled Water (Tertiary Treatment)		\$0		TBD	Project is unfunded at this time
S-16	Misc. Maintenance Projects	\$35,000	\$175,000	\$175,000	\$0	
S-47	Regulatory Compliance Permit Renewal	\$32,205	\$32,205	\$32,205	\$0	
S-50	Algae Removal Device	\$0	\$100,000	\$1,000,000	\$900,000	
S-52	Construct Solids Management Ponds	\$60,000	\$600,000	\$600,000	\$0	
S-53	Reclamation Field Improvements	\$142,000	\$142,000	\$142,000	\$0	
S-59	Split Pond 3	\$0	\$110,000	\$110,000	\$0	
S-61	Pond 2 & 3 Levee	\$60,000	\$60,000	\$60,000	\$0	
S-62	Automation for Disinfection and Dechlorination	\$50,000	\$150,000	\$150,000	\$0	
S-64	Oak Avenue Sewer Line Replacement	\$0	\$365,000	\$365,000	\$0	
S-65	Improve Solids Management Ponds	\$45,000	\$45,000	\$45,000	\$0	
S-66	New Well	\$65,000	\$65,000	\$65,000	\$0	
S-67	Sludge Removal	\$75,000	\$150,000	\$150,000	\$0	
Total		\$564,205	\$1,994,205	\$2,894,205		

WATER

The Water category includes projects that support delivery of water throughout the city, upgrading infrastructure and improvements to existing water system. The City complies with all applicable local, state and federal regulations related to water. Funding for Water is comprised of Water rates (paid by consumers), bonds, grants, and development impact fees. Water is an enterprise fund and all improvements are planned to be constructed without General Fund contributions. The table below summarizes the funding source for Water projects by fiscal year.

Water							
	<u>FY15/16</u>	<u>FY16/17</u>	<u>FY17/18</u>	<u>FY18/19</u>	<u>FY19/20</u>	<u>Total</u>	<u>%</u>
Water Utility	\$853,984	\$1,351,530	\$35,280	\$35,280	\$35,280	\$2,311,354	25%
Water Bond	\$2,190,242	\$713,158	\$0	\$0	\$0	\$2,903,400	31%
Water Impact Fee	\$316,750	\$239,030	\$35,280	\$35,280	\$35,280	\$661,620	7%
Unfunded	\$852,888	\$847,887	\$0	\$0	\$0	\$1,695,775	18%
Grants	\$893,938	\$893,938	\$0	\$0	\$0	\$1,787,876	19%
Total	\$5,107,802	\$4,045,543	\$70,560	\$70,560	\$70,560	\$9,360,025	100%

Water improvement projects programmed in the Capital Improvement Plan, 2015-2020 are listed below. A project is only listed if there is funding programmed during Fiscal Year 2015/16 through Fiscal Year 2019/20, or if the project was listed in the current CIP and is being deferred to future years. Projects from prior CIPs that have been completed are listed in Appendix A. Detailed project costs estimates with expenditure plans for each project listed below are included in Appendix B.

WATER

PROJECT NUMBER	PROJECT NAME	FY 15/16 BUDGET	ESTIMATED EXPENDITURES 2015-2020	TOTAL ESTIMATED PROJECT COSTS	UNFUNDED AMOUNT	NOTES
W-26	York Creek Upper Dam Removal/Mitigation	\$3,737,134	\$6,177,117			
W-27	Meadowood Tank Upgrade	\$245,100	\$245,100			
W-35	Bell Canyon Reservoir Improvements			\$900,000	\$900,000	Unfunded
W-70	Recycled Water Mains			\$200,000	\$200,000	Unfunded
W-80	Dwyer Road Booster	\$55,857	\$338,097	\$5,450,200		
W-82	Water Rights and Permitting	\$132,711	\$132,711	\$132,711		
W-84	Bell Canyon Intake Mid-Valve Repair	\$100,000	\$100,000	\$198,179		
W-85	Bell Valve House Valve Replacement			\$575,135	\$526,105	Unfunded
W-86	Holmes Tank Upgrade	\$250,000	\$250,000	\$250,000		
W-90	High Service Pump				TBD	Unfunded
W-91	Bell Canyon Creek Inflow Measurement	\$85,000	\$750,000			
W-93	Sludge Handling Program				TBD	Unfunded
W-94	Replace Telemetry at LSWTP				TBD	Unfunded
W-95	Influent Valve Actuator				TBD	Unfunded
W-96	Lower Reservoir Water Treatment				TBD	Unfunded
W-97	Raw Water Metering Station				TBD	Unfunded
W-100	VFD Controllers				TBD	Unfunded
W-101	Tank 2 Rehabilitation	\$60,000	\$750,000			
W-102	Well Filter Rehabilitation	\$210,000	\$210,000			
W-105	Sludge Handling	\$62,000	\$62,000			
W-106	Pump Station Upgrades	\$20,000	\$200,000			
W-107	Replace 12" Transmission Main		\$400,000		\$400,000	Unfunded
W-108	Lower York Creek Dam Rehab	\$100,000	\$100,000		\$400,000	
W-109	Bell Canyon Intake Tower Replacement			\$1,062,279	\$1,000,000	Unfunded
Total		\$5,107,802	\$9,365,025			

APPENDIX A – COMPLETED PROJECTS

CIVIC

- C-20 Financial Software
- C-26 Wappo Park Restrooms & Path
- C-44 Library Capital Repairs (C-30)
- C-44 Baldwin Bridge (C-41)
- C-50 Skate Park
- C-51 Bocce Court
- C-61 Impact Fee Study
- C-63 R.I.M.S. Extension MDC
- C-65 Meily Park
- C-66 Fire Truck
- C-67 Lyman Park
- C-68 Wappo Park-Pope Street Bike Trail
- C-70 Police Radio Repeaters
- C-72 Financial Software Upgrade
- C-73 McCorkle Avenue
- C-74 McCullagh Park
- C-76 Parks Equipment
- C-77 Police Equipment
- C-78 Admin Equipment
- C-81 FD Vehicle Replacement

STREETS

R-04	Pope Street Bridge Re-Alignment
R-19	Channelization
R-32	Replacement Main Street Electroliers
R-39	Ten-Wheeler Used Dump Truck
R-40	Radar Speed Check Display Sign
R-41	Micro-Surfacing
R-42	Slurry Seal Rehabilitation
R-44	Solar Message Board
R-46	Citywide Street Sign Replacement
R-47	Annual Cracked Seal Maintenance
R-48	Annual Slurry Seal Maintenance
R-69	Pope-Starr Lighted Cross Walk
R-70	Sentinel Street Sweeper Overhaul
R-71	SH Street Repair/Rehab Project 2013
R-72	Streets Equipment Replacement

*Projects R-49 through R-68 were identified as individual projects in the previous CIP. As funding becomes available these projects will be grouped as one capital project.

WASTEWATER

S-06	Sulphur Springs Sewer Extension
S-28	Chlorine Analyzer/SCADA System
S-30	Pond 2 Walkway
S-33	Rock Slope Protection & Levee Repair
S-37	Charter Oak (SS & FM Construction)
S-38	Main Street Sewer Rehabilitation
S-41	Brush Aerators
S-43	WWTP Diffuser Permits
S-46	Front End Loader
S-49	Crinella Pump Station
S-51	Rehabilitation - Pond 1A
S-54	Security Gate
S-55	Shop HVAC
S-56	Radio Repeater/Infrastructure
S-57	Oak Ave Infrastructure
S-58	Chlorine Pump
S-60	Sealing of Pond 1A
S-63	Sewer Equipment Replacement
S57-01	Collections Vehicle Replacement Program
S57-02	Treatment Vehicle Replacement

WATER

W-01	Bale Slough (Rutherford W-28)
W-02	Tank 2 - PAX Mixer
W-08	Pratt Avenue Transmission Bridge
W-12	Community Drive
W-13	Howell Mountain Road
W-28	Rutherford
W-31	Water Treatment Plant Upgrades
W-37	Corp Yard Improvements
W-38	Machinery & Equipment
W-42	SCADA
W-57	WTP Worker Housing
W-62	Water Valve Replacement
W-67	Charter Oak Water Main Replacement
W-69	Stonebridge Well Upgrades
W-83	Tank 1A Design/Construction
W-88	Surge Protection at LSWTP & SBW
W-89	Fixed Gas Chlorine Analyzer
W-98	Toilet Retrofit Program
W-99	Radio Repeater/Infrastructure
W76-01	Distribution Vehicle Replacement Program
W76-02	Treatment Vehicle Replacement Program
W-103	Stonebridge Well Roof
W-104	412 Crystal Springs Road Roof

APPENDIX B – PROJECT DETAILS

C-19: MISCELLANEOUS BUILDING REPAIRS

Project Name: Miscellaneous Building Repairs
Project Number: C19
Project Description: Miscellaneous Building Repairs

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
General Fund	44,858	20,000	20,000	20,000	20,000	20,000		144,858
Total	44,858	20,000	20,000	20,000	20,000	20,000	0	144,858

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering	0	0						0
Construction Contract	0	20,000	20,000	20,000	20,000	20,000	0	100,000
Other CIP Costs	44,858							44,858
Total	44,858	20,000	20,000	20,000	20,000	20,000	0	144,858

C-46: SOFTBALL LIGHTS

Project Name: Softball Lights
Project Number: C46
Project Description: Softball Lights

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
General Fund	0	20,000						20,000
Total	0	20,000	0	0	0	0	0	20,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering	0	0						0
Construction Contract	0	20,000	0	0	0	0	0	20,000
Other CIP Costs	0							0
Total	0	20,000	0	0	0	0	0	20,000

C-62: LIBRARY HVAC SYSTEM

Project Name: Library HVAC System
Project Number: C62
Project Description: Construct and install new HVAC system in library

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
General Fund	547,661	81,284						628,945
Total	547,661	81,284	0	0	0	0	0	628,945

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract		81,284	0	0	0	0		81,284
Other CIP Costs	547,661							547,661
Total	547,661	81,284	0	0	0	0	0	628,945

C-69: LIBRARY ROOF REPAIRS

Project Name: Library Roof Repair
Project Number: C69
Project Description: Repair/Rehab Library Roof

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
General Fund		71,000						71,000
Total	0	71,000	0	0	0	0	0	71,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract		71,000	0	0	0	0		71,000
Other CIP Costs								0
Total	0	71,000	0	0	0	0	0	71,000

C-79: DOWNTOWN RESTROOMS

Project Name: Downtown Restrooms
Project Number: C79
Project Description: Construct restrooms downtown
Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
General Fund	0	296,000						296,000
Total	0	296,000	0	0	0	0	0	296,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering	0	23,000						23,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		23,000	0	0				23,000
Construction Contract		250,000	0	0				250,000
Other CIP Costs								0
Total	0	296,000	0	0	0	0	0	296,000

R-05: MAIN STREET AT GRAYSON SIGNALIZATION

Project Name: Main Street at Grayson Traffic Signal
Project Number: R05
Project Description: Install 3-way traffic signal at Main Street and Grayson

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Impact Fee (100%)	138,340	2,766						141,106
State Grants - STIP			150,000	150,000				300,000
Total	138,340	2,766	150,000	150,000	0	0	0	441,106

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering	138,340							138,340
Environmental		2,766						2,766
Land/ROW Acquisition								0
Construction Engineering			22,500	22,500				45,000
Construction Contract			127,500	127,500				255,000
Other CIP Costs								0
Other - TBD								0
Total	138,340	2,766	150,000	150,000	0	0	0	441,106

R-15: ACCESS RAMPS UPGRADES

Project Name: Access Ramp Upgrades
Project Number: R15
Project Description: Annual installation and replacement of curb ramps to meet accessibility requirements

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Gas Tax Fund		10,000	10,000	10,000	10,000	10,000		50,000
Total	0	10,000	10,000	10,000	10,000	10,000	0	50,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract		10,000	10,000	10,000	10,000	10,000		50,000
Other CIP Costs								0
Other - TBD								0
Total	0	10,000	10,000	10,000	10,000	10,000	0	50,000

R-29: CURB, GUTTER AND SIDEWALK REPAIR

Project Name: Curb, Gutter, Sidewalk Repair
Project Number: R29
Project Description: Annual installation and replacement of damaged curb, gutter, and sidewalk

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Gas Tax Fund		20,000	20,000	20,000	20,000	20,000		100,000
Total	0	20,000	20,000	20,000	20,000	20,000	0	100,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract		20,000	20,000	20,000	20,000	20,000		100,000
Other CIP Costs								0
Other - TBD								0
								0
Total	0	20,000	20,000	20,000	20,000	20,000	0	100,000

R-30: POPE STREET BIKE LANES

Project Name: Pope Street Bike Lanes
Project Number: R30
Project Description: Install bike lanes on Pope Street

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Gas Tax Fund	10,000							10,000
Grant - TFCA	10,000	30,000						40,000
Total	20,000	30,000	0	0	0	0	0	50,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering	5,000							5,000
Environmental	5,000							5,000
Land/ROW Acquisition								0
Construction Engineering	1,500	4,500						6,000
Construction Contract	8,500	25,500						34,000
Other CIP Costs								0
Other - TBD								0
Total	20,000	30,000	0	0	0	0	0	50,000

R-73: CITYWIDE PEDESTRIAN IMPROVEMENTS

Project Name: Hunt Ave & RLS Bike and Pedestrian Improvements
Project Number: R73
Project Description: Construct sidewalk in gaps along Hunt Ave, trail connection to Adams St, and various sidewalks near RLS Middle School

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Unfunded				100,000	400,000			500,000
Total	0	0	0	0	0	0	0	0

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering				30,000	30,000			60,000
Environmental				10,000				10,000
Land/ROW Acquisition								0
Construction Engineering				20,000	20,000	0		40,000
Construction Contract				40,000	350,000	0		390,000
Other CIP Costs								0
Other - TBD								0
Total	0	0	0	100,000	400,000	0	0	500,000

R-74: 2015 PAVEMENT REHABILITATION

Project Name: 2015 Pavement Rehabilitation
Project Number: R-74
Project Description: 2015 Pavement Rehabilitation

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
General Fund		0			125,000	125,000		250,000
Gas Tax Fund	18,000	258,601	250,000	250,000	125,000	125,000		1,026,601
Measure					600,000	600,000		1,200,000
Total	18,000	258,601	250,000	250,000	850,000	850,000		2,476,601

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		18,000	5,000	30,000	30,000	30,000		113,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		25,860	25,000	25,000	85,000	85,000		245,860
Construction Contract		214,741	220,000	195,000	735,000	735,000		2,099,741
Other CIP Costs								0
Other - TBD								0
Total	0	258,601	250,000	250,000	850,000	850,000		2,458,601

R-75: VALLEY VIEW STREET BIKE LANES

Project Name: Valley View Street Bike Lanes
Project Number: R-75
Project Description: Install "green" bike lane on Valley View Street between Grayson Avenue and Birch Avenue

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Gas Tax Fund		70,000						70,000
Total	0	70,000	0	0	0	0	0	70,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		1,000						1,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		5,000						5,000
Construction Contract		64,000						64,000
Other CIP Costs								0
Other - TBD								0
Total	0	70,000	0	0	0	0	0	70,000

R-76: MITCHELL STREET SIDEWALK

Project Name: Mitchell Street Sidewalk
Project Number: R50
Project Description: Construct sidewalk on north side of Mitchell Drive between Oak Avenue and St James Drive

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Gas Tax Fund		18,722						18,722
Grant - TDA-3		107,278						107,278
Total	0	126,000	0	0	0	0	0	126,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		18,722						18,722
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		12,000						12,000
Construction Contract		95,278						95,278
Other CIP Costs								0
Other - TBD								0
Total	0	126,000	0	0	0	0	0	126,000

S-16: MISCELLANEOUS MAINTENANCE PROJECTS

Project Name: Misc. Maintenance Projects
Project Number: S-16
Project Description: Various Annual Maintenance Projects

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Wastewater Utility		29,750	29,750	29,750	29,750	29,750		148,750
Wastewater Impact Fee (15%)		5,250	5,250	5,250	5,250	5,250		26,250
Total	0	35,000	35,000	35,000	35,000	35,000	0	175,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		5,250	5,250	5,250	5,250	5,250		26,250
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract		29,750	29,750	29,750	29,750	29,750		148,750
Other CIP Costs								0
Other - TBD								0
Total	0	35,000	35,000	35,000	35,000	35,000	0	175,000

S-47: REGULATORY COMPLIANCE PERMIT RENEWAL

Project Name: Regulatory Compliance
Project Number: S-47
Project Description: Regulatory Compliance

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Wastewater Utility	306,255	32,205						338,460
Total	306,255	32,205	0	0	0	0	0	338,460

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering	306,255	32,205	0	0	0	0		338,460
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract			0	0	0	0		0
Other CIP Costs								0
Other - TBD								0
Total	306,255	32,205	0	0	0	0	0	338,460

S-50: ALGAE REMOVAL/REDUCTION

Project Name: Algae Removal Device
Project Number: S-50
Project Description: Install device such as rock filter for algae removal, as recommended by WFE Improvement Number 3

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Wastewater Utility						85,000	765,000	850,000
Wastewater Impact Fee (15%)						15,000	135,000	150,000
Total	0	0	0	0	0	100,000	900,000	1,000,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering						100,000		100,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering							90,000	90,000
Construction Contract							810,000	810,000
Other CIP Costs								0
Other - TBD								0
Total	0	0	0	0	0	100,000	900,000	1,000,000

S-52: CONSTRUCT SOLIDS MANAGEMENT PONDS

Project Name: Construct Solids Management Ponds
Project Number: S-52
Project Description: Construct solids management ponds and associated yard piping in accordance with WFE Improvement Number 1a

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Wastewater Utility		60,000	540,000					600,000
Total	0	60,000	540,000	0	0	0	0	600,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		60,000						60,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering			54,000					54,000
Construction Contract			486,000					486,000
Other CIP Costs								0
Other - TBD								0
Total	0	60,000	540,000	0	0	0	0	600,000

S-53: RECLAMATION FIELD IMPROVEMENTS

Project Name: Reclamation fields improvement
Project Number: S-53
Project Description: Improve irrigation facilities in reclamation field

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Wastewater Utility		120,700						120,700
Wastewater Impact Fee (15%)		21,300						21,300
Total	0	142,000	0	0	0	0	0	142,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		21,000						21,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		11,000						11,000
Construction Contract		110,000						110,000
Other CIP Costs								0
Other - TBD								0
Total	0	142,000	0	0	0	0	0	142,000

S-59: SPLIT POND 3

Project Name: Split Pond 3
Project Number: S-59
Project Description: Split Pond 3 into two ponds in series per WFE Improvement Number 1c

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Wastewater Utility			110,000					110,000
Total	0	0	110,000	0	0	0	0	110,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering			15,000					15,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering			10,000					10,000
Construction Contract			85,000					85,000
Other CIP Costs								0
Other - TBD								0
Total	0	0	110,000	0	0	0	0	110,000

S-61: POND 2 & 3 LEVEE REPAIR

Project Name: Pond 2 & 3 Levee Repair
Project Number: S-61
Project Description: Repair levees between ponds and install rock slope protection

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Wastewater Utility		60,000						60,000
Total	0	60,000	0	0	0	0	0	60,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		9,000						9,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		6,000		0				6,000
Construction Contract		45,000		0				45,000
Other CIP Costs								0
Other - TBD								0
Total	0	60,000	0	0	0	0	0	60,000

S-62: AUTOMATION FOR DISINFECTION

Project Name: Automation for Disinfection and Dechlorination
Project Number: S-62
Project Description: Automate disinfection and dechlorination facilities per WFE Improvement Number 2

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Wastewater Utility		50,000	100,000					150,000
Total	0	50,000	100,000	0	0	0	0	150,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		22,500						22,500
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		2,500	10,000					12,500
Construction Contract		25,000	90,000					115,000
Other CIP Costs								0
Other - TBD								0
Total	0	50,000	100,000	0	0	0	0	150,000

S-64: OAK AVENUE SEWER LINE REPLACEMENT

Project Name: Oak Avenue Sewer Line Replacement
Project Number: S-
Project Description: Reconstruct or rehabilitate sewer line in Oak Avenue

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Wastewater Utility			29,750	280,500				310,250
Wastewater Impact Fee (15%)			5,250	49,500				54,750
Total	0	0	35,000	330,000	0	0	0	365,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering			35,000					35,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering				30,000				30,000
Construction Contract				300,000				300,000
Other CIP Costs								0
Other - TBD								0
Total	0	0	35,000	330,000	0	0	0	365,000

S-65: SOLIDS MANAGEMENT PONDS IMPROVEMENTS

Project Name: Improve solids management ponds
Project Number: S-
Project Description: Install aerator moorings and electrical provisions as recommended by WFE Improvement Number 1b

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Wastewater Utility		45,000						45,000
Total	0	45,000	0	0	0	0	0	45,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		4,500						4,500
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		4,500						4,500
Construction Contract		36,000						36,000
Other CIP Costs								0
Other - TBD								0
Total	0	45,000	0	0	0	0	0	45,000

S-66: NEW WELL

Project Name: New Well
Project Number: S-60
Project Description: Install new well at wastewater treatment and reclamation plant

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Wastewater Utility		65,000						65,000
Total	0	65,000	0	0	0	0	0	65,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		10,000						10,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		5,000						5,000
Construction Contract		50,000						50,000
Other CIP Costs								0
Other - TBD								0
Total	0	65,000	0	0	0	0	0	65,000

S-67: SLUDGE REMOVAL

Project Name: Sludge Removal
Project Number: S-67
Project Description: Remove accumulated sludge from Ponds 1B and 2

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Wastewater Utility		75,000	75,000					150,000
Total	0	75,000	75,000	0	0	0	0	150,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		20,000						20,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		5,000	10,000					15,000
Construction Contract		50,000	65,000					115,000
Other CIP Costs								0
Other - TBD								0
Total	0	75,000	75,000	0	0	0	0	150,000

W-26: YORK CREEK UPPER DAM REMOVAL

Project Name: Upper York Creek Dam Removal
Project Number: W-26
Project Description: Remove Upper York Creek Dam and restore creek habitat

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Bond	322,883	1,995,308	698,158					3,016,349
Unfunded		847,888	847,887					1,695,775
EPA Grant SFBWQIF		493,938	493,938					987,876
Proposition 84		400,000	400,000					800,000
Total	322,883	3,737,134	2,439,983	0	0	0	0	6,500,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering	322,883	262,123						585,006
Environmental		262,123						262,123
Land/ROW Acquisition								0
Construction Engineering		125,000	125,718					250,718
Construction Contract		3,087,888	2,314,265					5,402,153
Other CIP Costs								0
Other - TBD								0
Total	322,883	3,737,134	2,439,983	0	0	0	0	6,500,000

W-27: MEADOWOOD & HOLMES TANK UPGRADES

Project Name: Meadowood Tank Upgrade
Project Number: W-27
Project Description: Replace and upgrade Meadowood Tanks and associated systems

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility	148,948	114,210						263,158
Water Impact Fee (50%)		125,000						125,000
Water Bond	4,900	5,890						10,790
Total	153,848	245,100	0	0	0	0	0	398,948

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering	153,848	17,100						170,948
Environmental		3,000						3,000
Land/ROW Acquisition								0
Construction Engineering		20,000						20,000
Construction Contract		205,000						205,000
Other CIP Costs								0
Other - TBD								0
Total	153,848	245,100	0	0	0	0	0	398,948

W-35: BELL CANYON RESERVOIR IMPROVEMENTS

Project Name: Bell Canyon Reservoir Improvements
Project Number: W-35
Project Description: Dredging to restore storage capacity lost by sediment accumulation

Financial Impact

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility							900,000	900,000
Total	0	0	0	0	0	0	900,000	900,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering							70,000	70,000
Environmental							20,000	20,000
Land/ROW Acquisition								0
Construction Engineering							90,000	90,000
Construction Contract							720,000	720,000
Other CIP Costs								0
Other - TBD								0
Total	0	0	0	0	0	0	900,000	900,000

W-80: DWYER ROAD BOOSTER (PUMP STATION)

Project Name: Dwyer Road Pump Station
Project Number: W-80
Project Description: Contribute a fair share contribution to the City of Napa for a pump station to deliver water to St Helena and Calistoga. Project will improve system reliability and increase pressure in the southern end of the system.

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility		10,857	35,280	35,280	35,280	35,280	358,900	510,877
Water Impact Fee (50%)		45,000	35,280	35,280	35,280	35,280	358,900	545,020
Water Bond	34,143							34,143
Total	34,143	55,857	70,560	70,560	70,560	70,560	717,800	1,090,040

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering	102,429	167,571						270,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract			352,800	352,800	352,800	352,800	3,769,000	5,180,200
Other CIP Costs								0
Other - TBD								0
Total	102,429	167,571	352,800	352,800	352,800	352,800	3,769,000	5,450,200

W-82: WATER RIGHTS AND PERMITTING

Project Name: Water Rights and Permitting
Project Number: W-82
Project Description: Secure water rights and permits for water entering Bell Canyon Reservoir

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility		127,711						127,711
Total	0	127,711	0	0	0	0	0	127,711

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		127,711						127,711
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract								0
Other CIP Costs								0
Other - TBD								0
Total	0	127,711	0	0	0	0	0	127,711

W-84: BELL CANYON INTAKE TOWER REPAIR

Project Name: Bell Canyon Intake Tower Repair
Project Number: W-84
Project Description: Replace and repair mid-valve on the intake tower

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility	23,763	97,416						121,179
Water Impact Fee (15%)								0
Water Bond	74,416	2,584						77,000
Total	98,179	100,000	0	0	0	0	0	198,179

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering	98,179							98,179
Environmental								0
Land/ROW Acquisition								0
Construction Engineering		10,000						10,000
Construction Contract		90,000						90,000
Other CIP Costs								0
Other - TBD								0

Total	98,179	100,000	0	0	0	0	0	198,179
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W-85: BELL VALVE HOUSE IMPROVEMENTS

Project Name: Bell Canyon Valve House Improvements
Project Number: W-85
Project Description: Improve valve house at Bell Canyon Reservoir

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility	49,030						447,189	496,219
Water Impact Fee (15%)							78,916	78,916
Total	49,030	0	0	0	0	0	526,105	575,135

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering	49,030						50,000	99,030
Environmental								0
Land/ROW Acquisition								0
Construction Engineering							50,000	50,000
Construction Contract							426,105	426,105
Other CIP Costs								0
Other - TBD								0
Total	49,030	0	0	0	0	0	526,105	575,135

W-86: HOLMES TANK UPGRADE

Project Name: Holmes Tank Upgrade
Project Number: W-86
Project Description: Replace and upgrade Holmes Tank and associated systems

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility		125,000						125,000
Water Impact Fee (50%)		125,000						125,000
Total	0	250,000	0	0	0	0	0	250,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		20,000						20,000
Environmental		5,000						5,000
Land/ROW Acquisition								0
Construction Engineering		20,000						20,000
Construction Contract		205,000						205,000

WATER PROJECTS DETAIL

Other CIP Costs								0
Other - TBD								0
Total	0	250,000	0	0	0	0	0	250,000

W-91: BELL CREEK INFLOW WEIR

Project Name: Bell Canyon Creek Inflow Measurement
Project Number: W-91
Project Description: Install stilling basin and inflow measuring devices

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility	22,645		550,250					572,895
Water Impact Fee (15%)		12,750	99,750					112,500
Water Bonds	100,000	72,250	15,000					187,250
Total	122,645	85,000	665,000	0	0	0	0	872,645

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering	122,645	65,000						187,645
Environmental		20,000						20,000
Land/ROW Acquisition								0
Construction Engineering			60,000					60,000
Construction Contract			605,000					605,000
Other CIP Costs								0
Other - TBD								0
Total	122,645	85,000	665,000	0	0	0	0	872,645

W-101: TANK 2 REHABILITATION

Project Name: Tank 2 Rehabilitation
Project Number: W-101
Project Description: Rehabilitate Tank 2

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility		51,000	586,000					637,000
Water Impact Fee (15%)		9,000	104,000					113,000
Total	0	60,000	690,000	0	0	0	0	750,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		60,000						60,000
Environmental								0

WATER PROJECTS DETAIL

Land/ROW Acquisition								0
Construction Engineering			69,000					69,000
Construction Contract			621,000					621,000
Other CIP Costs								0
Other - TBD								0
Total	0	60,000	690,000	0	0	0	0	750,000

W-102: WELL FILTER REHABILITATION

Project Name: Well Filter Rehabilitation

Project Number: W-102

Project Description: Rehabilitate well filters

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility		210,000						210,000
Total	0	210,000	0	0	0	0	0	210,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		20,000						20,000
Environmental		5,000						5,000
Land/ROW Acquisition								0
Construction Engineering		20,000						20,000
Construction Contract		165,000						165,000
Other CIP Costs								0
Other - TBD								0
Total	0	210,000	0	0	0	0	0	210,000

W-105: SLUDGE HANDLING

Project Name: Sludge Handling

Project Number: W-105

Project Description: Replace sludge collector piping

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility		62,000						62,000
Total	0	62,000	0	0	0	0	0	62,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering								0
Environmental								0
Land/ROW Acquisition								0
Construction Engineering								0
Construction Contract		62,000						62,000

WATER PROJECTS DETAIL

Other CIP Costs								0
Other - TBD								0
Total	0	62,000	0	0	0	0	0	62,000

W-106: PUMP STATION UPGRADES

Project Name: Pump Station Upgrades
Project Number: W-106
Project Description: Upgrade existing pump stations to provide backup power. This upgrade is required by the Department of Public Health

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility		20,000	180,000					200,000
Total	0	20,000	180,000	0	0	0	0	200,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		20,000						20,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering			20,000					20,000
Construction Contract			160,000					160,000
Other CIP Costs								0
Other - TBD								0
Total	0	20,000	180,000	0	0	0	0	200,000

W-107: REPLACE 12" TRANSMISSION MAIN

Project Name: Replace 12" Transmission Main
Project Number: W-107
Project Description: Replace 12" Water Transmission Main from Rutherford Pump Station to City of Napa

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility							400,000	400,000
Total	0	0	0	0	0	0	400,000	400,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering							40,000	40,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering							40,000	40,000
Construction Contract							320,000	320,000
Other CIP Costs								0
Other - TBD								0
Total	0	0	0	0	0	0	400,000	400,000

W-108: LOWER YORK CREEK DAM REHAB

Project Name: Lower York Creek Dam Rehab
Project Number: W-108
Project Description: Rehab Lower York Creek Dam as required by Division of Dam Safety. Repair 12" diameter gate in the outlet tower, repair 24" diameter spillway gate, geotechnical investigation and stability analysis, seismic stability analysis of intake tower, and survey and rehab 12" dia low level outlet pipe

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility		150,000					350,000	500,000
Total	0	150,000	0	0	0	0	350,000	500,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering		100,000					40,000	140,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering							40,000	40,000
Construction Contract							320,000	320,000
Other CIP Costs								0
Other - TBD								0
Total	0	100,000	0	0	0	0	400,000	500,000

W-109: BELL CANYON INTAKE TOWER REPLACEMENT

Project Name: Bell Canyon Intake Tower Replacement
Project Number: W-109
Project Description: Replace intake tower

Funding Sources:

Sources	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Water Utility							773,000	773,000
Water Impact Fee (15%)							150,000	150,000
Water Bond							77,000	77,000
Total	0	0	0	0	0	0	1,000,000	1,000,000

Project Cost Estimate:

Elements	Prior Years	FY15/16	FY16/17	FY17/18	FY18/19	FY19/20	Future Years	Total
Preliminary Engineering							100,000	100,000
Environmental								0
Land/ROW Acquisition								0
Construction Engineering							100,000	100,000
Construction Contract							800,000	800,000
Other CIP Costs								0
Other - TBD								0
Total	0	0	0	0	0	0	1,000,000	1,000,000