## **Capital Improvement Plan**



Installation of recycled water pipeline in the Los Carneros Water District area

## **Capital Improvement Plan**

#### **Program Description**

The Capital Improvement Plan (CIP) is designed to identify capital expenditures for the next ten years and to plan appropriately for how to complete those projects within projected revenues and staffing capacity. The plan includes the replacement and rehabilitation of existing capital assets as well as the acquisition or construction of new capital assets.

#### Definition of Capital Expenditures

Capital expenditures, or capital outlays, are cash outlays by the District that result in the acquisition or construction of a capital asset. A capital asset is any asset of significant value (over \$5,000) that has a useful life of over one year. Examples include land, buildings, machinery, vehicles and equipment. All capital assets acquired or constructed are included in the Capital Improvement Plan. Land is always considered a capital asset, regardless of value.

#### Capital Plan Development Process

Annually, the District updates its Ten-Year Capital Improvement Plan. The plan undergoes several levels of review and alteration. First, a project is individually evaluated to determine whether it is necessary to do the project, or if a less expensive alternative is available. If the project is still the best alternative, then an evaluation is done to determine when the project should be done, based on the condition of the existing assets or the operational and maintenance needs for the project.

Management and supervisory staff also are provided an opportunity to identify new capital projects through the Project Charter process. New projects are proposed to the Capital Program Manager and the District Engineer who evaluate the projects and determine their need and level of priority. Once vetted through this process, new projects are added to the CIP as funding allows.

## Vehicle Replacement Guidelines

The District maintains a fleet of vehicles used solely for purposes related to the direct maintenance and operations of the District. When a vehicle is purchased, it is identified at that time how long that vehicle should continue to serve its intended function, provided that the vehicle is maintained properly. The replacement of that vehicle is then scheduled in the Capital Improvement Plan, to

ensure that the District has adequately planned for the replacement costs associated with the vehicle.

Every year, a team of District staff reviews the list of vehicles owned by the District and the replacement schedule. The team makes the following recommendations:

- Move vehicles back or forward on the replacement schedule based on the maintenance history of the vehicle and any current maintenance problems;
- Move vehicles back or forward on the schedule based on regulatory requirements (such as CARB requirements for diesel engines);
- Move vehicles between organizational units when the use of the vehicle changes;
- Identify whether a vehicle scheduled for replacement should be recommended for surplus, or when it could still be used effectively by another department; and
- Identify when service needs have changed that could necessitate that a vehicle be replaced by a different type of vehicle or not at all.

Senior management reviews the recommendations of the Fleet Team, accepts or rejects recommendations, and incorporates accepted changes into the Ten-Year Capital Improvement Plan. All decisions to declare a vehicle surplus and replace the vehicle are brought to the NSD Board of Directors for approval, in accordance with District procurement policy.

The replacement of fleet vehicles represents almost \$5.5 million, or 3.0% of the entire Ten-Year Capital Improvement Plan. All revenues collected from the sale of any vehicles declared surplus is used to offset the cost of new vehicles.



The Dystor cover, which serves as the biogas holder, was replaced in FY 2013/14 due to a rip in the inner membrane.

# Sources of Capital Expenditure Funding

There are several sources of funding for capital projects. The District collects capacity charges on new development to pay for its share of expanding the collection and treatment systems. The District also collects sewer service charges revenue in excess of operational needs to pay for replacement and rehabilitation projects. The fees collected as part of development plan review are used for capital projects, as well as grant and intergovernmental revenue.

#### Use of Capacity Charges for Expansion

The District imposes a capacity charge on new development (see the Budget Summary section, page 30, for more information on this revenue source).

In August 2009, the District completed a study of capacity charges. The study determined that from FY 1995/96 to FY 2007/08, there was significantly more money spent to provide new capacity (expansion) than there was capacity charge revenue collected. As of July 1, 2008, the expansion fund (capacity charges) was in deficit to existing ratepayers and the capital projects fund by \$12.6 million.

As new projects are completed, their benefit to existing users and to new development is evaluated, and a split of expenses between the two is assigned. At the end of the fiscal year, the deficit is adjusted based on the amount of revenue received in capacity charges and the amount of capital expenditure for expansion projects. The following represents a summary of this accounting:

#### FY 2008/09 Actual

**Expansion Projects** 

Beginning Deficit (7/1/08)	(\$12,607,167)
Revenues	1,387,193
<b>Expansion Projects</b>	1,663,801
FY 2009/10 Actual	
Beginning Deficit	(\$12,883,775)
Revenues	600,664
<b>Expansion Projects</b>	2,191,370
FY 2010/11 Actual	
Beginning Deficit	(\$14,474,480)
Revenues	2,183,802

2,811,161

FY 2011/12 Actual Beginning Deficit Revenues Expansion Projects	(\$15,101,839) 3,330,418 4,208,445
FY 2012/13 Actual Beginning Deficit Revenues Expansion Projects	(\$15,979,866) 2,693,047 2,171,064
FY 2013/14 Actual Beginning Deficit Revenues Expansion Projects	(\$15,457,883) 3,635,826 7,447,155
FY 2014/15 Actual Beginning Deficit Revenues Expansion Projects	(\$19,269,211) 3,341,297 10,657,234
FY 2015/16 Estimated Beginning Deficit Revenues Expansion Projects	(\$26,585,149) 2,998,000 3,328,700
FY 2016/17 Budget Beginning Deficit Revenues Expansion Projects Ending Deficit	(\$26,915,849) 5,512,000 2,438,200 (23,842,049)

A budget deficit and situation where expenses on expansion projects exceeds revenues means that the current ratepayers in the system are paying more than their allocated share of capital expenses, as the deficit is made up using sewer service charges and other revenues from operational sources.

A copy of the Capacity Charges Report for Fiscal Year 2014/15 can be found in Appendix F of this budget document.

## Changes from Prior CIP

The CIP was amended by the Board several times during FY 2015/16, after initial adoption. The following is a summary of the significant changes made to the CIP during the last fiscal year, not counting carry forwards of uncompleted capital projects from the prior year:

 Established a new project for the replacement of the North Napa Siphon Cover to address odor issues (CIP #16718) with a budget of \$75,000.

- Decreased the budget for the Basin L I&I Reduction Project #4 (CIP 14701) by \$1,423,400 to match the final scope of work and to recognize lower than anticipated bids.
- Increased the budget for the I&I Reduction Program (CIP #13705) by \$17,000.
- Increased the budget for the Sarco Creek Pipeline Replacement being reimbursed by CalTRANS (CIP #15703) by \$205,000 based on bids received.
- Reduced the budget for the ACP CIPP Lining Project #1 (CIP #15721) by \$343,500 to match the final scope of work and bids received.
- Incorporated the Collection System Master Plan Amendment (CIP #16702) into the Browns Valley Road Sewer Interceptor project (CIP #14703).
- Creased a new project for Manhole Portable Flowmeters (CIP #16720) as part of the I&I related projects that have an impact on chloride levels in recycled water (\$15,000).
- Increased the Phase 1 Recycled Water Expansion project (CIP #13714) by \$115,000 to meet estimated project costs.
- Increased the budget for the Aeration Basin Instrumentation and Control project (CIP #15713) by \$126,000.
- Created a new project for replacement of tractor tracks (CIP #16719) for \$20,000 and the purchase of a tractor attachment (CIP #16721) for \$7,000, related to biosolids application.

The net impact of the adjustments to the CIP was neutral; there was no increase or decrease in the total capital budget for FY 15/16.

# Summary of FY 2015/16 Capital Projects

The following is a summary of FY 2016/17 capital projects. **Dollar amounts noted are the amount budgeted for FY 2016/17, and not the entire amount of the project.** For complete financial information, see the table of projects that follows, starting on page 81.

Collection System – Collection System projects represent routine replacement or rehabilitation of existing pipeline or equipment. These projects are designed to replace or improve assets to extend their useful lives or to improve their function by reducing how rainwater and groundwater can enter the collection system. Major projects beginning or continuing this year include the Browns Valley

Sewer Interceptor project, the fifth I&I Reduction project in Basin , an I&I reduction project in Basin G (Browns Valley), an ACP CIPP Lining project, and several smaller rehabilitation projects. Collection system projects for the fiscal year total \$8,991,600.

**Collection System Equipment** – The Collection Department will be replacing its water truck and one of its cleaning eels. Total replacement cost is \$213,300.

**Lift Stations** – Lift stations are pump stations within the sewer collection system. FY 2016/17 includes the beginning of improvements to the West Napa Pump Station, which is associated with the Browns Valley Road Sewer Interceptor project. Cost is \$1,750,000.

**Treatment** – FY 2016/17 includes work to replace odor control equipment in the headworks and primary clarifiers. Capital costs in this area total \$20,000 for this fiscal year.

Treatment – Equipment – These projects include a number of equipment replacements, most notable of which are replacement of the aeration basin panels and implementation and control replacements (\$1,200,000), stationary gas detectors (\$140,000), and overhaul of the cogeneration engine's bottom end (\$75,000) and the purchase and installation of a new strain press as part of the Fats, Oil and Grease (FOG) system (\$200,000). The total FY 2016/17 expenditure is \$2,096,800.

**Treatment Plant – Structures –** There are a few projects associated with the structures at the treatment plant. The most significant are the two roof repair projects. The total FY 2016/17 expenditure is \$195,000.

Ten-Year C	IP Summary	
	FY 2016/17	10-Year CIP
Collection System	\$8,991,600	\$81,493,400
Collection System Equipment	213,300	3,476,500
Lift Stations	1,750,000	3,356,900
Treatment	20,000	5,722,700
Treatment Equipment	2,096,800	8,051,500
Treatment Structures	195,000	24,936,800
SCADA	0	1,073,700
Recycling-District	1,637,200	5,262,100
Recycling-Expansion	2,045,000	42,775,400
Other	231,800	5,655,900
Total	\$17,180,700	\$181,804,900

**SCADA** – SCADA is the hardware and software that is used to operate the treatment plant. In FY 2016/17, there are no SCADA projects.

**Recycling-District** – This section includes projects and equipment necessary for the District to maintain its fields, distribute recycled water, and land apply biosolids. FY 2016/17 includes lining the existing two recycled water reservoirs to increase their holding capacity (\$1,320,000) and replacement of a tractor (\$200,000) among other projects. The total FY 2016/17 expenditure is \$1,637,200.

Recycling-Expansion – This section includes projects to expand the recycled water distribution system into the community, or expand the treatment capabilities at the plant. Expenses here include continued efforts through the North Bay Water Reuse Project to apply for and manage federal and state grants (\$845,000) and the extension of the recycled water distribution pipeline into the MST (\$1,200,000).

**Other** – Development technical support (\$231,800) is the capitalization of staff time spent reviewing the plans and inspections associated with contributed capital.

#### Partner-Funded Projects

The District has partnered with a company to develop a 1.0 Megawatt photo-voltaic (PV) solar power system. The District has entered into a Power Purchase Agreement whereby the solar provider will build, operate and maintain the PV solar system on District-owned property. The provider will sell electricity to the District at a rate lower than its current rate for grid power. The project is expected to save the District over \$2.8 million NPV over 25 years. As part of the project, the District has negotiated to retain ownership of the environmental attributes of the project. The District has the option to purchase the PV solar system in the 6<sup>th</sup> year of the agreement. The construction for this project is expected to be completed in September 2016.

### Unfunded or Delayed Projects

The Capital Improvement Plan includes projects that have been clearly identified and programmed. It also includes some "placeholder" projects, where the specific project has not been identified but there is money allocated nonetheless. These placeholders are included in the plan to recognize that there is the

need to plan for future replacement and rehabilitation projects, even though the specific projects have not yet been scoped and planned. Providing a placeholder for these future projects will ensure that there are adequate resources to pay for these projects once they are known.

A number of projects that were slated to begin in FY 2016/17 in last year's CIP have been pushed out to begin in future years. This was done after it was determined that only critical CIP project would be started in FY 2016/17, based on the sewer service charge increase set as part of the Proposition 218 process and the 10-Year Financial Forecast. These delays allowed the District to present a capital budget for FY 2016/17 that did not exceed available resources. They include:

- Deferred replacement of Collection System Asset Management Software by one year
- Deferred replacement of a Collection System maintenance truck by two years
- Deferred installation of a redundant 12kV electrical line to the recycled water pump station by two years
- Deferred correction of the transfer structure between Pond 2 and Pond 4 by two years
- Deferred installation of variable frequency drives (VFDs) at the Jameson recycled water pump station by two years
- Deferred replacement of the pull flair chopper used for biosolids incorporation by one year
- Deferred replacement of the pipe dolly by five years

Staff believes that these delays will not result in deferred maintenance scenarios, nor will they delays pose an unreasonable risk for system failure or permit violation.

### Impact of Projects on Operating Budget

Many of the capital projects planned for FY 2016/17 are replacements and rehabilitations of existing capital assets, so it is not expected that these capital projects will have an impact on future operating budgets. However, some the FY 2016/17 capital projects will have a significant impact on the current and future operations and maintenance budgets of the District.

The I&I Reduction projects in the Collection System (Basin L #5 and Basin G #1) are designed to decrease the amount of rainwater and groundwater

that get into the system. This reduces future costs by reducing the need to build bigger pipes as well as reduces the amount of influent that the plant needs to treat. It also reduces the need for cleaning and root removal maintenance activities. The immediate, short-term savings have not been calculated, but should have a positive effect on the operating budget.

The Browns Valley Trunk Sewer Interceptor project (CIP #14703) will increase the amount of sewer main that will need to be maintained in the Collection System. However, it is not significant enough in size to impact the staffing levels or other direct expenses in the Collection System operating budget.

The Odor Control VFD (CIP #17717) and the LED Pole/Arm Mounted Fixtures (CIP #17718) are both energy projects that will result in increased energy efficiency in the treatment plant. An audit by PG&E estimated the savings from these projects at \$14,100 annually for CIP #17717 and \$10,400 for CIP #17718.

Lining the existing recycled water reservoirs (CIP #16716) will increase the operating efficiency of the recycled water system and allow more water to be stored. However, there are no increased or decreased operating costs expected with this project.

The new FOG strain press (SIP #17716) will increase electricity consumption, but not significantly. The increased quality of FOG into the digester will offset these costs through increased energy generation in the cogeneration engine.

The expansion of the MST recycled water pipeline (CIP #17737) will lead to increased maintenance and operating costs for those pipelines over time. These costs, including rehabilitation projects for all of the recycled water pipelines, are expected in future years and included in the CIP. The operating budget for



New Administration Building under construction in 2013

this project once completed in FY 17/18 will need to recognize an additional \$22,000 in treatment costs, although these costs will be offset by increased recycled water sales revenue.

The project to replace the aeration basin diffusers and install better instrumentation and controls to manage dissolved oxygen levels (CIP #15713) is estimated by PG&E to save the District \$27,400 once fully operational.

	Impacts of Capital Projects on Operating Budget												
<u>CIP #</u>	2016/17	2017/18	2018/19										
17717	(7,000)	(14,500)	(14,900)										
17718	(5,200)	(11,700)	(12,100)										
17737	0	22,000	22,600										
14727	0	(28,200)	(29,100)										
Total	(\$12,200)	(\$34,400)	(\$33,500)										

pink = completed in-house blue = needed for future planning orange = critical project green = continuation of approved projects purple = energy savings grey = paid for by others

FY 2016/17:

FY 2016/17:

FY 2016/17:

FY 2016/17:

\$88,700

\$198,900

\$72,000

\$87,000

\$200,000

#### **COLLECTION SYSTEM**

13701 Mainline Sewer Rehabilitation

Ongoing program to conduct spot repairs to damaged sewer lines using NSD crews or an outside contractor, extending the useful life of these assets.

13702 Manhole Raising / Rehabilitation

Ongoing program to fund the raising of manhole rims in streets that have been resurfaced. NSD crews replace damaged manholes in this program.

13703 Lateral Replacement / Rehabilitation

Ongoing program to rehabilitate street laterals as required using NSD crews or an outside contractor.

13704 Cleanout Installation / Rehabilitation

FY 2016/17: Ongoing program using NSD crews to install lateral clean-outs at the property line where one does not exist.

13705 Inflow & Infiltration (I&I) Reduction Program

This program conducts smoke testing and flow monitoring for I&I reduction projects. A consultant will conduct an analysis to evaluate the effectiveness of the I&I reduction projects.

16701 Basin L - I&I Reduction Project 5

**Project Total: \$2,200,000** FY 2016/17: \$1,400,000 Project 5 will be designed and constructed to reduce I&I in Basin L (north of Imola Avenue, south of Napa Creek, and west of the Napa River).

17701 ACP CIPP Lining Project #2

\$350,000 **Project Total: \$1,200,000** FY 2016/17: The project will rehabilitate existing asbestos cement pipes (ACP). The ACP mains are degrading and were determined to be in immediate need of rehabilitation.

17702 Upper Lateral Rehabilitation - Basin L (Pilot #2) **Project Total:** \$160,300 FY 2016/17: \$5,000

This pilot project will replace residential private sewer lateral pipes in a portion of Basin L.

17703 Manhole Rehab - Nipak **Project Total:** \$90,000 FY 2016/17: \$90,000

The project will rehabilitate existing manholes to decrease groundwater infiltration into the collection system.

17704 Infiltration Rehab - SSMH and Pipelines (Cl-) Project Total: \$400,000 \$400,000

The project will rehabilitate existing pipelines and manholes to decrease infiltration of groundwater with high salt content.

17705 Soscol Ave (8th to Oil Company Road) **Project Total: \$1,017,500** FY 2016/17: \$500,000

The project will rehabilitate existing large diameter reinforced concrete pipe that is degraded and nearing the end of its useful life.

15703 Sarco Creek Pipeline Replacement - CalTRANS **Project Total: \$1,151,850** FY 2016/17: \$1,050,000 This project, funded by CalTRANS, will relocate sewer main pipe adjacent to Silverado Trail that crosses Sarco creek. The relocation is needed for a CalTRANS bridge project.

FY 2016/17: \$2,800,000 14703 Browns Valley Truck Interceptor **Project Total: \$15,488,450** 

The project will intercept sewage from the Browns Valley area and bypass it around the downtown area. The project goal is to convey increased flows in the sewer system to decrease the potential for overflows.

pink = completed in-house blue = needed for future planning orange = critical project green = continuation of approved projects

purple = energy savings grey = paid for by others

17706 Rehab - Ranch De Los Robles

**Project Total: \$1,600,000** 

\$400,000 FY 2016/17:

This collection system rehabilitation project will be designed and constructed to reduce I&I in Basin L (north of Imola Avenue, south of Napa Creek, and west of the Napa River).

17707 66-inch Trunk CCTV Inspection

Project Total: \$150,000 FY 2016/17:

\$150,000

This project will evaluation the condition of the existing trunk main from Oil Company Road to the treatment plant.

17708 Basin G - I&I Reduction Project 1

**Project Total: \$2,442,000** 

FY 2016/17: \$1,200,000

This collection system rehabilitation project will be designed and constructed to reduce I&I in Basin G (Browns Valley Area).

**COLLECTION SYSTEM EQUIPMENT** 

17709 Eel Replacement 1

**Project Total:** \$5,400 FY 2016/17:

\$5,400

This project will replace the old and outdated eel used in Collections to clean laterals and to remove debris.

17710 Vehicle 510 - Water Truck

Project Total: \$207,900

FY 2016/17:

\$207,900

This project will purchase a new water truck. The existing water truck will be transferred to the Recycling department for use at Jameson Ranch for dust control.

LIFT STATIONS

17711 West Napa PS-Rehab

**Project Total: \$3,050,000** 

FY 2016/17:

\$1,750,000

The project will rehabilitate existing assets at the pump station and increase the firm capacity to convey peak wet-weather

**TREATMENT** 

17712 Headworks & Primary - Odor Control

**Project Total:** \$20,000 FY 2016/17:

\$20,000

The project will replace existing odor control blower unit shrouds, screens, and seismic pedestals that are rusted and corroded.

TREATMENT - EQUIPMENT

13741 Secondary PS Pump Rebuild (3)

**Project Total:** \$111,300 FY 2016/17:

\$37,500

This equipment is at the end of its useful life and needs to be replaced.

17713 Secondary PS VFD Replacement (3)

**Project Total:** \$166,400 FY 2016/17:

\$53,600

This equipment is at the end of its useful life and needs to be replaced.

17714 WWTP MP - 3W System Improvements

Project Total: \$441,700 FY 2016/17:

\$60,000

Replace valves and address corrosion in the 3W system at the treatment plant.

17715 Turbidimeters (7) Tertiary Replacements

**Project Total:** \$11,800 FY 2016/17:

\$11,800

This equipment is at the end of its useful life and needs to be replaced.

17716 FOG - Strain Press

Project Total: \$200,000

FY 2016/17:

\$200,000

Purchase and install equipment that will remove blockage causing debris at the FOG receiving station.

17717 Energy Audit - Odor Control VFD

**Project Total:** 

FY 2016/17: \$51,700

\$51,700

Purchase and install a VFD for the primary clarifier exhaust fans that will result in annual energy savings.

pink = completed in-house
blue = needed for future planning
orange = critical project
green = continuation of approved projects
purple = energy savings
grey = paid for by others

17718	<b>Energy Audit - LED Pole/Arm Mounted Fixtures</b> Replace LED pole/arm mounted fixtures that will result in	Project Total: annual energy sav	<b>\$78,100</b> <i>vings</i> .	FY 2016/17:	\$78,100
17719	Lab - Sampler 4700 - Pretreatment This equipment is at the end of its useful life and needs to be	Project Total:	\$7,500	FY 2016/17:	\$7,500
17720	Lab - Sampler 4700 - Pretreatment This equipment is at the end of its useful life and needs to be	Project Total:	\$7,500	FY 2016/17:	\$7,500
17721	Lab - Chlorophyll A Analyzer - Pond Water Purchase equipment needed for receiving water and pond in	Project Total:	\$5,400	FY 2016/17:	\$5,400
17722	Main - Stationary Gas Detector Replacement Ph 2 Stationary gas detectors are required in the treatment plan which provide for a safe working environment. Existing ga parts. This project will replace existing equipment.				
17723	Main - Rotork Actuator Replacement This project will replace existing valves actuators in the tree	Project Total: eatment plant.	\$88,700	FY 2016/17:	\$88,700
15712	Main - Rehab Pond 1 Storage Structure Repair the existing storage structure near Pond 1 at the tre that is protected from the weather.	Project Total: eatment plant to ca	<b>\$30,000</b> reate a storage a	<b>FY 2016/17:</b> rea for spare parts and	<b>\$25,000</b> equipment
17724	Main - Primary Clarifier Exhaust Fan Replacement This equipment is at the end of its useful life and needs to be	Project Total: be replaced.	\$5,000	FY 2016/17:	\$5,000
15713	Main - AB Diffusers/Instrumentation and Control Replace the existing diffusers panels in the aeration basins annual energy savings.	Project Total: and install instru			<b>\$1,200,000</b> create
16713	Main - Buried Metallic Pipe Evaluation and Rehab This project will rehabilitate existing piping within the Pla future rehabilitation project.	<b>Project Total:</b> nt. The work in F	<b>\$250,000</b> `Y16/17 will asse.	FY 2016/17:ss existing damage and	<b>\$40,000</b> Scope a
16715	Main - Cogen Bottom End Overhaul  This is a major maintenance project that is necessary to exelectricity and heat for the plant.	Project Total: tend the useful life	\$225,000 e of the cogenera	<b>FY 2016/17:</b> tion engine used to pro	<b>\$75,000</b> duce
17725	Main - Sump #3 Modification  Modify drainage pumping in the gallery area of the treatments	<b>Project Total:</b> ent plant to addre	\$10,000 ss existing ineffic	<b>FY 2016/17:</b> viency.	\$10,000

#### TREATMENT - STRUCTURES

17726 Headworks Equipment Rehab/Replacement Project Total: \$544,100 FY 2016/17: \$10,000

Purchase and install equipment for the headworks building to replace equipment that is at the end of its useful life.

17727 Roof Replacement - Digester 2nd Floor Project Total: \$125,000 FY 2016/17: \$125,000

Replace existing roof that is leaking and at the end of its useful life.

pink = completed in-house blue = needed for future planning orange = critical project green = continuation of approved projects purple = energy savings

17728 Roof Replacement - AB/Blower Building

**Project Total:** 

FY 2016/17:

grey = paid for by others

\$40,000

Replace existing roof that is leaking and at the end of its useful life.

Modify access to the DAF and DAF pad for safety and operations benefits.

17729 DAF Access Opening

**Project Total:** 

\$20,000

\$40,000

FY 2016/17:

\$20,000

**SCADA** 

There are no SCADA projects in FY 2016/17

**RECYCLING - DISTRICT** 

16716 Line Recycled Water Reservoirs

**Project Total: \$1,365,000** 

FY 2016/17: \$1,320,000

This project will install a non-permeable liner on the bottom of the existing recycled water reservoirs used for daily storage and equalization. The project will increase the storage capacity of the existing ponds by approximately 50%.

15717 Isolation Valve on Kirkland Line (Devlin Road)

**Project Total:** \$63,850

FY 2016/17:

\$49,200

Install an inline valve to create an additional isolation point for operational benefits of the south pipeline.

17730 Jameson Solids Pad Dump Bay

**Project Total:** \$15,000 FY 2016/17:

\$15,000

Install a concrete pad at Jameson Ranch for biosolids management and processing.

17731 Jameson Office Trailer Replacement

**Project Total:** 

\$25,000 FY 2016/17: \$25,000

Replace the existing office trailer that is at the end of its useful life.

17732 Vehicle 710 - 8830 Tractor

**Project Total:** \$200,000 FY 2016/17:

\$200,000

Replace existing tractor that is at the end of its useful life.

17733 Vehicle 172 - Ford F150

**Project Total:** \$28,000

FY 2016/17:

\$28,000

Replace existing truck that is at the end of its useful life.

**RECYCLING - EXPANSION** 

13727 North Bay Water Reuse Project

FY 2016/17:

\$845,000

This is the cost of program development, project management, and environmental analysis associated with the expansion of recycled water production and delivery, and seeking federal and state grant revenues in support of recycled water.

17734 MST RW Pipeline Extension

**Project Total: \$1,900,000** 

FY 2016/17: \$1,200,000

This project, financed by Napa County through WaterSmart grants and an SRF loan, will design and construct a recycled water pipeline in Coombsville Road from 2nd Avenue to Terrace Drive.

**OTHER** 

13729 Development Technical Support

FY 2016/17:

\$231,800

District staff reviews and comments on development plans involving sewer and recycled water facilities and contributed capital.

#### FY 2016/17Capital Project Schedule Allocation of Capacity Charges

			% Funded by	% Funded by	Total	
			Capacity	Other	Capacity	Total
#	Name	FY 16/17	Charges	Revenue	Charges	Other Revenue
	ON SYSTEM  Naire Line Course Dahah	00.700		100.00/		00.700
13701	Main Line Sewer Rehab	88,700		100.0%	-	88,700
13702 13703	Manhole Raising/Rehab	198,900 72,000		100.0% 100.0%	-	198,900
13703	Lateral Replacement/Rehab Cleanouts Installation/Rehab	87,000 87,000		100.0%	-	72,000 87,000
13704	I&I Reduction Program	200,000	39.4%	60.6%	78,800	121,200
14703	Browns Valley Rd & First St	2,800,000	39.4%	60.6%	1,103,200	1,696,800
15703	Sarco Creek Pipeline Replacement - CalTRANS	1,050,000	33.470	100.0%	1,103,200	1,050,000
16701	Basin L - I&I Reduction Project 5	1,400,000	39.4%	60.6%	551,600	848,400
17701	ACP CIPP Lining Project #2	350,000	33.470	100.0%	-	350,000
17702	Upper Lateral Rehabilitation - Basin L (Pilot #2)	5,000		100.0%	-	5,000
17703	Manhole Rehab - Nipak	90,000		100.0%	-	90,000
17704	Infiltration Rehab - SSMH and Pipelines (CI-)	400,000		100.0%	-	400,000
17705	Soscol Ave (8th to Oil Company Road)	500,000		100.0%	-	500,000
17706	Rehab - Ranch De Los Robles	400,000		100.0%	-	400,000
17707	66-inch Trunk CCTV Inspection	150,000		100.0%	-	150,000
17708	Basin G - I&I Reduction Project #1	1,200,000	39.4%	60.6%	472,800	727,200
COLLECTION	ON SYSTEM - EQUIPMENT					
17709	Eel Replacment 1	5,400		100.0%	-	5,400
17710	Vehicle 510 - Water Truck	207,900		100.0%	-	207,900
<b>LIFT STAT</b>						
17711	West Napa PS - Rehab	1,750,000		100.0%	-	1,750,000
<b>TREATME</b>	<del></del>					
17712	Headworks & Primary - Odor Control	20,000		100.0%	-	20,000
	NT - EQUIPMENT					
13741	Secondary PS Pump Rebuild (3)	37,500		100.0%	-	37,500
15712	Rehabilitate Pond 1 Storage Structure	25,000		100.0%	-	25,000
15713	Aeration Basin Instrumentation and Control	1,200,000		100.0%	-	1,200,000
16713	Buried Metallic Piping (eval/rehab)	40,000		100.0%	-	40,000
16715	Cogen Bottom End Overhaul	75,000		100.0%	-	75,000
17713	Secondary PS VFD Replacement (3)	53,600		100.0%	-	53,600
17714	WWTP MP - 3W System Improvements	60,000		100.0%	-	60,000
17716	FOG - Strain Press	200,000		100.0% 100.0%	-	200,000
17717 17718	Energy Audit - Odor Control VFD	51,700 78,100			-	51,700
17718	Enery Audit - LED Pole/Arm Mounted Fixtures	7,500		100.0% 100.0%	-	78,100 7,500
17719	Lab - Smpler 4700 - Pretreatment Lab - Smpler 4700 - Pretreatment	7,500		100.0%	_	7,500 7,500
17721	Lab - Chlorophyll A Analyzer - Pond Water	5,400		100.0%		5,400
17721	Main - Stationary Gas Detector Replacment Ph 2	140,000		100.0%		140,000
17723	Main - Stationary das Detector Replacment	88,700		100.0%		88,700
17724	Main - Primary Clarifier Exhaust Fan Replacment	5,000		100.0%	_	5,000
17725	Main - Sump #3 Modification	10,000		100.0%	_	10,000
	NT - STRUCTURES					=5,555
17726	Headworks Equipment Rehab/Replacment	10,000		100.0%	-	10,000
17727	Roof Replacement - Digester 2nd Floor	125,000		100.0%	-	125,000
17728	Roof Replacement - AB/Blower Building	40,000		100.0%	-	40,000
17729	DAF Access Opening	20,000		100.0%	-	20,000
RECYCLIN	IG - DISTRICT					
15717	Isolation Valve on Kirkland Line (Devlin Rd)	49,200		100.0%	-	49,200
16716	Line Recycled Water Reservoir	1,320,000		100.0%	-	1,320,000
17730	Jameson Solids Pad Dump Bay	15,000		100.0%	-	15,000
17731	Jameson Office Trailer Replacment	25,000		100.0%	-	25,000
17732	Vehicle 710 - 8830 Tractor	200,000		100.0%	-	200,000
17733	Vehicle 172 - Ford F150	28,000		100.0%	-	28,000
	<u>G - EXPANSION</u>					
13727	North Bay Wate Reuse Project	845,000		100.0%	-	845,000
17734	MST RW Pipeline Extension	1,200,000		100.0%	-	1,200,000
<u>OTHER</u>						
13729	Development Technical Support	231,800	100.0%	0.0%	231,800	
	TOTAL	17,180,700	l		\$2,438,200	\$14,742,500

# 1	Name	FY 16/17 Proposed	FY 17/18 Projected	FY 18/19 Projected	FY 19/20 Projected	FY 20/21 Projected	FY 21/22 Projected	FY 22/23 Projected	FY 23/24 Projected	FY 24/25 Projected	FY 25/26 Projected
COLLECT	ION SYSTEM										
13701	Mainline Sewer Rehab	88,700	91,800	95,000	98,300	101,800	105,300	109,000	112,900	116,800	120,900
13702	Manhole Raising / Rehab	198,900	205,900	213,100	220,500	228,200	236,200	244,500	253,100	261,900	271,100
3 13703	Lateral Replacement / Rehab	72,000	74,500	77,100	79,800	82,600	85,500	88,500	91,600	94,800	98,100
1 13704	Cleanout Installation / Rehab	87,000	90,000	93,200	96,500	99,800	103,300	106,900	110,700	114,600	118,600
13705	I&I Reduction Program	200,000	207,000	-	-	-	-	-	-	-	-
5 16701	Basin L - I&I Reduction Project 5	1,400,000	-	-	-	-	-	-	-	-	-
7 (	Collection System Master Plan	-	-	860,600	-	-	-	-	-	-	-
3 (	Collection System Asset Management Software	-	100,000	-	-	-	-	-	-	-	-
9 ,	ACP CIPP Lining Project #2	350,000	500,000	350,000	-	-	-	-	-	-	-
) (	Upper Lateral Rehab - Basin L (Pilot) #2	5,000	155,300	-	-	-	-	-	-	-	-
L I	Upper Lateral Rehab - Basin L (Pilot) #3	-	5,000	160,700	-	-	-	-	-	-	-
2 1	Manhole Rehab - Nipak	90,000	· -	-	-	-	-	-	-	-	-
3 1	Infiltration Rehab - SSMH and Pipelines (Cl-)	400,000	-	-	-	-	-	-	-	-	-
	Soscol Ave (8th to Oil Company Rd)	500,000	517,500	-	-	-	-	-	-	-	-
15703	Sarco Creek Pipeline Replacement - Caltrans	1,050,000	· -	-	-	-	-	-	-	-	-
14703	Browns Valley Trunk	2,800,000	9,237,000	2,049,000	-	-	-	-	-	-	-
	Rehab - Rancho De Los Robles	400,000	1,200,000	, , , <u>-</u>	-	-	-	-	-	-	-
) (	66-inch Trunk CCTV Inspection	150,000		-	-	-	-	-	-	-	-
	Basin G - I&I Reduction Project 1	1,200,000	1,242,000	-	-	-	-	-	-	-	-
	Sewer System Inflow/Infiltration 2018	,,	1,759,500	1,821,100	_	_	_	_	_	_	-
	Sewer System Rehab/Replacement 2019	_	-	10,000	1,053,300	_	-	_	_	_	_
	Sewer System Inflow/Infiltration 2019	_	-	1,821,100	1,884,800	_	-	_	-	_	_
	Sewer System Rehab/Replacement 2020	_	_	-,,	1,053,300	1,090,100	_	_	_	_	_
	Sewer System Inflow/Infiltration 2020	_	_	_	1,884,800	1,950,800	_	_	_	_	_
	Sewer System Rehab/Replacement 2021	_	-	_	-	1,090,100	1,128,300	_	_	_	-
	Sewer System Inflow/Infiltration 2021	_	_	_	_	1,950,800	2,019,100	_	_	_	_
	Sewer System Rehab/Replacement 2022	_	_	_	_	-	1,128,300	1,167,800	_	_	_
	Sewer System Inflow/Infiltration 2022	_	_	_	_	_	2,019,100	2,089,700	_	_	_
	Sewer System Rehab/Replacement 2023	_	_	_	_	_	2,013,100	1,167,800	1,208,700	_	_
	Sewer System Inflow/Infiltration 2023	_	_	_	_	_	_	2,089,700	2,162,900	_	_
	Sewer System Rehab/Replacement 2024	_	_	_	_	_	_	2,003,700	1,208,700	1,251,000	_
	Sewer System Rehab/Replacement 2024 Sewer System Inflow/Infiltration 2024								2,162,900	2,238,600	
	Sewer System Rehab/Replacement 2025	_	_	_	_	_	_	_	2,102,300	1,251,000	1,294,800
	Sewer System Inflow/Infiltration 2025	-	-	-	-	•	-	•	-	2,238,600	2,316,900
	Sewer System Rehab/Replacement 2026	-	-	-	-	•	-	•	-	2,238,000	1,294,800
	Sewer System Inflow/Infiltration 2026	-	-	-	-	•	-	•	-	-	2,316,900
	ION SYSTEM - EQUIPMENT	-	-	-	-	-	-	-	-	-	2,310,900
									12.000		
	Locatable Mini-Camera #1 Replacement	-	- 11 100	-	-	-	-	-	13,600	-	14 600
	Locatable Mini-Camera #2 Replacement	-	11,100	-	11 000	-	-	-	-	-	14,600
	Locatable Mini-Camera #3 Replacement	-	-	-	11,900	-	12.700	-	-	-	-
	Locatable Mini-Camera #4 Replacement		-	-	-	-	12,700	-	-	7 100	-
	Eel Replacement #1	5,400	-	-	-	-	-	-		7,100	-
	Eel Replacement #2	-	-	-	5,900	-	-	-	-	-	-
	Eel Replacement #3	-	-	-	-	-	-	6,600	-	-	-
	Eel Replacement #4	-	-	-	-	-	-	-	-	-	7,300
	Vehicle 711 - Kubota	-	-	-	-	-	-	-	50,800	-	-
	Vehicle 173 - Plugup Truck - Secondary	-	-	-	-	-	-	-	-	81,800	
	Vehicle 185 - Plugup Truck - Primary	-	-	-	-	-	-	-	-	-	74,400
	Vehicle 180 - Ford Ranger	-	-	-	-	-	34,100	-	-	-	-
	Vehicle 154 - Ford Ranger	-	-	-	-	-	-	-	-	44,300	-
	Vehicle 015 - Water Trailer	-	-	-	-	10,500	-	-	-	-	-
	Vehicle 166 - Ford F-350	-	-	39,700	-	-	-	-	-	-	-
	Vehicle 706 - 410 Backhoe	-	-	-	-	-	195,000	-	-	-	-
5 '	Vehicle 510 - Water Truck	207,900	-	-	-	-	-	-	-	-	-

	#	Name	FY 16/17 Proposed	FY 17/18 Projected	FY 18/19 Projected	FY 19/20 Projected	FY 20/21 Projected	FY 21/22 Projected	FY 22/23 Projected	FY 23/24 Projected	FY 24/25 Projected	FY 25/26 Projected
56		Vehicle 175 - Hybrid Escape	-	-	-	37,600	-	-	-	-	-	-
57		Vehicle 504 - TV Truck	-	250,000	-	-	-	-	-	500,000	-	-
58		Vehicle 100 - Backhoe Trailer	-	· -	-	_	25,300	-	-	· -	-	-
59		Vehicle 512 - Rodder	_	_	_	180,000	-	_	-	-	_	-
60		Vehicle 18 - Cement Trailer	_	_	_	34,900	-	_	-	-	_	-
61		Vehicle 16 - 18ft Trailer	_	_	9,400	3 1,500	_	_	_	_	_	
62		Vehicle 205 - Forklift	_	_	-	_	40,300	_	_	_	_	
63		Vehicle 179 - Mini-Dump	_	_	_	_		62,000	_	_	_	
64		Vehicle 182 - Mini-Dump						62,000				
65		Vehicle 514 - 10 Yard Dump	•	•	-	-	-	-	-	-	-	252,600
66		Vehicle 528 - Mini-Vactor	•	•	•	-	-	-	528,900	-	-	232,000
			-	-	-	-	-		320,900	-	-	-
67 68		Vehicle 529 - Vactor	-	-	-	-	-	592,100 -	-	-	-	-
		Vehicle 183 - Repair Truck	-	-	-	-	-	-	66,700	-	-	-
	LIFT STA		4.750.000	4 200 000								
70		West Napa PS - Rehab	1,750,000	1,300,000	-	-	-	-	-	-	-	-
71		Main - Stonecrest Pump Rebuild	-	-	45,000	-	-	-	-	-	-	-
72		Lift Station Equipment Renewal & Replacement	-	-	-	40,000	-	-	-	-	-	-
73		Lift Station Equipment Renewal & Replacement	-	-	-	-	41,400	-	-	-	-	-
74		Lift Station Equipment Renewal & Replacement	-	-	-	-	-	42,800	-	-	-	-
75		Lift Station Equipment Renewal & Replacement	-	-	-	-	-	-	44,300	-	-	-
76		Lift Station Equipment Renewal & Replacement	-	-	-	-	-	-	-	45,900	-	-
77		Lift Station Equipment Renewal & Replacement	-	-	-	-	-	-	-	-	47,500	-
78	TREAT	<u>MENT</u>										
79	13745	Pond 1 Dredge	-	598,700	2,993,500	-	-	-	-	-	-	-
80		WWTP Master Plan	-	-	-	1,781,500	-	-	-	-	-	-
81		Siloxane Filter - Venturi	-	-	214,200	-	-	-	-	-	-	-
82		Headworks & Primary - Odor Control	20,000	-	-	-	-	-	-	-	-	-
83		Headworks - Biofilter	-	-	-	-	114,800	-	-	-	-	-
84	TREATM	MENT - EQUIPMENT										
85	13735	Dual Fuel Boiler Burner	-	-	-	-	-	-	-	-	-	109,500
86	13741	Secondary PS Pump Rebuild (3)	37,500	38,800	-	-	-	-	-	-	-	-
87		Secondary PS VFD Replacement (3)	53,600	55,400	57,400	-	-	-	-	-	-	-
	13743	Residual Analyzers (Deox) Replacements	-	-	-	71,300	-	_	_	-	_	87,600
	15707		_	11,100	11,500	· -	-	_	_	-	_	, , , , , , , , , , , , , , , , , , ,
90		3W Pipeline - Soscol PS to Plant - Rehab	_	33,300	,	_	-	_	-	-	_	-
91		3W Strainer	_	83,200	_	_	_	_	_	_	_	_
92		WWTP MP - 3W System Improvements	60,000	381,700	_	_	_	_	_	_	_	_
93		Turbidimeters (7) Tertiary Replacements	11,800	301,700	_	_	_	_	_	_	_	
94	13700	MLE Recirculation Pumps (2) - Nutrient Opt	11,000	_	_	237,500	_	_	_	_	_	_
95		Portable Pumps 10" (2)	_		172,100	237,300		_				
96		Sodium Bisulfite Tank #2	_	_	68,900	_	_	_	_	_	_	_
97		Marsh-to-Pond Pump Station Upgrade	-	-	66,900	88,700	-	-	-	-	-	-
98		FOG - Strain Press	200,000	-	-	88,700	-	-	-	-	-	-
			,	-	-	-	-	-	-	-	-	-
99		Energy Audit - Odor Control VFD	51,700	-	-	-	-	-	-	-	-	-
100		Energy Audit - LED Pole/Arm Mounted Fixtures	78,100	-	-	-	-	-	-	-	-	-
101		Ops - SBS Flash Mixers	-	-	85,700		-	-	-	-	-	-
102		Ops - RAS System Flow Meter	-	-	-	11,100	-	-	-	-	-	-
103		Lab - Upgrade Project	-	-	-	-	-	477,100	-	-	-	-
104		Lab - Lab Grade Dishwasher Replacement	-	-	-	-	-	-	-	-	12,700	-
105		Lab - Refrigerator/Freezer Replacement	-	-	5,500	-	-	-	-	-	-	-
106	15710	Lab - Amperometric Titrator Replacement	-	-	-	-	-	-	-	-	-	7,300
107		Lab - Microscope Replacement	-	-	-	53,000	-	-	-	-	-	-
108	14731	Lab - Balance Replacement	-	-	-	-	-	-	-	-	-	22,700
109		Lab - Autoclave Replacement	-	-	-	-	-	-	11,000	-	-	-
110		Lab - UV Spectrophotometer Replacement	-	25,000	-	-	-	-	-	-	-	-

			FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26
	#	Name	Proposed	Projected								
111		Lab - BOD Incubator Replacement	-	-	-	-	9,300	-	-	-	-	-
112		Lab - BOD System Replacement	-	-	-	-	-	53,400	-	-	-	-
113		Lab - Sampler 4700 Replacement	-	-	-	-	-	-	8,000	-	-	-
114		Lab - Sampler 4700 Replacement	-	-	-	-	-	-	8,000	-	-	-
115		Lab - Sampler 4700 Replacement	-	-	-	-	-	-	8,000	-	-	-
116		Lab - Sampler 4700 Replacement	-	-	-	-	-	-	-	8,300	-	-
117		Lab - Sampler 4700 Replacement	-	-	-	-	-	-	-	8,300	-	-
118		Lab - Sampler 4700 - Pretreatment	7,500	-	-	-	-	-	-	-	-	-
119		Lab - Sampler 4700 - Pretreatment	7,500	-	-	-	-	-	-	-	-	-
120		Lab - Centrifuge Replacement	-	-	-	-	-	-	7,500	-	-	-
121		Lab - ICP OES	-	-	114,800	-	-	-	-	-	-	-
122		Lab - FIA IC Unit	-	-	-	106,900	-	-	-	-	-	-
123		Lab - Chlorophyll A Analyzer - Pond Water	5,400	-	-	-	-	-	-	-	-	-
124		Lab - Liquid ID Station		-	-	94,200	-	-	-	-	-	-
125		Main - Stationary Gas Detector Replacement Ph 2	140,000	-	-	-	-	-	-	-	-	-
126		Main - Rotork Actuator Replacement	88,700	-	-	-	-	-	-	-	-	-
127		Main - Rotork Actuator Replacement	-	91,800	-	-	-	-	-	-	-	-
128		Main - Rotork Actuator Replacement	-	-	95,000	-	-	-	-	-	-	-
129		Main - Rotork Actuator Replacement	-	-	-	-	101,800	-	100.000	-	-	-
130		Main - Rotork Actuator Replacement	-	-	-	-	-	-	109,000	-	116 000	-
131	15713	Main - Rotork Actuator Replacement	25,000	-	-	-	-	-	-	-	116,800	-
133	13/12	Main - Rehab Pond 1 Storage Structure  Main - Septage Pump & Motor Replacement	25,000	26,800	-	-	-	-	-	-	-	-
134		Main - Septage Fullip & Motor Replacement	•	21,400	•	-	-	-	-	-	-	•
135	16712	Main - Primary Clarifier Mech/Struct Rehabilitation	-	150,000	312,900	323,800				_		_
136	10/12	Main - Primary Clarifier Exhaust Fan Replacement	5,000	130,000	312,300	323,800		_	_			
137		Main - Secondary Clarifier Mech/Struct Rehabilitation	-	_	_	_	175,000	175,000	_	_	_	_
138		Main - Floc Clarifier Recoating	_	_	_	118,800	-	-	_	_	_	_
139		Main - AB Diffusers/Instrumentation and Control	1,200,000	_	_	-	_	_	_	_	_	_
140		Main - Polymer Tanks (3) replacement	-	150,000	_	_	_	_	_	_	_	_
141		Main - Buried Metalic Piping (eval/rehab)	40,000	200,000	_	_	_	_	_	_	_	_
142		Main - 12kV Redundant Line (to RW sta)	-	-	53,600	_	-	_	_	_	_	_
143	16715	Main - Cogen Bottom End Overhaul	75,000	-	-	-	-	-	-	-	_	-
144		Main - Sump #3 Modification	10,000	-	-	-	-	-	-	-	_	-
145		Main - Filter Flow Control - Rotork Valves	-	-	-	33,300	-	-	-	-	-	-
146		Main - Magmeter Replacement (5)	-	-	32,100	-	-	-	-	-	-	-
147		Main - Dewatering Polymer Injection Mixers - Relocation	-	-	-	33,300	-	-	-	-	-	-
148		Main - Plant Door Replacement - Phase 1	-	-	-	22,200	-	-	-	-	-	-
149		Main - Plant Door Replacement - Phase 2	-	-	-	-	23,000	-	-	-	-	-
150		Main - Plant Door Replacement - Phase 3	-	-	-	-	-	23,800	-	-	-	-
151		Main - Plant Door Replacement - Phase 4	-	-	-	-	-	-	24,600	-	-	-
152		Main - Plant Door Replacement - Phase 5	-	-	-	-	-	-		25,400	-	-
153	13722	Vehicle 132 - Ford F-150	-	-	-	-	-	-	-	-	42,800	-
154	14723	Vehicle 162 - Ford F-250 Diesel (replace with F-150)	-	-	35,600	-	-	-	-	-	-	-
155		Vehicle 165 - Ford F-350	-	-	-	57,800	-	-	-	-	-	-
156		Vehicle 178 - Ford F-350 SRW	-	-	-	-	-	49,000	-	-	-	-
157		Vehicle 158 - Ford F-250 Diesel	-	-	-	61,400	-	-	-	-	-	-
158		Vehicle 176 - Escape Hybrid	-	-	-	37,600	-	-	-	-	-	-
159		Vehicle 28-39 - Electric Truck	-	-	-	17,100	-	-	-	-	-	-
160		Vehicle 204 - Forklift	-	-	-	41,700	-	-	-	-	-	-
161		Vehicle 513 - 10 Yard Dump	-	-	-	-	-	178,100	-	-	-	-
162		Vehicle 206 - Forklift TH103	-	-	-	-	188,800	-		-	-	-
163		Vehicle 184 - Ford F-550 EM Truck	-	-	-	-	-	-	66,700	-	-	-
164		Vehicle 131 - Ford F-250	-	-	-	-	-	-	48,400	-	-	-
165		Vehicle 302 - Boat	-	-	-	-	-	6,400	-	-	-	-

y fune   Proposed   Projected   Projec			FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26
140	#	Name	Proposed	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
Meshes 2 Canthon 1700   Meshes 15 Canthon 1700   Meshes 15 Canthon 1700   Meshes 15 Canthon 1700   Meshes 15 Canthon 1800   Meshes 1800   Mes	166	Vehicle 40 - Cushman 1200X	-	-	-	-	-	-	12,700	-	-	-
10	167	Vehicle 41 - Cushman 1200X	-	-	-	-	-	-	12,700	-	-	-
No.   No.	168	Vehicle 42 - Cushman 1200X	-	-	-	-	-	-	12,700	-	-	-
11   11   11   12   13   13   13   13	169 <b>TREAT</b>	MENT - STRUCTURES										
172   WITP Mr. Acetor loganic planetion   379,000   37	170	Headworks Equipment Rehab/Replacement	10,000	534,100	-	-	-	-	-	-	-	-
13   13   14   15   15   15   15   15   15   15	171	WWTP MP - Second Digester	-	-	-	-	693,500	2,080,500	13,869,700	-	-	-
14	172		-	-	-	-	255,500	766,500	5,109,900	-	-	-
15   15   15   WWT M. Promoting. Ph. 2. Trans Struck 2 to 4   5,000   225,000   5   5   5   5   5   5   5   5   5	173	Building HVAC and Lab Ventilation	-	379,600	-	-	-	-	-	-	-	-
176	174	WWTP Site Paving	-	-		-			-	500,000	-	-
17	175 1571	4 WWTP MP - Pond Imp - Ph 2 - Trans Struct 2 to 4		-	5,000	229,500	-	-	-	-	-	-
18				-		-			-	-	-	-
179		· · · · · · · · · · · · · · · · · · ·	40,000	-		_			-	-	-	-
180   Roof Replacement-Plantal Building(s)   1		·	-	-	-	55,400			-	-	-	-
181   Roof Replacement - Plant Building(s)   -   -   -   -   -   -   -   -   -			-	-	-	-	57,400		-	-	-	-
182   Roof Replacement - Planet Building(s)		·	-	-	-	-	-	59,400	-	-	-	-
18		·	-	-	-	-	-	-	61,500	-	-	-
No   No   No   No   No   No   No   No			-	-	-	-	-	-	-	63,600	-	-
185   SCADA MP Phase \$   Security Study					-	-	-	-	-	-	-	-
186			20,000	-	-	-	-	-	-	-	-	-
SCADA MP Project #1												
SADA MP Project #2   SADA MP Project #3   SADA MP Project #4   SADA MP Project #4   SADA MP Project #4   SADA Server Replacement   SADA SERVER SER			-	-	250,000		-	-	-	-	-	-
SADA MP Project #3		-	-	-	-		-	-	-	-	-	-
SZADA Server Replacement			-	-	-	-	*	-	-	-	-	-
SZADA Server Replacement		•	-	-	-	-	-	200,000	-	-	-	-
SCADA Server Replacement   SCADA SERVER SE		•	-	-	-	16,000	-	-	-	-	-	-
195		·	-	-	-	-	-	,	-	-	-	-
197   197	-	·	-	-	-	-	-	-	-	16,000	-	-
198   197   Necycled Water Reservoir - Sump Pump Replacement   9,8870   91,800   -   -   -   -   -   -   -   -   -			4 220 000									
198   1517   Solation Valve on Kirkland Line (Devlin Road)						-	-	-	-	-	-	-
199   Jameson 24" Flow Meter Rehab				•	91,800	-	-	-	-	-	-	-
Strikland Recycled Water Pipeline Rehabilitation					-	-	-	-	-	-	-	-
Description				6,200	-	-	727 600	-	-	-	-	-
202   Jameson Solids Pad Dump Bay   15,000   -   -   -   -   -   -   -   -   -			-	-	•	-		-	-	-	-	-
203   Jameson PSVFD			15 000	-	-	-	30,900	-	-	-	-	-
204       Jameson Office Trailer Replacement       25,000       -        -       -       -       -       -       -       -       -       -       -       -       -       -       -       -        -       -       -       -       -       -       -       -       -       -       -       -       -       -       -        -		• •	13,000		68 900							
205   Jameson Sprinkler Replacement - Field A   1   2   3   88,700   -   -   -   -   -   -   -   -   -			35,000	_	08,500	_	_	_	_	_	_	_
206   Jameson Sprinkler Replacement - Field B		•	23,000	_	_	88 700	_	_		_		_
207       Jameson Sprinkler Replacement - Field C       -       -       -       95,000       -       -       -       -       -         208       Jameson Sprinkler Replacement - Field D       -       -       -       -       -       -       98,300       -       -       -       -         209       Jameson Sprinkler Replacement - Field E       -		•	_	_	_	-	91 800	_	_	_	_	_
208       Jameson Sprinkler Replacement - Field D       -       -       -       -       -       98,300       -        -       <			_	_	_	_	51,000	95,000		_		_
209       Jameson Sprinkler Replacement - Field E       -       -       -       -       -       -       -       101,800       -       -         210       Equipment/Rehabs       -       -       -       175,000       -       -       -       -       -       -         211       Soscol RW Pump Replacement       -       -       -       150,000       -       -       -       -       -         212       Equipment/Rehabs       -       -       -       -       200,000       -       -       -       -       -         213       Soscol RW Pump Replacement       -<		•	_	_	_	_	_	-	98 300	_	_	_
210       Equipment/Rehabs       -       -       -       175,000       - </td <td></td> <td></td> <td>_</td> <td>_</td> <td>_</td> <td>_</td> <td>_</td> <td>_</td> <td>50,500</td> <td>101 800</td> <td>_</td> <td>_</td>			_	_	_	_	_	_	50,500	101 800	_	_
211       Soscol RW Pump Replacement       -       -       -       150,000       -			_	_	_	175.000	-	_	-	-	-	_
212       Equipment/Rehabs       -       -       -       -       200,000       -       -       -       -       -         213       Soscol RW Pump Replacement       -       -       -       -       150,000       -       -       -       -         214       Equipment/Rehabs       -			_	_	_		150,000	_	_	_	_	_
213       Soscol RW Pump Replacement       - <th< td=""><td></td><td>·</td><td>_</td><td>_</td><td>_</td><td>_</td><td>-</td><td>200.000</td><td>-</td><td>-</td><td>-</td><td>_</td></th<>		·	_	_	_	_	-	200.000	-	-	-	_
214     Equipment/Rehabs     -     -     -     -     -     225,000     -     -       215     Soscol RW Pump Replacement     -     -     -     -     -     -     -     -     150,000     -       216     Equipment/Rehabs     -     -     -     -     -     -     -     -     250,000       217     Pull Flail Chopper Replacement     -     31,900     -     -     -     -     -     -     -     -     -     -       218     Vehicle 710 - 8830 Tractor     200,000     -     -     -     -     -     -     -     -     -     -     -     -       219     Vehicle 172 - Ford F-150     28,000     -		• •	_	-	-	-	-	-	150.000	-	_	-
215         Soscol RW Pump Replacement         -         -         -         -         -         -         150,000         -           216         Equipment/Rehabs         -         -         -         -         -         -         -         250,000           217         Pull Flail Chopper Replacement         -         31,900         -		·	_	_	_	_	-	-	-	225.000	-	_
216     Equipment/Rehabs     -<		• • •	-	-	-	-	-	-	-		150,000	-
217     Pull Flail Chopper Replacement     -     31,900     - <t< td=""><td></td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td>250,000</td></t<>			-	-	-	-	-	-	-	-		250,000
218     Vehicle 710 - 8830 Tractor     200,000     -			-	31,900	-	-	-	-	-	-	-	,
219 Vehicle 172 - Ford F-150 28,000			200,000	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-
	220 1472	5 Vehicle 723 - Yanmar Tractor		-	-	-	-	-	-	104,400	-	-

		FY 16/17	FY 17/18	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26
#	Name	Proposed	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected	Projected
221	Vehicle 723/720 - Attachments/Implements	-	-	28,700	-	-	-	-	-	-	-
222	Vehicle 171 - Ford F-350	-	-	-	-	64,900	-	-	-	-	-
223	Vehicle 174 - Ford F-350 SB	-	-	-	105,700	-	-	-	-	-	-
224	Vehicle 311 - Kubota	-	-	-	-	23,900	-	-	-	-	-
225	Vehicle 312 - Kubota	-	-	-	-	23,900	-	-	-	-	-
226	Vehicle 721 - John Deer 8430T Tractor	-	-	-	-	334,000	-	-	-	-	-
227	Vehicle 17 - 18ft Trailer	-	-	-	-	-	-	-	-	-	11,000
229	Vehicle 720 - KubotaTractor Loader	-	-	-	-	-	-	-	-	74,500	-
230	Vehicle 013 - Pipe Dolly	-	-	-	-	-	16,300	-	-	-	-
231 RECYC	LING - EXPANSION										
232 13727	7 North Bay Water Reuse Project	845,000	405,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	-
233	MST RW Pipeline Extension	1,200,000	700,000	-	-	-	-	-	-	-	-
234	NBWRA - Jameson Storage - 600 AF	-	-	-	-	-	-	346,000	1,730,000	15,224,000	-
235	NBWRA - 3rd Reservoir	-	-	-	-	-	-	58,000	290,000	2,552,000	-
236	NBWRA - RW Expansion Ph 2	-	-	-	-	-	-	44,000	220,000	1,936,000	-
237	NBWRA - MST RW Pipeline - North Loop	-	-	-	-	-	-	200,000	1,000,000	8,800,000	-
238	NBWRA - MST RW Pipeline - East Extension	-	-	-	-	-	-	76,000	380,000	3,344,000	-
239	RW Soscol Pump Station Upgrade	-	-	-	-	2,375,400	-	-	-	-	-
240 <b>OTHER</b>											
241 13729	Development Technical Support	231,800	239,900	248,300	257,000	266,000	275,300	284,900	294,900	305,200	-
242	Solar Purchase Buy Out	-	-	-	-	-	2,458,500	-	-	-	-
243	Generator / Micro Fuel Cell	-	-	-	573,800	-	-	-	-	-	-
244 14728	3 Vehicle 161 - Ford C-Max	-	-	-	-	-	-	-	46,500	-	-
245	Vehicle 177 - Ford Escape Hybrid	-	-	-	49,800	-	-	-	-	-	-
246 14729	Vehicle 133 - Ford F-150	-	-	-	-	-	-	-	42,300	-	-
247	Vehicle 011 - CSET Trailer	-	-	-	24,500	-	-	-	-	-	-
248 14730	Vehicle 607 - Ford Taurus	-	-	-	-	24,000	-	-	-	-	-
249	Vehicle 130 - Ford F150	-	-	-	-	-	-	33,200	-	-	-
250											
251	PROJECT TOTALS	\$17,180,700	\$21,244,900	\$12,740,500	\$11,798,200	\$12,809,200	\$15,115,100	\$28,662,900	\$13,128,300	\$40,456,000	\$8,669,100
252	Cumulative Total (FY 16/17 - FY 25/26)	\$17,180,700	\$38,425,600	\$51,166,100	\$62,964,300	\$75,773,500	\$90,888,600	\$119,551,500	\$132,679,800	\$173,135,800	\$181,804,900