




2015-2016 CAPITAL BUDGET

**2016-2020 CAPITAL
IMPROVEMENT PROGRAM**



**ENVIRONMENTAL
AND
UTILITY SERVICES
CSA**

City Service Area Environmental and Utility Services

Mission: Delivering world class utility services and programs to improve our health, environment, and economy.

The Sanitary Sewer System Capital Improvement Program (CIP) constructs sewer improvement projects that enhance sewer capacity to meet economic development goals and rehabilitates existing sewers to minimize sanitary sewer overflows.

The Storm Sewer System CIP continues a multi-year strategy to replace or rehabilitate pump stations to reduce the risk of local flooding during storm events and storm water quality improvements for regulatory compliance. The program addresses the drainage needs in residential neighborhoods, business districts, and walking routes to schools and public facilities. Major investments include the development of a city-wide master plan.

The Water Pollution Control Plant (Plant) is a regional advanced wastewater treatment facility that serves the cities of San José, Santa Clara, and Milpitas, as well as the Cupertino Sanitary District, West Valley Sanitation District, County Sanitation Districts 2-3, and Burbank Sanitary District. The Plant is one of the largest tertiary wastewater treatment works in the western United States, serving more than 1.4 million residents and approximately 17,000 businesses. A major master planning effort was completed in late 2013, resulting in Environmental Impact Report certification and formal adoption of a 30-year master plan. The master plan provides the framework for over \$1.0 billion in new construction at the Plant over the next 10 to 15 years, and responds to aging infrastructure, future regulations, population growth, and treatment technology improvements.

The Water Utility System CIP ensures reliable utility infrastructure for the San José Municipal Water System and includes the construction of new facilities, maintenance of existing infrastructure, and improvements to existing facilities.



Interior of Trimble Reservoir



Water Pollution Control Plant

CSA CAPITAL PROGRAMS

- Sanitary Sewer System
- Storm Sewer System
- Water Pollution Control Plant
- Water Utility System

Recent Accomplishments

- Pine Avenue Sanitary Sewer Replacement – Replaced approximately one mile of 6- to 12-inch sanitary sewer pipe along Pine Avenue (completed in Dec. 2014)
- Spreckles Sanitary Sewer Force Main Supplement – Installed 4,600 feet of 10-inch sanitary sewer force main pipe along Spreckles Avenue (completed in Nov. 2014)
- Madrona Avenue Storm and Sanitary Sewer Replacement – Addressed ponding and disconnected storm laterals from existing sanitary sewer system (completed in July 2014)
- South Bay Water Recycling Master Plan – Developed a strategic guidance document that provides recommendations on potential future expansion and system maintenance (completed in Dec. 2014)
- Nortech and Trimble Reservoir Rehabilitation – Rehabilitated two 3.0 million gallon steel reservoirs that provide fire protection and emergency supply for the North San José and Alviso service areas (completed in July 2014)

Program Highlights

Sanitary Sewer System Capital Program

2016-2020 Adopted CIP: \$242.6 million

Sanitary Sewer Rehabilitation Projects:

- Cast Iron Pipe – Remove and Replace
- Condition Assessment Sewer Repairs

Sanitary Sewer Interceptor/Capacity Improvement Projects:

- 60-inch Brick Interceptor, Phase VIA and VIB
- Monterey-Riverside Relief Sanitary Sewer Improvements

Storm Sewer System Capital Program

2016-2020 Adopted CIP: \$52.3 million

- Alviso Storm Pump Station
- Chynoweth, Ocala, and Park Avenues Green Street Projects
- Large Trash Capture Devices
- Storm Sewer Master Plan – City-wide

Water Pollution Control Capital Program

2016-2020 Adopted CIP: \$1.07 billion

Preliminary Wastewater Treatment:

- Headworks Improvements
- New Headworks

Primary Wastewater Treatment:

- Iron Salt Feed Station

Biosolids:

- Digester and Thickener Facilities Upgrade

Electrical Systems and Power Generation:

- Combined Heat and Power Equipment Repair and Rehabilitation
- Energy Generation Improvements

Water Utility System Capital Program

2016-2020 Adopted CIP: \$35.8 million

- Cadwallader Reservoir Rehabilitation
- Meter Replacements
- North San José Water Well #5 Dev. and Constr.

CSA OUTCOMES

(Supported by the Capital Programs)

- ✓ Reliable Utility Infrastructure
- ✓ Healthy Streams, Rivers, Marsh and Bay
- ✓ Safe, Reliable and Sufficient Water Supply

City Service Area Environmental and Utility Services

Performance Measures

A set of consistent and comprehensive performance measurements along with targets and goals has been established for the entire capital program and adopted for each individual CSA. Measures focus on schedule (cycle time) and project delivery cost. Please see the Budget Guide section narrative for additional information on capital performance measurements.

Outcome: Quality CIP Projects Delivered On-Time and On-Budget

Strategic Goals	CSA Performance Measures	2013-2014 Actual*	2014-2015 Target	2014-2015 Estimate	2015-2016 Target	5-Year Goal
Environmental and Utility Services CSA delivers quality Capital Improvement Program (CIP) projects on-time and on-budget	1. % of CIP projects delivered** within 2 months of approved baseline schedule	93% (26/28)	85%	86% (32/37)	85%	85%
	2. % of CIP projects that are completed within the approved baseline budget***	83% (19/23)	90%	97% (29/30)	90%	90%

Changes to Performance Measures from 2014-2015 Adopted Budget: No

* The 2013-2014 Actual number of projects may vary from the 2013-2014 Adopted Budget Estimate as a result of the date of the estimated beneficial use of the project being revised and the project expected to be delivered in the following fiscal year. Also, the number of projects may change with the inclusion of projects in the 2013-2014 Actual not originally included in the 2013-2014 Adopted Budget Estimate due to incomplete project information at that time.

** Projects are considered to be "delivered" when they are available for their intended use.

*** Projects are considered "completed" when final cost accounting has occurred and the project has been accepted. Projects are considered "on budget" when the total expenditures do not exceed 101% of the baseline budget.

In 2014-2015, the Environmental and Utility Services CSA is estimated to deliver 32 of 37 (86%) projects within two months of the approved baseline schedule, which is slightly above the performance target of 85%. Some of the notable capital projects delivered in 2014-2015 include sanitary and storm sewer improvements (Husted-Richland, Electra Way, and Minnesota Avenue), the Nortech and Trimble Reservoir Rehabilitation project, and various projects at the Water Pollution Control Plant, such as the Handrail Replacement Phase V, Treatment Plant Fire Main Replacement Phase III, and Digester Gas Storage Replacement projects.

In 2014-2015, an estimated 29 of 30 (97%) of the projects either have been, or are expected to be completed within their baseline budgets, which is above the one-year performance target of 90%. A few of the notable capital projects completed in 2014-2015 include sanitary and storm sewer improvements (Arroyo De Platina, Brookwood Terrace, Minnesota Avenue, Pine Avenue, and the Willowgate area), and the Gateway Storm Pump Station. The CSA continues to work to strengthen the alignment of project scopes, schedules, and budgets, while also accounting for external market conditions that may affect the delivery of capital projects. Staff relies heavily on the cost estimating and tracking tools that are available through the City's Capital Project Management System (CPMS). These tools allow project management staff to effectively track project costs on an ongoing basis and assist in ensuring that expenditures remain within budgeted levels.

Capital Program Summary by City Service Area

Environmental and Utility Services

	2015-2016 Budget	2016-2020 CIP Budget	Total Budget (All Years)	Start Date	End Date
<u>Sanitary Sewer System</u>					
11th Street Sanitary Sewer Replacement	1,498,000	1,498,000	1,919,000	3rd Qtr. 2013	2nd Qtr. 2016
30" Old Bayshore Supplement	4,340,000	4,340,000	4,832,000	3rd Qtr. 2008	2nd Qtr. 2016
60" Brick Interceptor, Phase VIA and VIB	29,107,000	30,792,000	68,871,382	3rd Qtr. 2009	2nd Qtr. 2018
Almaden Expressway Sanitary Sewer Improvements	406,000	406,000	5,142,000	3rd Qtr. 2010	2nd Qtr. 2016
Almaden Supplement Sewer Rehabilitation (North)		2,730,000	2,980,000	3rd Qtr. 2018	2nd Qtr. 2019
Alum Rock Avenue Sanitary Sewer Replacement	180,000	180,000	1,205,000	3rd Qtr. 2013	4th Qtr. 2015
Bollinger Road - Moorpark Avenue - Williams Road Sanitary Sewer Improvements	3,780,000	3,810,000	4,340,000	3rd Qtr. 2012	2nd Qtr. 2017
Capital Program and Public Works Department Support Service Costs	1,214,000	3,518,000		*	Ongoing
Capitol Avenue Sanitary Sewer Improvements	2,450,000	2,450,000	2,742,000	3rd Qtr. 2014	2nd Qtr. 2016
Cast Iron Pipe - Remove and Replace	4,500,000	22,500,000		*	Ongoing
Cast Iron Pipe Replacement - West	231,000	231,000	1,985,000	3rd Qtr. 2013	2nd Qtr. 2016
Coleman Road Sanitary Sewer Improvements	1,433,000	1,433,000	1,594,000	3rd Qtr. 2013	2nd Qtr. 2016
Condition Assessment Sewer Repairs	5,500,000	27,500,000		*	Ongoing
Fee Administration	81,000	418,000		*	Ongoing
Flow Monitoring Program (Master Planning)	750,000	3,750,000		*	Ongoing
Fourth Major Interceptor, Phase IIB/IIIB	2,517,000	2,517,000	2,763,000	3rd Qtr. 2009	2nd Qtr. 2016
Fourth Major Interceptor, Phase VIIA		5,500,000	5,500,000	3rd Qtr. 2018	2nd Qtr. 2020
Husted Avenue Sanitary Sewer Improvement - Phase II	3,326,000	3,326,000	3,676,000	3rd Qtr. 2014	2nd Qtr. 2016
Husted-Richland Sanitary Sewer Improvements	50,000	50,000	3,527,000	3rd Qtr. 2010	4th Qtr. 2015
Immediate Replacement and Diversion Projects	5,716,000	18,716,000		*	Ongoing
Inflow and Infiltration Reduction	500,000	2,500,000		*	Ongoing
Infrastructure - Sanitary Sewer Condition Assessment	2,500,000	12,500,000		*	Ongoing
Infrastructure Management System	37,000	195,000		*	Ongoing
Kelez Drive and El Prado Drive Sanitary Sewer Replacement	147,000	147,000	1,278,000	3rd Qtr. 2013	2nd Qtr. 2016
Mackey Avenue Sanitary Sewer Replacement	111,000	111,000	1,588,000	3rd Qtr. 2010	4th Qtr. 2015
Master Planning Updates	1,200,000	5,800,000		*	Ongoing
Minnesota Avenue Sanitary Sewer Improvements	50,000	50,000	1,731,000	3rd Qtr. 2010	3rd Qtr. 2015
Monterey-Riverside Relief Sanitary Sewer Improvements	7,472,000	7,472,000	8,357,000	3rd Qtr. 2011	2nd Qtr. 2016

Capital Program Summary by City Service Area

Environmental and Utility Services

	2015-2016 Budget	2016-2020 CIP Budget	Total Budget (All Years)	Start Date	End Date
<u>Sanitary Sewer System (Cont'd.)</u>					
Payments to West Valley Sanitation District	10,000	50,000		*	Ongoing
Permit Review and Inspection for Outside Agencies	50,000	150,000		*	Ongoing
Preliminary Engineering	950,000	4,750,000		*	Ongoing
Program Management	475,000	2,375,000		*	Ongoing
Public Art	1,617,000	1,934,000		*	Ongoing
Public Works Engineering Services Equipment (Materials Lab)	40,000	200,000		*	Ongoing
Rehabilitation of Sanitary Sewer Pump Stations	3,218,000	3,285,000	8,611,000	3rd Qtr. 2008	2nd Qtr. 2017
Reinforced Concrete Pipe Rehabilitation Program	500,000	2,500,000		*	Ongoing
Rincon Avenue - Virginia Avenue Sanitary Sewer Improvements		3,731,000	3,885,000	3rd Qtr. 2017	2nd Qtr. 2019
Spreckles Sanitary Sewer Force Main Supplement, Phase II	2,803,000	2,803,000	3,337,000	3rd Qtr. 2013	2nd Qtr. 2016
Stevens Creek Boulevard Sanitary Sewer Improvements	2,948,000	2,948,000	3,246,000	3rd Qtr. 2012	2nd Qtr. 2016
Story Road Easement Sanitary Sewer Replacement	300,000	300,000	1,600,000	3rd Qtr. 2012	4th Qtr. 2015
Story Road Sanitary Sewer Improvements	220,000	3,158,000	3,158,000	4th Qtr. 2015	2nd Qtr. 2017
The Villages Sanitary Sewer Replacement	315,000	315,000	1,192,000	3rd Qtr. 2013	4th Qtr. 2015
Transfer to the City Hall Debt Service Fund	350,000	1,907,000		*	Ongoing
Transfer to the General Fund - Human Resources/Payroll/ Budget Systems Upgrade	44,000	44,000	6,551,000	N/A	N/A
Trimble Road and Capewood Lane Sanitary Sewer Improvements	400,000	5,063,000	5,345,000	2nd Qtr. 2014	2nd Qtr. 2017
Urgent Rehabilitation and Repair Projects	7,000,000	35,000,000		*	Ongoing
Westmont Avenue and Harriet Avenue Sanitary Sewer Improvement		3,796,000	3,796,000	3rd Qtr. 2018	2nd Qtr. 2020
Total: Construction/Non-Construction	100,336,000	238,749,000			
Ending Fund Balance	3,589,268	3,817,268			**
Total: Sanitary Sewer System	103,925,268	242,566,268			**
<u>Storm Sewer System</u>					
Alviso Storm Network Infiltration Control	192,000	592,000		*	Ongoing
Alviso Storm Pump Station	9,329,000	9,329,000	10,809,000	3rd Qtr. 2013	2nd Qtr. 2016
Capital Program and Public Works Department Support Service Costs	545,000	1,290,000		*	Ongoing

Capital Program Summary by City Service Area

Environmental and Utility Services

	2015-2016 Budget	2016-2020 CIP Budget	Total Budget (All Years)	Start Date	End Date
Storm Sewer System (Cont'd.)					
Charcot Storm Pump Station Reserve	2,000,000	2,000,000	2,000,000	N/A	N/A
Charcot Storm Pump Station at Coyote Creek	500,000	500,000	1,500,000	3rd Qtr. 2014	2nd Qtr. 2016
Chynoweth Avenue Green Street	1,508,000	1,989,000	2,184,000	3rd Qtr. 2014	2nd Qtr. 2017
Fee Administration	25,000	145,000		*	Ongoing
Flow Monitoring Program	1,154,000	2,170,000		*	Ongoing
Infrastructure Management System	8,000	40,000		*	Ongoing
Large Trash Capture Devices	4,852,000	7,852,000	11,480,000	3rd Qtr. 2014	2nd Qtr. 2017
Martha Gardens Green Alley	343,000	343,000	1,536,000	2nd Qtr. 2013	2nd Qtr. 2016
Minor Neighborhood Storm Sewer Improvements	1,500,000	3,600,000		*	Ongoing
Ocala Avenue Green Street Project	631,000	1,701,000	1,831,000	1st Qtr. 2015	2nd Qtr. 2017
Outfall Rehabilitation - Capital	1,000,000	3,000,000		*	Ongoing
Park Avenue Green Street Pilot	1,000,000	1,000,000	1,206,000	3rd Qtr. 2014	2nd Qtr. 2016
Permit Review and Inspection for Outside Agencies	50,000	150,000		*	Ongoing
Preliminary Engineering	180,000	840,000		*	Ongoing
Program Management	150,000	750,000		*	Ongoing
Public Art	468,000	572,000		*	Ongoing
Storm Pump Station Rehabilitation and Replacement	500,000	1,700,000		*	Ongoing
Storm Sewer Fee Study	10,000	50,000	85,000	3rd Qtr. 2007	2nd Qtr. 2020
Storm Sewer Improvements - Special Corridors	1,000,000	2,200,000		*	Ongoing
Storm Sewer Master Plan - City-wide	950,000	4,550,000		*	Ongoing
Storm Sewer Master Plan Reserve	1,000,000	1,000,000	1,000,000	N/A	N/A
Transfer to the City Hall Debt Service Fund	105,000	573,000		*	Ongoing
Transfer to the General Fund - Human Resources/Payroll/ Budget Systems Upgrade	14,000	14,000	17,000	N/A	N/A
Transfer to the General Fund - Interest Earnings	2,000	10,000		*	Ongoing
Urgent Flood Prevention and Repair Projects	1,000,000	3,500,000		*	Ongoing
Total: Construction/Non-Construction	30,016,000	51,460,000			
Ending Fund Balance	1,016,666	827,666			**

Capital Program Summary by City Service Area

Environmental and Utility Services

	2015-2016 Budget	2016-2020 CIP Budget	Total Budget (All Years)	Start Date	End Date
Storm Sewer System (Cont'd.)					
Total: Storm Sewer System	31,032,666	52,287,666 **			
Water Pollution Control					
Advanced Facility Control and Meter Replacement	1,600,000	30,924,000	33,124,000	3rd Qtr. 2010	4th Qtr. 2019
Aeration Basin Future Modifications		846,000	50,277,000	3rd Qtr. 2019	4th Qtr. 2030
Aeration Tanks and Blower Rehabilitation	1,815,000	36,379,000	119,297,000	1st Qtr. 2015	1st Qtr. 2029
Alternative Filter Technology Field Verification		81,000	3,258,000	3rd Qtr. 2019	3rd Qtr. 2024
Capital Program and Public Works Department Support Service Costs	789,000	4,028,000		* Ongoing	Ongoing
Combined Heat and Power Equipment Repair and Rehabilitation	795,000	915,000	17,629,000	3rd Qtr. 2012	3rd Qtr. 2016
Construction-Enabling Improvements	3,476,000	3,552,000	3,552,000	3rd Qtr. 2015	4th Qtr. 2016
Digested Sludge Dewatering Facility	1,430,000	68,395,000	70,876,000	2nd Qtr. 2014	3rd Qtr. 2020
Digester and Thickener Facilities Upgrade	90,286,000	92,581,000	172,145,000	3rd Qtr. 2006	4th Qtr. 2025
East Primary Rehabilitation, Seismic Retrofit, and Odor Control	1,636,000	36,030,000	113,204,000	3rd Qtr. 2010	4th Qtr. 2025
Energy Generation Improvements	16,600,000	88,300,000	115,431,000	3rd Qtr. 2012	1st Qtr. 2019
Equipment Replacement	1,663,000	8,315,000		* Ongoing	Ongoing
Equipment Replacement Reserve	5,000,000	5,000,000	5,000,000	N/A	N/A
FOG Receiving		313,000	12,850,000	3rd Qtr. 2019	2nd Qtr. 2026
Facility Wide Water Systems Improvements	1,192,000	15,446,000	15,756,000	3rd Qtr. 2014	3rd Qtr. 2020
Filter Rehabilitation	1,361,000	33,024,000	34,220,000	3rd Qtr. 2013	2nd Qtr. 2022
Final Effluent Pump Station & Stormwater Channel Improvements		902,000	47,358,000	3rd Qtr. 2019	3rd Qtr. 2025
Headworks Improvements	4,106,000	30,115,000	30,542,000	3rd Qtr. 2012	3rd Qtr. 2020
Iron Salt Feed Station	5,250,000	5,742,000	7,193,000	1st Qtr. 2012	2nd Qtr. 2017
Lagoons and Drying Beds Retirement	443,000	4,394,000	34,382,000	1st Qtr. 2016	2nd Qtr. 2028
Master Plan Updates		3,000,000	3,000,000	4th Qtr. 2016	4th Qtr. 2018
New Disinfection Facilities		952,000	56,977,000	2nd Qtr. 2019	4th Qtr. 2027
New Headworks	3,771,000	92,104,000	96,026,000	3rd Qtr. 2012	2nd Qtr. 2022
Nitrification Clarifier Rehabilitation	1,300,000	49,479,000	53,182,000	3rd Qtr. 2009	2nd Qtr. 2022
Outfall Bridge and Levee Improvements	1,083,000	9,412,000	9,828,000	3rd Qtr. 2014	4th Qtr. 2020

Capital Program Summary by City Service Area

Environmental and Utility Services

	2015-2016 Budget	2016-2020 CIP Budget	Total Budget (All Years)	Start Date	End Date
Water Pollution Control (Cont'd.)					
Payment for Clean Water Financing Authority Trustee	5,000	25,000	*	Ongoing	Ongoing
Plant Electrical Reliability	2,000,000	2,000,000	30,437,000	3rd Qtr. 2003	2nd Qtr. 2016
Plant Infrastructure Improvements	1,000,000	5,000,000	*	Ongoing	Ongoing
Plant Instrument Air System Upgrade	4,000,000	4,523,000	9,063,000	3rd Qtr. 2014	1st Qtr. 2018
Preliminary Engineering	1,000,000	5,000,000	11,164,000	N/A	N/A
Program Management	10,065,000	23,310,000	44,522,000	N/A	N/A
Public Art	776,000	3,057,000	*	Ongoing	Ongoing
Record Drawings	250,000	13,577,000	13,577,000	3rd Qtr. 2014	2nd Qtr. 2020
SBWR Extension	3,408,000	3,408,000	*	Ongoing	Ongoing
SBWR System Reliability and Infrastructure Replacement	4,692,000	4,692,000	4,883,000	3rd Qtr. 2012	2nd Qtr. 2016
Secondary Clarifier Rehabilitation		25,881,000	26,559,000	1st Qtr. 2017	4th Qtr. 2021
State Revolving Fund Loan Repayment	4,464,000	15,196,000	87,314,000	3rd Qtr. 1998	2nd Qtr. 2019
Support Building Improvements	890,000	16,845,000	54,734,000	3rd Qtr. 2015	4th Qtr. 2026
Transfer to Clean Water Financing Authority Debt Service 2015-2016	1,556,000	216,463,000	216,463,000	3rd Qtr. 2015	2nd Qtr. 2045
Transfer to the City Hall Debt Service Fund	145,000	791,000	*	Ongoing	Ongoing
Transfer to the Clean Water Financing Authority Debt Service Payment Fund	6,943,000	30,663,000	52,459,000	2nd Qtr. 1996	4th Qtr. 2020
Transfer to the General Fund - Human Resources/Payroll/ Budget Systems Upgrade	21,000	21,000	25,000	N/A	N/A
Treatment Plant Distributed Control System	500,000	2,000,000	5,295,000	1st Qtr. 2012	2nd Qtr. 2019
Treatment Plant Engine Rebuild	490,000	490,000	2,941,000	1st Qtr. 2012	2nd Qtr. 2016
Treatment Plant Fire Main Replacement	10,000	10,000	3,541,000	1st Qtr. 2012	2nd Qtr. 2016
Tunnel Rehabilitation	1,000,000	9,220,000	27,719,000	4th Qtr. 2015	3rd Qtr. 2026
Urgent and Unscheduled Treatment Plant Rehabilitation	1,500,000	7,500,000	*	Ongoing	Ongoing
Yard Piping and Road Improvements	1,127,000	16,230,000	*	Ongoing	Ongoing
Total: Construction/Non-Construction	189,438,000	1,026,131,000			
Ending Fund Balance	18,573,357	44,682,357	**		

Capital Program Summary by City Service Area

Environmental and Utility Services

	2015-2016 Budget	2016-2020 CIP Budget	Total Budget (All Years)	Start Date	End Date
Water Pollution Control (Cont'd.)					
Total: Water Pollution Control	208,011,357	1,070,813,357 **			
Water Utility System					
Advance System Design	200,000	1,000,000	*	Ongoing	Ongoing
Cadwallader Reservoir Rehabilitation	1,550,000	1,570,000	1,820,000	3rd Qtr. 2014	2nd Qtr. 2017
Capital Program and Public Works Department Support Service Costs	26,000	64,000	*	Ongoing	Ongoing
Edenvale Reservoir Rehabilitation	75,000	975,000	975,000	2nd Qtr. 2016	2nd Qtr. 2017
Elkins Way Main Replacement		1,030,000	1,030,000	3rd Qtr. 2017	3rd Qtr. 2019
Gumdrop Drive Main Replacement		1,140,000	1,140,000	3rd Qtr. 2016	2nd Qtr. 2019
Infrastructure Improvements	780,000	3,960,000	*	Ongoing	Ongoing
Major Facilities Fee Administration	15,000	75,000	*	Ongoing	Ongoing
Major Water Facility Fee Update	50,000	50,000	50,000	3rd Qtr. 2015	2nd Qtr. 2016
Master Plan Engineering	140,000	750,000	*	Ongoing	Ongoing
Meter Installations	50,000	250,000	*	Ongoing	Ongoing
Meter Replacements	3,500,000	3,500,000	4,497,000	3rd Qtr. 2013	3rd Qtr. 2016
Network System Flow Improvements	6,000	30,000	*	Ongoing	Ongoing
North Coyote Valley Water System	168,000	168,000	8,083,000	2nd Qtr. 2001	3rd Qtr. 2004
North San José Water Well Evaluation and Rehabilitation	955,000	955,000	975,000	3rd Qtr. 2014	2nd Qtr. 2016
North San José Well #5 Development and Construction	60,000	1,560,000	1,560,000	2nd Qtr. 2016	2nd Qtr. 2017
Orinda Drive Main Replacement		1,260,000	1,260,000	3rd Qtr. 2018	2nd Qtr. 2020
Preliminary Engineering	125,000	675,000	*	Ongoing	Ongoing
Public Art	133,000	181,000	*	Ongoing	Ongoing
Public Works GIS Support	230,000	490,000	*	Ongoing	Ongoing
Repayment of Commercial Paper	830,000	4,150,000	4,150,000	3rd Qtr. 2015	2nd Qtr. 2020
Safety and Security Improvements	400,000	700,000	1,100,000	1st Qtr. 2015	2nd Qtr. 2019
Service Installations	200,000	1,000,000	*	Ongoing	Ongoing
System Growth Related Projects Reserve	1,600,000	1,600,000	1,600,000	N/A	N/A
System Maintenance/Repairs	660,000	3,500,000	*	Ongoing	Ongoing

Capital Program Summary by City Service Area

Environmental and Utility Services

	2015-2016 Budget	2016-2020 CIP Budget	Total Budget (All Years)	Start Date	End Date
Water Utility System (Cont'd.)					
System Rehabilitation/Replacement Reserve	2,447,000	3,646,000	3,646,000	N/A	N/A
Transfer to the City Hall Debt Service Fund	9,000	51,000	*	Ongoing	Ongoing
Transfer to the General Fund - Human Resources/Payroll/ Budget Systems Upgrade	4,000	4,000	5,000	N/A	N/A
Water Management System Enhancements	67,000	67,000	200,000	3rd Qtr. 2012	2nd Qtr. 2016
Water Valve Rehabilitation 2014	100,000	100,000	500,000	4th Qtr. 2013	2nd Qtr. 2016
Total: Construction/Non-Construction	14,380,000	34,501,000			
Ending Fund Balance	2,824,779	1,291,779 **			
Total: Water Utility System	17,204,779	35,792,779 **			
CSA Total: Construction/Non-Construction	334,170,000	1,350,841,000 **			
Ending Fund Balance	26,004,070	50,619,070 **			
CSA Total:	360,174,070	1,401,460,070 **			

* Total Budget information is not provided due to the ongoing nature of this project.

**The 2015-2016 through 2018-2019 Ending Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.