

Water Department Capital Improvement Projects

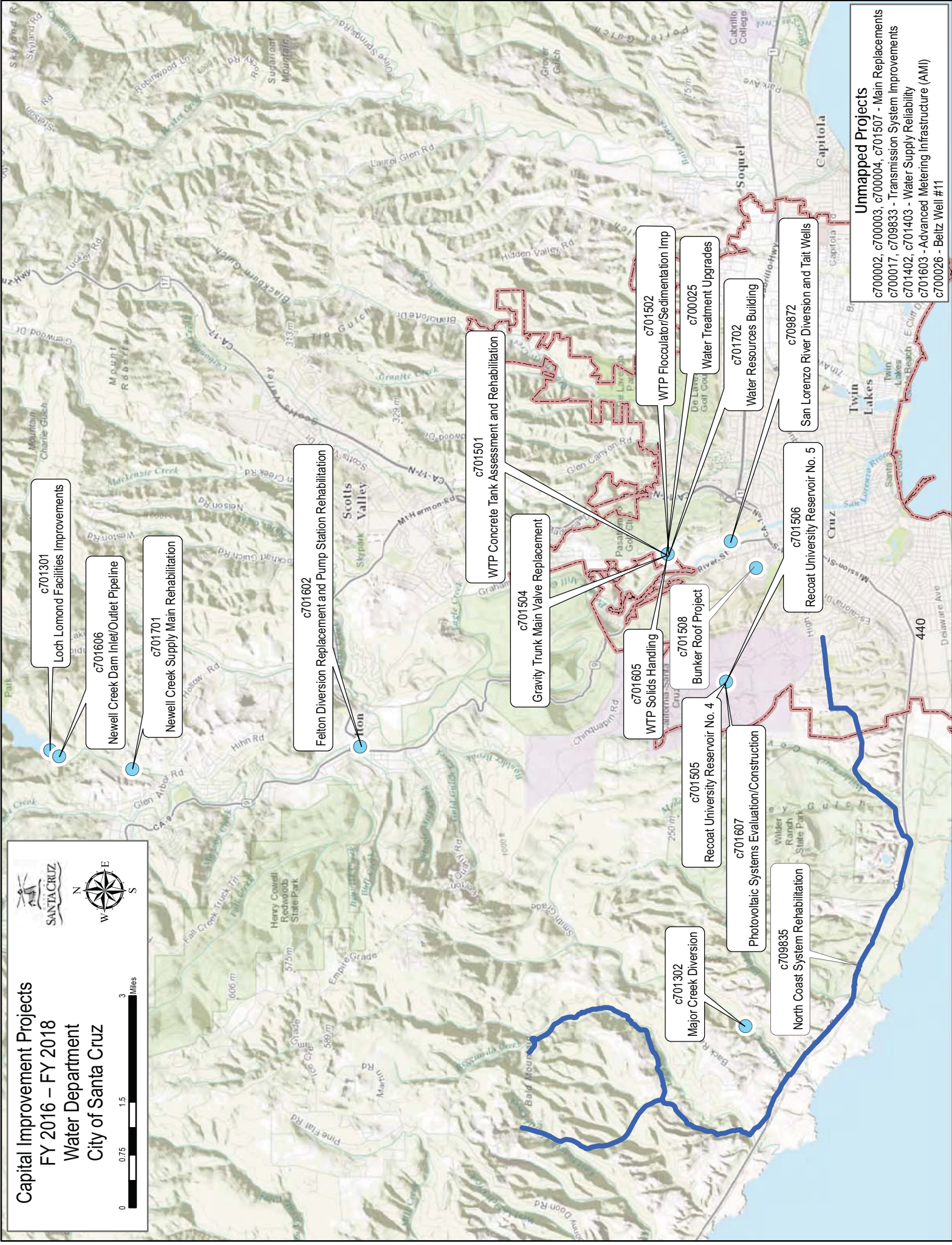


Bay Street Reservoir



Beltz Well 12

**Capital Improvement Projects
FY 2016 – FY 2018
Water Department
City of Santa Cruz**



c701301
Loch Lomond Facilities Improvements

c701606
Newell Creek Dam Inlet/Outlet Pipeline

c701701
Newell Creek Supply Main Rehabilitation

c701602
Felton Diversion Replacement and Pump Station Rehabilitation

c701504
Gravity Trunk Main Valve Replacement

c701501
WTP Concrete Tank Assessment and Rehabilitation

c701605
WTP Solids Handling

c701508
Bunker Roof Project

c701505
Recoat University Reservoir No. 4

c701607
Photovoltaic Systems Evaluation/Construction

c701302
Major Creek Diversion

c709835
North Coast System Rehabilitation

c701502
WTP Flocculator/Sedimentation Imp

c700025
Water Treatment Upgrades

c701702
Water Resources Building

c709872
San Lorenzo River Diversion and Tait Wells

c701506
Recoat University Reservoir No. 5

Unmapped Projects
 c700002, c700003, c700004, c701507 - Main Replacements
 c700017, c709833 - Transmission System Improvements
 c701402, c701403 - Water Supply Reliability
 c701603 - Advanced Metering Infrastructure (AMI)
 c700026 - Beltz Well #11

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Water (NEW)

711- Water & Water System
 Development Enterprise Fund

Advanced Metering infrastructure (AMI)

Project Description:

Evaluate the use of AMI as replacement to the current AMR metering (Automatic Meter Reading). AMI would allow two-way communication; benefits include early leak detection, customer conservation affect, and workflow management. Evaluation and vendor recommendation in FY2016.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701603							Account # 711-70-91-7153-57302
Project Cost Estimate:	-	-	-	50,000	4,000,000	4,000,000	8,050,000
Net Project Cost Estimates:	-	-	-	50,000	4,000,000	4,000,000	8,050,000

Beltz Well #11

Project Description:

This project would convert an existing monitoring well located at the site of Beltz 7 monitoring well and Beltz 10 production well. Beltz 11 would pump from the Santa Margarita. Project includes feasibility study, pump test, CEQA and construction efforts.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c700026							Account # 711-70-91-7153-57302
Project Cost Estimate:	-	-	-	-	70,000	300,000	370,000
Net Project Cost Estimates:	-	-	-	-	70,000	300,000	370,000

Felton Diversion Replacement and Pump Station Rehabilitation

Project Description:

This project consists of evaluation of the existing dam and pump station with recommendations to rehabilitate or replace existing facilities. Alternate diversions may be considered, such as horizontal collector wells or other subsurface intake(s). Additional funding for construction in FY2019.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701602							Account # 711-70-91-7153-57302
Project Cost Estimate:	-	-	-	300,000	-	-	300,000
Net Project Cost Estimates:	-	-	-	300,000	-	-	300,000

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Water (NEW)

711- Water & Water System
 Development Enterprise Fund

Majors Creek Diversion

Project Description:

Majors Creek Diversion is nearly 100 years old. This project will evaluate the condition of the structure, make recommendations to replace or repair, and complete the construction. Evaluation of facility to occur in FY2017 with scheduling of rehabilitation TBD.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701302							Account # 711-70-91-7153-57302
Project Cost Estimate:	-	-	-	-	-	300,000	300,000
Net Project Cost Estimates:	-	-	-	-	-	300,000	300,000

Newell Creek Dam Inlet/Outlet Pipeline

Project Description:

The Newell Creek Dam was installed in the 1960's. A pipeline runs through the base of the dam to deliver water to the reservoir from Felton Diversion and from the reservoir to the Graham Hill Water Treatment Plant. The pipeline rehabilitation includes inspection and valve replacement.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701606							Account # 711-70-91-7153-57302
Project Cost Estimate:	-	-	-	125,000	1,500,000	-	1,625,000
Net Project Cost Estimates:	-	-	-	125,000	1,500,000	-	1,625,000

Photovoltaic Systems Evaluations/Construction

Project Description:

Ongoing project to evaluate, design and construct PV systems on water department facilities. Current project is at the Bay Street Tank Site.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701607							Account # 711-70-91-7153-57302
Project Cost Estimate:	-	-	-	40,000	500,000	-	540,000
Net Project Cost Estimates:	-	-	-	40,000	500,000	-	540,000

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Water (NEW)

**711- Water & Water System
 Development Enterprise Fund**

Water Treatment Plant Solids Handling

Project Description:

Solids produced at the Graham Hill Water Treatment Plant currently are disposed of in the City's sewer system. Treatment and disposal of these solids needs to be evaluated prior to any modifications. Project evaluation will occur with the existing Water Treatment Plant Concrete Tank Assessment and Rehabilitation project (c701501).

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701605							Account # 711-70-91-7153-57302
Project Cost Estimate:	-	-	-	250,000	500,000	-	750,000
Net Project Cost Estimates:	-	-	-	250,000	500,000	-	750,000

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

New Capital Projects for Water & Water System Development Enterprise Fund (711 & 715) Totals

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Total Project Cost Estimate:	-	-	-	765,000	6,570,000	4,600,000	11,935,000
Total Project Funding Estimate:	-	-	-	-	-	-	-
Total Net Project Cost Estimate:	-	-	-	765,000	6,570,000	4,600,000	11,935,000

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Water (EXISTING)

711- Water & Water System
 Development Enterprise Fund

Bay Street Reservoir Reconstruction

Project Description:

The Bay Street Reservoir has reached the end of its useful life and will be replaced with two 6 MG tanks. Construction of Tank 1 was completed in FY 2014. Demolition of the temporary tanks and Tank 2 construction commenced in FY 2014. A portion of the project is funded by System Development Charges (20% SDC-Fund 715).

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Account # 711-70-91-7153-57302							
Project # c700313							
Project Cost Estimate:	15,611,839	5,468,836	5,468,836	-	-	-	-
Net Project Cost Estimates:	15,611,839	5,468,836	5,468,836	-	-	-	-
Account # 715-70-91-7153-57302							
Project # c700027							
Project Cost Estimate:	3,979,771	1,313,725	1,313,725	-	-	-	-
Net Project Cost Estimates:	3,979,771	1,313,725	1,313,725	-	-	-	-

Beltz Well #4 Replacement with #12

Project Description:

Replace Beltz Well #4 with a new inland well to redistribute pumping away from the coast. Land was acquired in 2012, drilling of the well took place in FY 2013, engineering and construction of the wellhead in FY 2014. Installation of the treatment system began in FY 2014 and will be complete in early FY 2015.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Account # 711-70-91-7153-57302							
Project # c701003							
Project Cost Estimate:	3,368,134	1,755,427	1,755,427	-	-	-	-
Net Project Cost Estimates:	3,368,134	1,755,427	1,755,427	-	-	-	-

Bunker Roof Project

Project Description:

The bunker was designed for more suitable storage for materials (sand, base rock, cold mix and spoils) at the City's Corporation yard that are used in repairing and maintaining the water distribution system. The roof will keep these materials dry in the winter months as well as keeping storm water runoff from entering the drainage system. Solar panels may be incorporated into the roof structure.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Account # 711-70-97-7151-57302							
Project # c701508							
Project Cost Estimate:	-	200,000	200,000	150,000	-	-	150,000
Net Project Cost Estimates:	-	200,000	200,000	150,000	-	-	150,000

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Water (EXISTING)

711- Water & Water System
 Development Enterprise Fund

Gravity Trunk Main Valve Replacement

Project Description:

Replace failed isolation valves on and surrounding the 36 inch trunk transmission main leaving the Graham Hill Water Treatment Plant and make improvements needed to inspect the condition of the pipeline. Project also includes potential inspection of the transmission main.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701504							Account # 711-70-91-7151-57302
Project Cost Estimate:	-	150,000	150,000	200,000	-	-	200,000
Net Project Cost Estimates:	-	150,000	150,000	200,000	-	-	200,000

Loch Lomond Facilities Improvements

Project Description:

Complete facilities assessment and improvement program at Loch Lomond. A Use study was completed in FY 2013. Further analysis was scheduled for FY 2015 but put on hold due to the drought and closure of the lake during the 2014 season.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701301							Account # 711-70-91-7153-57302
Project Cost Estimate:	4,676	180,324	180,324	100,000	-	-	100,000
Net Project Cost Estimates:	4,676	180,324	180,324	100,000	-	-	100,000

Newell Creek Pipeline Rehabilitation

Project Description:

Conduct a condition assessment and program level environmental review followed by full or partial replacement of the pipeline between the base of Loch Lomond Reservoir and the Graham Hill Water Treatment Plant. (Project title modified from Newell Creek Supply Main Rehabilitation.)

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701701							Account # 711-70-91-7153-57302
Project Cost Estimate:	-	-	-	-	700,000	-	700,000
Net Project Cost Estimates:	-	-	-	-	700,000	-	700,000

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Water (EXISTING)

711- Water & Water System
 Development Enterprise Fund

North Coast System Rehabilitation

Project Description:

Springs and streams along the coast north of the City limits supply approximately 25% of the City's raw water. Some of the facilities related to these water supplies were constructed as early as 1889 and are in need of rehabilitation. The program consists of multiple projects over the next 15 to 20 years. Engineering, environmental review, and permitting for the coast segment (Phase 3) began in FY 2013 and continues through FY 2015. Construction scheduled to begin in FY 2016.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c709835							Account # 711-70-91-7153-57302
Project Cost Estimate:	4,841,883	1,267,876	1,267,876	4,235,000	4,000,000	-	8,235,000
Net Project Cost Estimates:	4,841,883	1,267,876	1,267,876	4,235,000	4,000,000	-	8,235,000

Recoat University Reservoir No. 4

Project Description:

Perform engineering analysis and condition assessment of the aging University 4 tank. Establish scope of work for recoating/rehabilitation project. Acquire construction easements from UCSC and perform environmental analysis to install temporary tank for use during construction. Create plans and specifications for recoating/rehabilitation project.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701505							Account # 711-70-91-7153-57302
Project Cost Estimate:	-	95,000	95,000	100,000	75,000	1,300,000	1,475,000
Net Project Cost Estimates:	-	95,000	95,000	100,000	75,000	1,300,000	1,475,000

Recoat University Reservoir No. 5

Project Description:

Perform engineering analysis and condition assessment of the aging University 5 tank. Establish scope of work for recoating/rehabilitation project. Create plans and specifications for recoating/rehabilitation project. Install temporary tank and variable speed pumps for use during construction. Construct recoating/rehabilitation project.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701506							Account # 711-70-91-7153-57302
Project Cost Estimate:	-	110,000	110,000	75,000	1,750,000	-	1,825,000
Net Project Cost Estimates:	-	110,000	110,000	75,000	1,750,000	-	1,825,000

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Water (EXISTING)

711- Water & Water System
 Development Enterprise Fund

San Lorenzo River Diversion and Tait Wells

Project Description:

Conduct a condition assessment of the existing diversion and wells including consideration of sanding issues, potential dam replacement, potential use of infiltration gallery, and relocation of existing wells. Condition assessment followed by recommended intake modifications and/or new wells. (Project title modified from San Lorenzo Tait Intake.)

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c709872							Account # 711-70-91-7153-57302
Project Cost Estimate:	171,581	253,434	253,434	300,000	1,600,000	-	1,900,000
Net Project Cost Estimates:	171,581	253,434	253,434	300,000	1,600,000	-	1,900,000

Water Main Replacements - Distribution

Project Description:

Recurring program of deteriorated mains, as identified and prioritized by the Water Department's Distribution Section, which performs the work. Projects are typically based on leak history, but also address water quality and fire flow issues.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701507							Account # 711-70-97-7151-57302
Project Cost Estimate:	-	300,000	300,000	325,000	325,000	325,000	975,000
Net Project Cost Estimates:	-	300,000	300,000	325,000	325,000	325,000	975,000

Water Main Replacements -City Engineering

Project Description:

Recurring program of deteriorated or undersized mains as identified and prioritized by the Water Department's Engineering Division. Priorities are based on the need to maintain water system reliability, deliver adequate fire flows, improve circulation and water quality, and reduce maintenance costs. This project focuses on pipes less than 10" in diameter.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c700002							Account # 711-70-91-7151-57302
Project Cost Estimate:	2,295,647	742,481	742,481	1,000,000	1,000,000	1,000,000	3,000,000
Net Project Cost Estimates:	2,295,647	742,481	742,481	1,000,000	1,000,000	1,000,000	3,000,000

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Water (EXISTING)

715- Water & Water System
 Development Enterprise Fund

Water Main Replacements -Customer Initiated

Project Description:

Recurring program similar to the City-Initiated Main Replacement Project; however, these projects are initiated on an as-needed basis to accommodate customer-requested service connections to undersized or inadequate mains. Funds, to the extent of the appropriation, are disbursed to customers on a first-come, first-served basis. This project is funded by System Development Charges (100% SDC – Fund 715).

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c700004							Account # 715-70-91-7151-57302
Project Cost Estimate:	301,259	50,000	50,000	50,000	50,000	50,000	150,000
Net Project Cost Estimates:	301,259	50,000	50,000	50,000	50,000	50,000	150,000

Water Main Replacements -Outside Agency

Project Description:

Water main, service line, valve, or water meter relocation necessitated by County or other Agency road improvement and/or storm drain improvement projects. Available project balance will be used for any projects in FY 2015, rolled over to FY 2016, plus new appropriations for FY 2016 due to several known projects.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c700003							Account # 711-70-91-7151-57302
Project Cost Estimate:	757,173	374,620	374,620	200,000	200,000	200,000	600,000
Net Project Cost Estimates:	757,173	374,620	374,620	200,000	200,000	200,000	600,000

Water Resources Building

Project Description:

The Watershed Resources Division is currently housed in temporary trailers. The needs assessment portion of the project has been completed; FY 2016 will focus on site selection and design; FY 2017 will be construction.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701702							Account # 711-70-91-7153-57302
Project Cost Estimate:	-	-	-	100,000	1,000,000	-	1,100,000
Net Project Cost Estimates:	-	-	-	100,000	1,000,000	-	1,100,000

City of Santa Cruz
Adopted Capital Improvement Program Budget (by department)
Fiscal Years 2016 - 2018

Water (EXISTING)

711- Water & Water System
Development Enterprise Fund

Water Supply Project

Project Description:

CEQA process continued in FY 2014. A portion of the project is funded by System Development Charges (30% SDC-Fund 715). Remaining project balance will be transferred as needed to the Water Supply Reliability project (c701402, c701403)

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Account # 711-70-91-7153-57302							
Project # c700305							
Project Cost Estimate:	9,969,168	173,815	173,815	-	700,000	1,400,000	2,100,000
Project Funding Estimates:							
Other agency contributions	4,915,092	881,077	-	-	-	-	-
Net Project Cost Estimates:	5,054,076	(707,262)	173,815	-	700,000	1,400,000	2,100,000
Account # 715-70-91-7153-57302							
Project # c700016							
Project Cost Estimate:	3,548,866	583,920	583,920	-	300,000	600,000	900,000
Project Funding Estimates:							
Other agency contributions	2,106,467	527,165	-	-	-	-	-
Net Project Cost Estimates:	1,442,399	56,755	583,920	-	300,000	600,000	900,000

Water Supply Reliability

Project Description:

Support the Water Supply Advisory Committee to explore the City of Santa Cruz's water situation and potential supply options. Will include exploration of elements that impact supply such as the Habitat Conservation Plan process, elements affecting demand such as the conservation master plan, and potential water supply alternatives such as water exchange and beneficial uses of recycled water, and funding of Water Supply Advisory Committee facilitation. Potential for funding contributions from other agencies for exploration of regional solutions and/or grant funding. Remaining project balance from the Water Supply Project (c700305, c700016) will be transferred as needed to these projects.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Account # 711-70-91-7153-57302							
Project # c701402							
Project Cost Estimate:	85,252	1,385,448	1,385,448	350,000	-	-	350,000
Net Project Cost Estimates:	85,252	1,385,448	1,385,448	350,000	-	-	350,000
Account # 715-70-91-7153-57302							
Project # c701403							
Project Cost Estimate:	36,537	593,763	593,763	150,000	-	-	150,000
Net Project Cost Estimates:	36,537	593,763	593,763	150,000	-	-	150,000

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Water (EXISTING)

**711- Water & Water System
 Development Enterprise Fund**

Water Transmission System Improvements

Project Description:

Recurring program of water main replacement for pipes 10" and larger (the transmission grid) to extend its useful life and improve performance. Portion of the project funded by System Development Charges (20% SDC - Fund 715)

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Account # 711-70-91-7151-57302							
Project # c709833							
Project Cost Estimate:	1,771,927	513,510	513,510	400,000	400,000	400,000	1,200,000
Net Project Cost Estimates:	1,771,927	513,510	513,510	400,000	400,000	400,000	1,200,000
Account # 715-70-91-7151-57302							
Project # c700017							
Project Cost Estimate:	393,530	100,000	100,000	100,000	100,000	100,000	300,000
Net Project Cost Estimates:	393,530	100,000	100,000	100,000	100,000	100,000	300,000

Water Treatment Plant Concrete Tank Assessment and Rehabilitation

Project Description:

As part of an overall plan to ensure compliance with changing water quality regulations, improvements are needed at the Graham Hill Water Treatment Plant. This project will evaluate the condition of four concrete tanks located at the site (as well as an of-site concrete tank), make improvement recommendation, and construction. Project title modified from WTP Filter Water Tank. Includes \$145,000 endowment for MHJB HCP mitigation.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Account # 711-70-91-7152-57302							
Project # c701501							
Project Cost Estimate:	-	258,320	258,320	250,000	2,000,000	2,000,000	4,250,000
Net Project Cost Estimates:	-	258,320	258,320	250,000	2,000,000	2,000,000	4,250,000

Water Treatment Plant Filter Rehabilitation and Upgrades

Project Description:

As part of an overall plan to ensure compliance with changing water quality regulations, improvements are needed at the Graham Hill Water Treatment Plant. This project will rehabilitate and improve the filters.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Account # 711-70-91-7152-57302							
Project # c701303							
Project Cost Estimate:	629,006	4,788,994	4,788,994	-	-	-	-
Net Project Cost Estimates:	629,006	4,788,994	4,788,994	-	-	-	-

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Water (EXISTING)

711- Water & Water System
 Development Enterprise Fund

Water Treatment Plant Flocculator/Sedimentation Improvements

Project Description:

As part of an overall plan to ensure compliance with changing water quality regulations, improvements are needed at the Graham Hill Water Treatment Plant. This project will replace aging paddle wheel flocculators and improve sedimentation processes. Project includes seismic evaluation as well as consideration for covering all basins (project c701601).

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701502							Account # 711-70-91-7152-57302
Project Cost Estimate:	-	-	-	60,000	600,000	6,000,000	6,660,000
Net Project Cost Estimates:	-	-	-	60,000	600,000	6,000,000	6,660,000

Water Treatment Plant Hypochlorite Generation

Project Description:

As part of an overall plan to ensure compliance with changing water quality regulations, improvements are needed at the Graham Hill Water Treatment Plant. This project will consider the replacement of the existing chlorine gas system with a new hypochlorite generation system.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701401							Account # 711-70-91-7152-57302
Project Cost Estimate:	-	75,000	75,000	-	-	-	-
Net Project Cost Estimates:	-	75,000	75,000	-	-	-	-

Water Treatment Plant UV System - Pasatiempo

Project Description:

As part of an overall plan to ensure compliance with changing water quality regulations, improvements are needed at the Graham Hill Water Treatment Plant. This project will consider upgrading the Pasatiempo Pump system with ultra violet disinfection. This project would need to be constructed in conjunction with improvements to the filtered water tank as part of the WTP Concrete Tank Project.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701503							Account # 711-70-91-7152-57302
Project Cost Estimate:	-	40,000	40,000	-	-	-	-
Net Project Cost Estimates:	-	40,000	40,000	-	-	-	-

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Water (EXISTING)

**711- Water & Water System
 Development Enterprise Fund**

Water Treatment Upgrades

Project Description:

Upgrades to the Graham Hill Water Treatment Plant are necessary to meet new and planned regulatory requirements, and increase overall system reliability. FY 2016 will focus on evaluation of chemical feed and bulk storage area and study new oxidant.

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c700025							Account # 711-70-91-7152-57302
Project Cost Estimate:	313,986	26,561	26,561	200,000	-	-	200,000
Net Project Cost Estimates:	313,986	26,561	26,561	200,000	-	-	200,000

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Existing Capital Projects for Water & Water System Development Enterprise Fund (711 & 715) Totals

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Total Project Cost Estimate:	48,080,235	20,801,054	20,801,054	8,345,000	14,800,000	13,375,000	36,520,000
Total Project Funding Estimate:	7,021,559	1,408,242	-	-	-	-	-
Total Net Project Cost Estimate:	41,058,676	19,392,812	20,801,054	8,345,000	14,800,000	13,375,000	36,520,000

Water Department Capital Improvement Projects FY 2015 Completed Projects



Bay Street Reservoir



Beltz Well 12

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Water (FY 2015 COMPLETED PROJECTS)

711- Water & Water System
 Development Enterprise Fund

Beltz Treatment Plant Reclaim Tank Replacement

Project Description:

Constructed a reclaim water tank at the Beltz Water Treatment Plant to replace a 40+ year old undersized red wood tank.
 (complete 14/15)

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Project # c701101							
							Account # 711-70-91-7153-57302
Project Cost Estimate:	206,789	4,702	4,702	-	-	-	-
Net Project Cost Estimates:	206,789	4,702	4,702	-	-	-	-

City of Santa Cruz
 Adopted Capital Improvement Program Budget (by department)
 Fiscal Years 2016 - 2018

Projects Completed in FY 2015 for Water & Water System Development Enterprise Fund (711 & 715) Totals

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Total Project Cost Estimate:	324,381	4,702	4,702	-	-	-	-
Total Project Funding Estimate:	-	-	-	-	-	-	-
Total Net Project Cost Estimate:	324,381	4,702	4,702	-	-	-	-

Water Totals for Water & Water System Development Enterprise Fund (711 & 715)

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Total Project Cost Estimate:	48,404,616	20,805,756	20,805,756	9,110,000	21,370,000	17,975,000	48,455,000
Total Project Funding Estimate:	7,021,559	1,408,242	-	-	-	-	-
Total Net Project Cost Estimate:	41,383,057	19,397,514	20,805,756	9,110,000	21,370,000	17,975,000	48,455,000

Water Totals

	Prior Year Totals	Fiscal Year 2015		FY 2016 Adopted	FY 2017 Estimate	FY 2018 Estimate	Total 2016 - 2018
		Budget	Estimated Actuals				
Total Project Cost Estimate:	48,404,616	20,805,756	20,805,756	9,110,000	21,370,000	17,975,000	48,455,000
Total Project Funding Estimate:	7,021,559	1,408,242	-	-	-	-	-
Total Net Project Cost Estimate:	41,383,057	19,397,514	20,805,756	9,110,000	21,370,000	17,975,000	48,455,000

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