

Projects by Category	Project #	Description	Estimated Year-End Exp or Carry over		Budget new appropriations															Funding Totals, FY16-30	Relevant Consolidated Alternatives
			FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030		
WATER SOURCES																					
Coast Pump Station Rehab	c70xxxx	Replace/Rehab Motor Control Center								\$ 300,000		\$ 1,200,000								\$ 3,500,000	
Felton Diversion Evaluation & Updgrade of Dam and Pump Station	c701602	Evaluate existing dam and pumps and rehabilitate as needed. Includes evaluation of subsurface intake(s).			\$ 300,000				\$ 1,200,000											\$ 1,500,000	
Laguna Dam	c7016xx	Evaluate condition of dam and make recommended modifications. Project will follow completion of anadromous HCP.					\$ -	\$ 300,000				\$ 1,500,000								\$ 1,800,000	
Loch Lomond Slide Gates	c700309	Evaluate condition of and repair/replace the five existing slide gates located on the upstream face of the Newell Creek Dam.																		\$ -	
Majors Creek Diversion	c70xxxx	Evaluate condition of dam and make recommended modifications.					\$ 300,000	\$ 300,000				\$ 1,500,000								\$ 2,100,000	
San Lorenzo River Diversion and Tait Wells	c709872	Evaluate condition of dam, intake and wells; construct new wells, and potentially modify dam/intake.	\$ 16,566	\$ 253,434	\$ 300,000	\$ 1,600,000														\$ 1,900,000	
Water Supply Project	c700305/ c700016	Following the adoption of the Integrated Water Plan, the investigative phase of the desalination project spanned 8 years and funded the SWRO pilot project, intake studies, preliminary design, DEIR and various other studies.	\$ 376,005	\$ 1,658,735		\$ 1,000,000	\$ 2,000,000	\$ 2,000,000	\$ 20,000,000	\$ 20,000,000										\$ 45,000,000	
Water Supply Reliability	c701402/ c701403	Support the Water Supply Advisory Committee to explore the City of Santa Cruz's water situation and potential supply options.	\$ 121,789	\$ 1,078,211	\$ 500,000															\$ 500,000	
Subtotal Water Sources			\$ 514,360	\$ 2,990,380	\$ 1,100,000	\$ 2,600,000	\$ 2,300,000	\$ 3,800,000	\$ 20,300,000	\$ 23,000,000	\$ 1,200,000	\$ -	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 56,300,000	
TREATMENT OF WATER																					
Beltz Monitoring Wells	c701002	Construct inland monitoring well network to monitor groundwater elevations and water quality in the inland portion of the Purisma.	\$ 80,900																	\$ -	
Beltz 11	c700026	Convert existing monitoring well at site of Beltz 7 and 10 to a production well.				\$ 70,000	\$ 300,000													\$ 370,000	
Beltz 12	c701003	Add groundwater well and wellhead treatment inland to distribute pumping away from the coast.	\$ 1,693,864	\$ 1,755,427																\$ -	
Beltz Treatment Plant Reclaim Tank Replacement	c701101	Replace existing tank with steel bolt-up tank	\$ 179,763																	\$ -	
WTP Concrete Tank Assessment & Rehabilitation	c701501	Evaluate concrete tanks, develop repair/rehab plan, implement plan. Includes \$145,000 endowment for MHJB HCP mitigation.		\$ 258,320	\$ 250,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000												\$ 6,250,000	CA-17 Expanded Treatment
WTP Solids Handling	c70xxxx	Evaluate treatment and disposal of solids produced at the GHWTP. Evaluation will occur with project c701501.			\$ 250,000	\$ 500,000														\$ 750,000	CA-17 Expanded Treatment
WTP Filter Rehabilitation and Upgrades	c701303	First project to the current phasing of improvements at GHWTP. See project "Water Treatment Upgrades."	\$ 461,197	\$ 4,723,994																\$ -	CA-17 Expanded Treatment
WTP Flocculator/Sedimentation Improvements	c701502	Replace aging paddle wheel flocculators and improve sedimentation processes. Project c701601 combined with this project.			\$ 60,000	\$ 600,000	\$ 6,000,000													\$ 6,660,000	CA-17 Expanded Treatment
WTP Hypochlorite Generation	c701401	Consider replacing existing gas chlorine system to sodium hypochlorite system		\$ 75,000																\$ -	CA-17 Expanded Treatment
WTP UV System - Pasatiempo	c701503	Consider upgrading the Pasatiempo pump station with ultra violet disinfection.		\$ 40,000																\$ -	CA-17 Expanded Treatment
Water Treatment Upgrades	c700014/ c700025	Upgrades to Granam Hill water treatment Plant to enhance water quality, meet new and planned regulations, increase reliability. (Power Mgmt and Filter Rehab are offshoots of this project.)		\$ 91,561	\$ 200,000															\$ 200,000	CA-17 Expanded Treatment
Subtotal Water Treatment			\$ 2,415,724	\$ 6,944,302	\$ 760,000	\$ 3,170,000	\$ 8,300,000	\$ 2,000,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 14,230,000	
DISTRIBUTION OF WATER																					
Water Main Replacements - City Engineering	c700002	Funds are allocated in the CIP each year to replace underground water mains < 10" in diameter.	\$ 726,647	\$ 742,481	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 15,000,000	
Water Main Replacements - Outside Agency	c700003	Funds are allocated in the CIP each year to replace underground water works to coincide with projects initiated by other agencies.	\$ 11,261	\$ 374,620	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 3,000,000	
Water Main Replacements - Customer Initiated	c700004	Projects initiated on an as-needed basis to accommodate customer-requested connections to undersized or inadequate mains.		\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 750,000	
Water Main Replacements - Distribution	c701507	Funds are allocated in the CIP each year to replace underground water mains (transmission, distribution and service lines) by City forces.		\$ 300,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 4,875,000	

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Gravity Trunk Main Valve Replacement	c701504	Replace isolation valves on trunk main leaving GHWTP		\$ 150,000	\$ 200,000															\$ 200,000		
Newell Creek Pipeline Rehabilitation	c701701	Full/partial replacement of the pipeline btw the base of Loch Lomond Reservoir and the GHWTP.				\$ 700,000			\$ 4,000,000	\$ 4,000,000	\$4,000,000									\$ 12,700,000	All enhanced diversion CAs	
Newell Creek Dam Inlet/Outlet Pipeline	c70xxxx	Inspect and develop a rehabilitation plan for the inlet/outlet pipe within Newell Creek Dam.			\$ 125,000	\$1,500,000			\$50,000,000											\$ 51,625,000	All enhanced diversion CAs; CA-12 Water Reuse for indirect potable reuse	
North Coast System Rehab	c709835	Replace approximately 16miles of raw water pipeline. Pipelines deliver water from the North Coast sources to the GHWTP and date back to 1889.	\$ 242,548	\$1,267,876	\$ 4,235,000	\$4,000,000			\$ 1,500,000	\$ 4,000,000	\$4,000,000		\$1,500,000		\$4,000,000	\$4,000,000			\$1,500,000	\$ 28,735,000	CA-13 Water Reuse for Non-potable (this project extends several more years for construction, with additional \$8M.	
Water Transmission System Improvements (10" and larger)	c709833/ c700017	Funds are allocated in the CIP each year to replace underground water mains (transmission, distribution and service lines).		613,510	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000						\$ 5,000,000		
Subtotal Distribution of Water			980,456	3,498,486	6,635,000	8,275,000	2,075,000	57,575,000	2,075,000	10,075,000	6,075,000	6,075,000	3,575,000	2,075,000	5,575,000	5,575,000	1,575,000	3,075,000	1,575,000	#####		
FACILITIES																						
Advance Metering Infrastructure (AMI)	c70xxxx	Evaluate use of AMI and install as recommended.			50,000	4,000,000	4,000,000													8,050,000		
Bunker Roof Project	c701508	Install roof over existing material storage area at the City's Corporation Yard. Evaluate install of solar panels.		200,000	150,000															150,000		
Hydroturbines	c700901	Installation of a hydro turbine at the Newell Creek Dam																		0		
Loch Lomond Facilities Improvements	c709837/ c701301	Conduct assessment of current and potential future uses, develop master plan.	4,676	180,324	100,000															100,000		
Photovoltaic Systems Evaluation/Construction	c70xxxx	Ongoing project to evaluate, design and construct PV systems on water department facilities. Current project is at the Bay Street Tank Site.			40,000	500,000														540,000		
Water Resources Building	c701702	Design and construct a new facility			100,000	1,000,000														1,100,000		
Subtotal Facilities			4,676	380,324	440,000	5,500,000	4,000,000	0	0	0	0	0	0	0	0	0	0	0	0	0	9,940,000	
STORAGE OF WATER																						
Bay Street Reservoir Reconstruction	c700313/ c700027	Replace the existing reservoir that has reached the end of its useful life (built ~1926), and to downsize to meet current water quality regulations.	4,855,428	6,782,561																0		
Recoat University Reservoir No. 4	c701505	Condition assessment and recoating/rehabilitation project		95,000	100,000	75,000	1,300,000													1,475,000		
Recoat University Reservoir No. 5	c701506	Condition assessment and recoating/rehabilitation project		110,000	75,000	1,750,000														1,825,000		
Subtotal Storage of Water			4,855,428	6,987,561	175,000	1,825,000	1,300,000	0	0	0	0	0	0	0	0	0	0	0	0	0	3,300,000	
Total Projects			8,770,643	20,801,054	9,110,000	21,370,000	17,975,000	63,375,000	22,375,000	33,075,000	7,275,000	6,075,000	3,575,000	4,075,000	5,575,000	5,575,000	1,575,000	3,075,000	1,575,000	205,655,000		
LEGEND																						
Evaluation Phase																						
Design Phase																						
Construction Phase																						