

Water department



Department Description

The mission of the Water Department is to ensure public health and safety by providing a clean, safe, and reliable supply of water. We strive to serve the community in a courteous, efficient, cost effective, and environmentally sustainable manner.

We are passionate about our work, and try to instill our values of integrity, innovation, objectivity, professionalism, teamwork, and transparency in everything we do. We collect water, treat and test it, move it, store it, distribute it, track how much is used, and bill our customers for their use. We're at the end of the phone when customers call with questions and we're the smiling faces they see when they visit the department. We educate our customers about the quality of their water, how to use less water and provide them the tools to do so. Our work includes the maintenance and operation of Loch Lomond Recreation area, as well as the protection of the Majors, Liddell, Newell Creek, Zayante, and Laguna watersheds. We are stewards of an important community asset, the water system and all it entails, as well as a range of natural resources and ecosystems that we and many species depend upon and that are important elements of a sustainable community. We take pride in meeting the diverse needs of the broad region we serve.





The Department is organized into operational and administrative sections. Operational sections include: Production, Water Quality Lab, Distribution, Water Resources and the Loch Lomond Recreation area. These sections are responsible for managing the watersheds; collecting, treating and testing untreated and treated water; and storing and distributing treated water to our customers. The administrative sections are comprised of: Finance and Administration, Engineering, Conservation, Customer Service and Community Relations. Staff in these sections provide leadership; plan and implement the Capital Improvement Program (CIP); develop and implement financial plans; read meters, bill customers and collect revenues; help our customers conserve water and support active community outreach and engagement efforts covering a range of department activities. In FY2017, the Meter Shop was transferred from the Distribution section to Customer Service to better coordinate services to customers.

Goals & Accomplishments

A significant focus in FY2017 was transitioning from a period of planning to implementation in several critical areas.

Rehabilitation & Replacement of Backbone Infrastructure

The department completed a number of significant infrastructure improvements projects:

-  Rehabilitation of six dual media filters at the Graham Hill Water Treatment Plant.
-  Construction of new Tait Wells 1B and 3B.
-  Replacement of 3,110 linear feet of water main.
-  Inspection of the Ocean Street Trunk Main which provided information to determine whether rehabilitation of this "main artery" water system is needed.

In addition, plans were finalized for the landscaping and completion of the Bay Street Reservoir, additional main replacement work, installation of solar at the Bay Street Reservoir, and the University Reservoir #5 replacement project.



Financial Planning

With a five-year rate structure and a Long Range Financial Plan approved by the City Council, the department was able to finalize its financial planning work. The first of several planned debt issuances was completed with the \$25 million California Infrastructure and Economic Development Bank (IBank) loan that covered capital expenditures for projects completed since April 2014. Finalizing this loan allowed for the reimbursement to the department's Operating Fund of over \$20 million for work already completed and financed from the Operating Fund, thus making resources available to begin the funding of reserves identified in the Long Range Financial Plan.

WSAC Recommendations

The department turned toward the implementation of the Water Supply Advisory Committee (WSAC) recommendations by initiating and making significant progress on the Aquifer Storage and Recovery Project and the recycled Water Facilities Planning Study. Staff continues to regularly report on the progress to the Water Commission at their monthly meetings, and held a joint meeting with the Water Commission and the City Council in March 2017 to review the WSAC's recommendations and provide a status report on implementation activities.



Strategic Planning & Organization Development

The department continued working on its strategic planning and organization development initiative focusing on strategy development and preparation for a strategy workshop in early June 2017; it will engage a large cross section of the department's workforce in reviewing and providing feedback on the proposed strategies. Additional areas of focus include skill development in a range of communication, process management, and problem solving and decision making tools.

Succession Planning & Workforce Development

During 2017, a key focus was in working to create a trainee program for key positions that have been difficult to fill in past recruitments. Examples include utility mechanical, electrical, instrumentation maintenance positions. During 2017, the Department worked with Human Resources to create a new Utility Maintenance Trainee position and organized a two year training program that combines training classes, training modules, and on-the-job training that will provide the trainee with the skills needed to effectively fill one of the Department's Utility Maintenance Technician and eventually be qualified for a Senior Mechanic or Senior Electrician role.

Throughout the year, the department worked toward improving its service delivery system through investments in infrastructure, providing excellent customer service, protecting natural resources, and providing a safe, high quality product. In addition to those already mentioned, the utility made substantial gains in a number of important areas as described below:

Drought to Deluge

After years of managing a historic drought, Santa Cruz received more than twice the normal amount of rainfall and was subjected to multiple severe storms during January and February of 2017. The storms, resulting landslides, and shifts of saturated soils, caused multiple breaks on key raw water transmission pipelines, which had a significant adverse effect on the department's ability to produce treated water; the storms also made the San Lorenzo River too turbid to treat. Record flows on the San Lorenzo River during the February 7th storm inundated the department's key Coast Pump Station facility, which effectively shut down all flows from the North Coast Sources, the San Lorenzo River, and the Tait Wells, to the Graham Hill Water Treatment Plant. Pump and electrical repairs at the Coast Pump Station were completed within three days, allowing the facility to return to service in record time. The department spent more than \$1 million in immediate emergency repair of facilities damaged by the multiple storms of the winter of 2017 with additional mitigation repairs under review.



Watershed Management

Protecting and managing our watersheds is an important responsibility of the department. Water rights and regulatory compliance issues and managing and protecting the diverse ecosystem, as well as providing recreation services and managing Loch Lomand Reservoir are all part of this role. Some achievements in these areas are below.



Continued work toward the completion of three Habitat Conservation Plans (HCP) for threatened and endangered species that are or could be affected by the operation of the water system, including reaching an interim instream flow agreement for the protection and restoration of coho salmon and steelhead trout with the California Department of Fish and Wildlife.

Identified resolution alternative for long-standing Laguna watershed lands encroachment issue.

Initiated Watershed Sanitary Survey update in partnership with the Engineering section.

Completed ADA improvements to Loch Lomond recreation area including a compliant restroom, parking spots, walkways, a picnic area, and a deck overlooking the reservoir.

Provided support to operational regulatory compliance by implementing the Drinking Water National Pollutant Discharge Elimination System (NPDES) permit tracking and reporting system.

Completed updates to the Environmental Compliance Standard Operating Procedure manual, map application development, and training for operating staff.

The utility's largest raw water source is the San Lorenzo River (SLR) and preserving and managing this resource was the focus of many accomplishments in FY2017. The Department partnered with the City Manager's Office and Public Works to align City-related SLR issues and projects. The department supported a permanent solution to the SLR lagoon water level control dilemma by helping to secure grant funding from the Wildlife Conservation Board to install large woody debris and navigate water rights issues on behalf of the project. Lastly, we partnered with other stakeholders on SLR 2025 to develop and fund restoration projects on the river.



The Water Department's core is goal to ensure public health by providing clean and safe water to our customers. Our water quality and treatment functions ensure that water delivered meets all state and federal drinking water regulations. Some key achievements of these groups in FY 2017 are included below.

Completed all required drinking water monitoring and compliance sampling, analyses, and reporting for regulated contaminants, maintaining the department's strong performance for providing a water supply that is consistently in compliance with or of better quality than required by state and federal regulation.

Added Dissolved Organic Carbon and UV254 analyses to the list of approved analytical methods as recognized by the State of Water Resources Control Board's Environmental Laboratory Accreditation Program.

Expanded the profile of organics and microbial organisms in source waters to characterize winter water flows for the planning of future treatment needs.

Supported the Department's ongoing outreach to customers concerned about Lead and Copper in their home.

Performed the required testing as directed by the Aquatic Pesticide Application Permit following the application of four algae treatments at Loch Lomond Reservoir.

Continued the two-year monitoring project required under the Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR) to evaluate source waters for the presence of two key microbial pathogens, Cryptosporidium and Giardia.

Supported a variety of emergency and planned infrastructure repair projects by collecting and processing water quality samples to ensure proper disinfection to avoid bacterial contamination prior to being returned to service.

Compiled Trihalomethanes (THM) data to better inform analytical work exploring the formation and control of disinfection by products in our distribution system.

Collected first flush samples of the San Lorenzo River as part of the new Source Water Assessment/Winter Water Monitoring program.

Completed quarterly water quality sampling and a analysis of monitoring wells in the Live Oak area to determine the presence of saltwater intrusion in the groundwater basin.



Customer Services

The department provides billing and customer services on behalf of the City's three utilities: water, refuse, and sewer. With rate increases beginning on July 1, 2016 for all three utilities, followed by a change in the structure of water rates on October 1, 2016, the Customer Service work load grew considerably, as staff worked with customers to understand the changes. On the Water side, the new rates ushered in a new rate structure with a focus on sending a conservation price signal to customers by placing more emphasis on the volume portion of the bill rather than the fixed service fees. To improve transparency for customers, the portion of the water bill that supports the rehabilitation and replacement of water system facilities was pulled out as a separate fee called the infrastructure reinvestment fee. The goal is to help people better understand the portion of their water bill being invested into replacing aging infrastructure. All dedicated irrigation accounts were moved to water based budgets and the large landscape water budget program was expanded. Workshops were provided to irrigation customers to help navigate the change. Conservation rebates for turf removal and high efficiency clothes washers were increased.

Work to improve the meter reading process was a greater focus of attention in FY 2017. A number of analyses were completed to better understand the existing system and prepare for a future migration to new meter reading technology. A Water Loss Audit was completed in FY2017, and while the Water Loss Audit found relatively little loss in the water system, enhanced meter testing was recommended to improve overall confidence in our vast system of meters and provide consistently accurate meter reads.

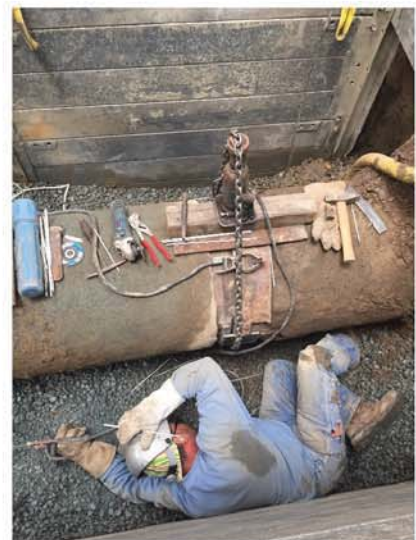
Engineering, Planning for Infrastructure Improvements & Supplemental Water Supply

An expanding capital program has created significant new workload for the department's Engineering group. The size, scale, and complexity of the projects in the department's Capital Improvement Program are much different than they have been historically, and this fact contributes to the challenges the staff face in implementing them. Still, great progress on several key projects and studies has been made during FY2017 as listed below.

Made significant progress on the Newell Creek Dam Inlet/Outlet Pipeline. Completed 10 percent design documents for the replacement of the pipeline and outlet structure.

Initiated improvements to the Graham Hill Water Treatment Plan sedimentation basins with the preparation of draft design documents for the replacement of the tube settlers, troughs, and the sludge collection system in each sedimentation basin.






Made significant progress on a Recycled Water Facilities Planning Study including determining a short-list of alternatives, conducting four webinars to present alternative information and obtain stakeholder input, and outreach efforts by means of presenting at a televised Water Commission Meeting.



Made significant progress on the Feasibility Investigation (Phase 1) of the Aquifer Storage and Recovery project. Work completed included preparing and finalizing Technical Memos that: identified existing wells as potential candidates for Phase 2 pilot testing; provided anticipated injection rates of the identified pilot test wells; evaluated the potential for adverse geochemical interactions due to mixing of injected surface waters and groundwater; and determined the rates of injection and extraction into the basins that are to be simulated in the groundwater models.





Distribution



The Water Department utilized a combination of contractor and distribution staff to complete or make substantial progress on a number of significant infrastructure improvements projects during FY2017 including:

-  Completed design and contract documents for the installation of 3,710 linear feet of water main on River and Potrero Streets.
 -  Completed the emergency replacement of 1,400 feet of 14-inch raw water main on the Liddell Pipeline.
 -  Completed emergency repairs of the 12-inch 1926 cast iron water main that serves Potrero Street.
 -  Completed emergency repairs of the 10-inch asbestos concrete water main that serves Laurel Street.
 -  Completed emergency repairs of the 6-inch cast iron water main on Highway 9 that serves Paradise Park living community.
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Production & Maintenance

Every day, the Water Department produces and delivers millions of gallons of water to nearly 100,000 customers residing within and outside of the City. A staff of water treatment operators and maintenance professionals is charged with operating and maintaining a diverse set of systems and facilities that range from sources of supply to pump stations, to treatment facilities, and distribution storage tanks.

-  Completed cleaning the GHWTP Sludge Tank which included dewatering and removal of 200,000 pounds of waste sludge.
-  Replaced the Pasatiempo to Carbonera pressure reducing valve and identified four critical pressure regulating stations that need to be replaced.
-  Replaced the Sodium Hypochlorite (bleach) tank at the GHWTP.
-  Installed a new booster pump at the Delaveaga Pump Station which will assist the Treatment Plant Operators in more effectively managing water age in the Delaveaga Tanks thereby helping to lower Trihalomethanes (THMs) in the distribution system.

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-  Completed cleaning the water storage tanks at Loch Lomond which are part of the park's water distribution system.
 -  Replaced a faulty breaker on the main PG&E power in support of the Tait Well replacement project.
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State & Regional Partnerships

To successfully solve water supply issues and as recommended by WSAC, the department is pursuing a number of partnerships with neighboring water districts. Continued effective working relationships with the various regulatory and state agencies are also required.

Executed a Cooperative Water Transfer Agreement with Soquel Creek Water District which is a pilot project to explore the potential for providing treated water to the district during the winter to allow the wells to rest, and improve the condition of the groundwater basin that is currently the sole source water supply.

Developed a draft Memorandum of Agreement with Scotts Valley and San Lorenzo Valley Water Districts to explore opportunities for conjunctive use of surface and groundwater resources.

Actively engaged in implementation of the 2014 Sustainable Groundwater Management Act in Santa Cruz Mid-County Groundwater Basin by providing Groundwater Sustainability Agency board members and technical and executive level staff support to the new agency's efforts that will result in development of a Groundwater Sustainability Plan by 2020.

Participated in environmental review of projects which could pose impacts to our water source watersheds including the County's proposed commercial cannabis cultivation ordinance.

Updated the Urban Water Management Plan.

FY 2018 GOALS

In FY 2018, the Department will continue to focus on project implementation, with key initiatives being reinvestment in the water system's backbone infrastructure and funding to support the capital investments required to develop water supply security. A second focus is organizational performance and the selection and implementation of tools and approaches which will help us efficiently and effectively meet the challenges ahead. A third focus will be on continued succession planning, particularly related to some of the department's operational staffing requirements for employees working in maintenance of electrical, mechanical, instrumentation systems, and in the treatment and distribution of drinking water. The department will make progress on a range of strategies for workforce development initiatives with other City departments as well as with other regional utilities.

Additional Goals for FY 2018





Continuing to deliver a reliable and high quality supply of water that complies with all federal and state drinking water standards to our 96,000 customers, 24 hours a day, 7 days a week, and 365 days a year.

Secure grant and low-interest funding to support implementation of the Capital Improvement Program.

Complete the department's Strategic Planning Process.

Conduct a public opinion poll to establish a baseline of the community's awareness of the water supply gap and the WSAC recommendations.




Continue to implement the WSAC recommended work plan by:

-  Continuing to work collaboratively with Soquel Creek Water district on water quality studies needed to assess the feasibility of in-lieu recharge.
-  Completing Phase 1 of the Aquifer Storage and Recovery(ASR) feasibility assessment and initiate Phase 2 work, including pilot testing.
-  Completing the preliminary alternatives analysis recycled water and seawater desalination as "back up" supply augmentation options.
-  Continuing to develop additional source water quality data to support evaluations of the feasibility, required treatment and cost of using winter water as part of a long term water supply for the City.



Beginning the NEPA/CEQA process for the draft aquatic-species Habitat Conservation Plan/Section 2081 Permit with NOAA and California DFW.

Completing construction on several significant infrastructure rehabilitation and replacement projects including:

-  Installing the landscaping and irrigation systems at the Bay Reservoir Tank site
-  Replacing 3,710 linear feet of 100 year old cast iron water main with a new water main on River and Potrero Streets
-  Initiating the replacement of the University Reservoir No. 5 including a new maintenance tank, main, and the construction of a new 2 million gallon storage tank.

Complete preliminary engineering, environmental review, and design for capital improvement projects including:

Replacing three 60-year-old concrete tanks at the Graham Hill Water Treatment Plant.

Designing and purchasing a replacement inflatable dam for the Felton Diversion Dam.

Continuing to work on Newell Creek Dam Inlet/Outlet Pipeline to replace the existing outlet under a timeline and project approval process overseen by DSOD.

Completing a condition assessment of the Newell Creek Pipeline from Loch Lomond to Graham Hill Water Treatment Plant to determine whether to rehabilitate or replace all or portions of the line.

Assessing Laguna and Majors diversions to determine if modifications will improve the efficiency and reduce environmental impacts.

Designing and preparing contract documents for the annual water main replacement to occur on Water Street.

Assessing options to make improvements to the Graham Hill Water Treatment Plant sedimentation basins.

Loch Lomond Reservoir Lake Management including development of a lake hydrodynamic model and feasibility design for rehabilitation or replacement of the existing aeration equipment to improve water quality and inform future management decisions.

Maintaining water service reliability and water quality by cleaning and inspecting all potable water storage reservoirs.

Launching the new Utility Maintenance Technician Trainee program at Graham Hill Water Treatment Plant.

DEPARTMENT SUMMARY

	Fiscal Year* 2016 Actuals	Fiscal Year 2017			Fiscal Year 2018 Adopted
		Adopted Budget	Amended* Budget	Estimated Actual	
EXPENDITURES BY CHARACTER:					
Personnel Services	10,552,312	12,741,984	12,802,461	11,465,958	14,249,469
Services, Supplies, and Other Charges	11,398,796	12,616,410	13,403,377	12,396,488	14,663,254
Capital Outlay	286,108	965,000	1,083,050	1,018,050	175,000
Debt Service	786,326	1,111,938	1,361,938	1,321,433	2,091,114
Total Expenditures	<u>23,023,541</u>	<u>27,435,332</u>	<u>28,650,826</u>	<u>26,201,929</u>	<u>31,178,837</u>
EXPENDITURES BY ACTIVITY:					
Water Administration	7101 4,478,178	5,166,074	5,416,135	4,992,065	5,510,616
Water Engineering	7102 2,033,528	3,028,647	3,268,931	2,930,031	3,157,517
Water Customer Services	7103 1,379,905	1,480,547	1,520,443	1,455,295	1,803,922
Water Conservation	7104 803,045	1,032,724	1,078,548	763,300	1,233,608
Water Resources	7105 1,010,381	1,486,943	1,639,357	1,161,779	2,667,347
Water Production	7106 5,908,516	6,100,712	6,211,014	6,066,078	6,682,228
Water Quality	7107 955,162	1,021,798	1,082,379	911,889	1,207,518
Water Distribution	7108 3,832,777	5,108,627	5,108,627	4,736,030	4,744,134
Water Recreation	7109 1,131,212	1,150,497	1,169,217	1,078,103	1,186,858
Water meter Shop	7113 221	746,825	791,125	768,129	893,037
Meter Shop	7118 608,549	-	-	17,797	938
Water Debt Service	7140 786,326	1,111,938	1,361,938	1,321,433	2,091,114
Drought Response 2014	7199 95,741	-	3,113	-	-
Subtotal Other Funds	<u>23,023,541</u>	<u>27,435,332</u>	<u>28,650,826</u>	<u>26,201,929</u>	<u>31,178,837</u>
Total Expenditures	<u>23,023,541</u>	<u>27,435,332</u>	<u>28,650,826</u>	<u>26,201,929</u>	<u>31,178,837</u>
RESOURCES BY FUND					
Water	711 26,895,903	53,294,778	53,294,778	53,728,229	41,340,450
Water System Development Fees Fund	715 518,350	330,000	330,000	655,000	825,000
Water - Emergency Reserve Fund	717 435,984	-	-	-	-
Total Resources	<u>27,850,237</u>	<u>53,624,778</u>	<u>53,624,778</u>	<u>54,383,229</u>	<u>42,165,450</u>
	FY 2016			FY 2017	FY 2018
TOTAL AUTHORIZED PERSONNEL:	<u>102.25</u>			<u>106.50</u>	<u>112.50</u>

Water Administration

Activity Number: 7101

ACTIVITY SUMMARY

Fund(s): Water & Water System Development Fees (711 & 715)

Department: 70

Activity Description:

The Water Administration section coordinates and manages department business by focusing on the following operational areas: human resources, finances, public relations, safety, and regulatory compliance. Administration is responsible for maintaining a rate structure that reflects cost of service, funds the department's capital improvement program, and provides adequate reserves. This section also facilitates the communication and interaction with the Water Commission, City Council, City Manager's Office and regulatory agencies.

	Fiscal Year 2017			
Fiscal Year 2016 Actuals	Adopted Budget	Amended Budget	Estimated Actual	Fiscal Year 2018 Adopted

EXPENDITURES BY ACTIVITY:

Personnel Services	1,242,604	1,408,213	1,408,213	1,144,362	1,398,271
Services, Supplies, and Other Charges	3,235,574	3,657,861	3,907,922	3,747,703	4,102,345
Capital Outlay	-	100,000	100,000	100,000	10,000
Total Expenditures	4,478,178	5,166,074	5,416,135	4,992,065	5,510,616

Water Engineering

Activity Number: 7102

ACTIVITY SUMMARY

Fund(s): Water (711)

Department: 70

Activity Description:

The Water Engineering section provides engineering, planning, project design and construction management necessary for water facilities, as well as evaluation and installation of water saving technologies. The section keeps current with new technologies and water quality issues, remaining sensitive to mitigation of environmental impacts; reviews all requests for water services; maintains records of facilities, installations and maps; and oversees the Backflow Prevention Program.

	Fiscal Year 2016 Actuals	Fiscal Year 2017			Fiscal Year 2018 Adopted
		Adopted Budget	Amended Budget	Estimated Actual	
EXPENDITURES BY ACTIVITY:					
Personnel Services	1,549,443	2,228,946	2,218,946	1,879,106	2,486,697
Services, Supplies, and Other Charges	415,005	734,701	971,935	972,875	670,820
Capital Outlay	69,080	65,000	78,050	78,050	-
Total Expenditures	2,033,528	3,028,647	3,268,931	2,930,031	3,157,517
ACTIVITY RESOURCES:					
Rents, & Misc Revenues	1,231	-	-	20,514	-
Total Resources	1,231	-	-	20,514	-

*Sums may have discrepancies due to rounding

Water Customer Services

Activity Number: 7103
 Fund(s): Water (711)
 Department: 70

ACTIVITY SUMMARY

Activity Description:

The Customer Services section (Santa Cruz Municipal Utilities -SCMU) provides customer service for water, sewer, refuse, and recycling services to the residents and businesses of the City of Santa Cruz, and only water services to the unincorporated surrounding areas. This section manages utility accounts and billing, processes opening and closing of accounts; and provides service in response to requests from the customers.

	Fiscal Year 2016 Actuals	Fiscal Year 2017			Fiscal Year 2018 Adopted
		Adopted Budget	Amended Budget	Estimated Actual	
EXPENDITURES BY ACTIVITY:					
Personnel Services	910,416	1,022,433	1,062,329	981,006	1,277,009
Services, Supplies, and Other Charges	440,332	458,114	458,114	474,289	526,913
Capital Outlay	29,157	-	-	-	-
Total Expenditures	1,379,905	1,480,547	1,520,443	1,455,295	1,803,922
ACTIVITY RESOURCES:					
Charges for Services	691,062	725,615	725,615	725,615	761,896
Total Resources	691,062	725,615	725,615	725,615	761,896

*Sums may have discrepancies due to rounding

Water Conservation

Activity Number: 7104

ACTIVITY SUMMARY

Fund(s): Water & Water System Development Fees (711 & 715)

Department: 70

Activity Description:

The Water Conservation section is responsible for promoting efficient water use and for implementing management practices that reduce customer demand for water, including public information and education activities, water budgets for large landscape customers, plumbing fixture replacement and appliance rebate programs, technical assistance, administration of landscape, and water waste regulations.

	Fiscal Year 2016 Actuals	Fiscal Year 2017			Fiscal Year 2018 Adopted
		Adopted Budget	Amended Budget	Estimated Actual	
EXPENDITURES BY ACTIVITY:					
Personnel Services	151,789	387,103	387,103	275,335	489,466
Services, Supplies, and Other Charges	651,256	645,621	691,445	487,965	744,142
Total Expenditures	803,045	1,032,724	1,078,548	763,300	1,233,608
ACTIVITY RESOURCES:					
Total Resources	-	-	-	-	-

*Sums may have discrepancies due to rounding

Water Resources

Activity Number: 7105
 Fund(s): Water (711)
 Department: 70

ACTIVITY SUMMARY

Activity Description:

The Water Resources Management section is responsible for the drinking water source protection, environmental regulatory compliance, and general natural resource management. The section coordinates environmental projects related to water rights, water supply, habitat conservation, and environmental resource protection.

	Fiscal Year 2016 Actuals	Fiscal Year 2017			Fiscal Year 2018 Adopted
		Adopted Budget	Amended Budget	Estimated Actual	
EXPENDITURES BY ACTIVITY:					
Personnel Services	506,214	569,579	569,579	541,460	739,806
Services, Supplies, and Other Charges	504,166	917,364	1,069,778	620,319	1,927,541
Total Expenditures	1,010,381	1,486,943	1,639,357	1,161,779	2,667,347
ACTIVITY RESOURCES:					
Rents, & Misc Revenues	12,400	-	-	-	-
Total Resources	12,400	-	-	-	-

*Sums may have discrepancies due to rounding

Water Production

Activity Number: 7106
 Fund(s): Water (711)
 Department: 70

ACTIVITY SUMMARY

Activity Description:

The Water Production section is responsible for production, operation, and maintenance of water storage, diversion, collection, pumping, and treatment facilities from all sources throughout the system.

	Fiscal Year 2016 Actuals	Fiscal Year 2017			Fiscal Year 2018 Adopted
		Adopted Budget	Amended Budget	Estimated Actual	
EXPENDITURES BY ACTIVITY:					
Personnel Services	2,300,259	2,610,428	2,610,428	2,451,694	2,867,078
Services, Supplies, and Other Charges	3,480,791	3,415,284	3,485,586	3,499,384	3,695,150
Capital Outlay	127,466	75,000	115,000	115,000	120,000
Total Expenditures	5,908,516	6,100,712	6,211,014	6,066,078	6,682,228
ACTIVITY RESOURCES:					
Rents, & Misc Revenues	44	-	-	-	-
Total Resources	44	-	-	-	-

*Sums may have discrepancies due to rounding

Water Quality

Activity Number: 7107
 Fund(s): Water (711)
 Department: 70

ACTIVITY SUMMARY

Activity Description:

The Water Quality Control section performs all water quality testing, and oversees matters pertaining to water quality control to maintain compliance with State and Federal standards and for planning for future treatment needs.

Fiscal Year 2016 Actuals	Fiscal Year 2017			Fiscal Year 2018 Adopted	
	Adopted Budget	Amended Budget	Estimated Actual		
EXPENDITURES BY ACTIVITY:					
Personnel Services	659,076	718,944	739,525	625,762	748,749
Services, Supplies, and Other Charges	268,490	267,854	307,854	251,127	413,769
Capital Outlay	27,595	35,000	35,000	35,000	45,000
Total Expenditures	955,162	1,021,798	1,082,379	911,889	1,207,518

*Sums may have discrepancies due to rounding

Water Distribution

Activity Number: 7108
 Fund(s): Water (711)
 Department: 70

ACTIVITY SUMMARY

Activity Description:

The Water Distribution section is responsible for the maintenance and operation of all transmission mains, distribution mains, service lines, and hydrants in the service area.

	Fiscal Year 2016 Actuals	Fiscal Year 2017			Fiscal Year 2018 Adopted
		Adopted Budget	Amended Budget	Estimated Actual	
EXPENDITURES BY ACTIVITY:					
Personnel Services	2,198,180	2,598,943	2,598,943	2,398,071	2,901,536
Services, Supplies, and Other Charges	1,634,597	1,879,684	1,814,684	1,707,959	1,842,598
Capital Outlay	-	630,000	695,000	630,000	-
Total Expenditures	3,832,777	5,108,627	5,108,627	4,736,030	4,744,134

*Sums may have discrepancies due to rounding

Water Recreation

Activity Number: 7109
 Fund(s): Water (711)
 Department: 70

ACTIVITY SUMMARY

Activity Description:

The Water Recreation Facility section operates and maintains Loch Lomond Recreation Area. The section is also responsible for patrolling watershed property and protecting source water quality.

	Fiscal Year 2016 Actuals	Fiscal Year 2017			Fiscal Year 2018 Adopted
		Adopted Budget	Amended Budget	Estimated Actual	
EXPENDITURES BY ACTIVITY:					
Personnel Services	650,665	790,205	790,205	760,736	832,982
Services, Supplies, and Other Charges	447,739	300,292	319,012	257,367	353,876
Capital Outlay	32,808	60,000	60,000	60,000	-
Total Expenditures	1,131,212	1,150,497	1,169,217	1,078,103	1,186,858
ACTIVITY RESOURCES:					
Licenses and Permits	2,843	600	600	1,900	1,425
Rents, & Misc Revenues	215,361	130,000	130,000	319,100	238,500
Total Resources	218,204	130,600	130,600	321,000	239,925

*Sums may have discrepancies due to rounding

Water meter Shop

Activity Number: 7113
 Fund(s): Water (711)
 Department: 70
 Activity Description:

ACTIVITY SUMMARY

	Fiscal Year 2016 Actuals	Fiscal Year 2017			Fiscal Year 2018 Adopted
		Adopted Budget	Amended Budget	Estimated Actual	
EXPENDITURES BY ACTIVITY:					
Personnel Services	-	407,190	417,190	391,567	507,875
Services, Supplies, and Other Charges	221	339,635	373,935	376,562	385,162
Total Expenditures	221	746,825	791,125	768,129	893,037

*Sums may have discrepancies due to rounding

Meter Shop

Activity Number: 7118
 Fund(s): Water (711)
 Department: 70

ACTIVITY SUMMARY

Activity Description:

The Meter Shop section is responsible for reading, inspecting, installing, maintaining, and replacing water meters in the service area that covers the City of Santa Cruz and the unincorporated surrounding areas.

Fiscal Year 2016 Actuals	Fiscal Year 2017			Fiscal Year 2018 Adopted	
	Adopted Budget	Amended Budget	Estimated Actual		
Personnel Services	293,717	-	-	16,859	-
Services, Supplies, and Other Charges	314,832	-	-	938	938
Total Expenditures	608,549	-	-	17,797	938

EXPENDITURES BY ACTIVITY:

*Sums may have discrepancies due to rounding

Water Debt Service

Activity Number: 7140

ACTIVITY SUMMARY

Fund(s): Water & Water System Development Fees (711 & 715)

Department: 70

Activity Description:

Funds principal and interest payments on issued debt.

	Fiscal Year 2016 Actuals	Fiscal Year 2017			Fiscal Year 2018 Adopted
		Adopted Budget	Amended Budget	Estimated Actual	
EXPENDITURES BY ACTIVITY:					
Debt Service	786,326	1,111,938	1,361,938	1,321,433	2,091,114
Total Expenditures	786,326	1,111,938	1,361,938	1,321,433	2,091,114

Drought Response 2014

Activity Number: 7199

ACTIVITY SUMMARY

Fund(s): Water (711)

Department: 70

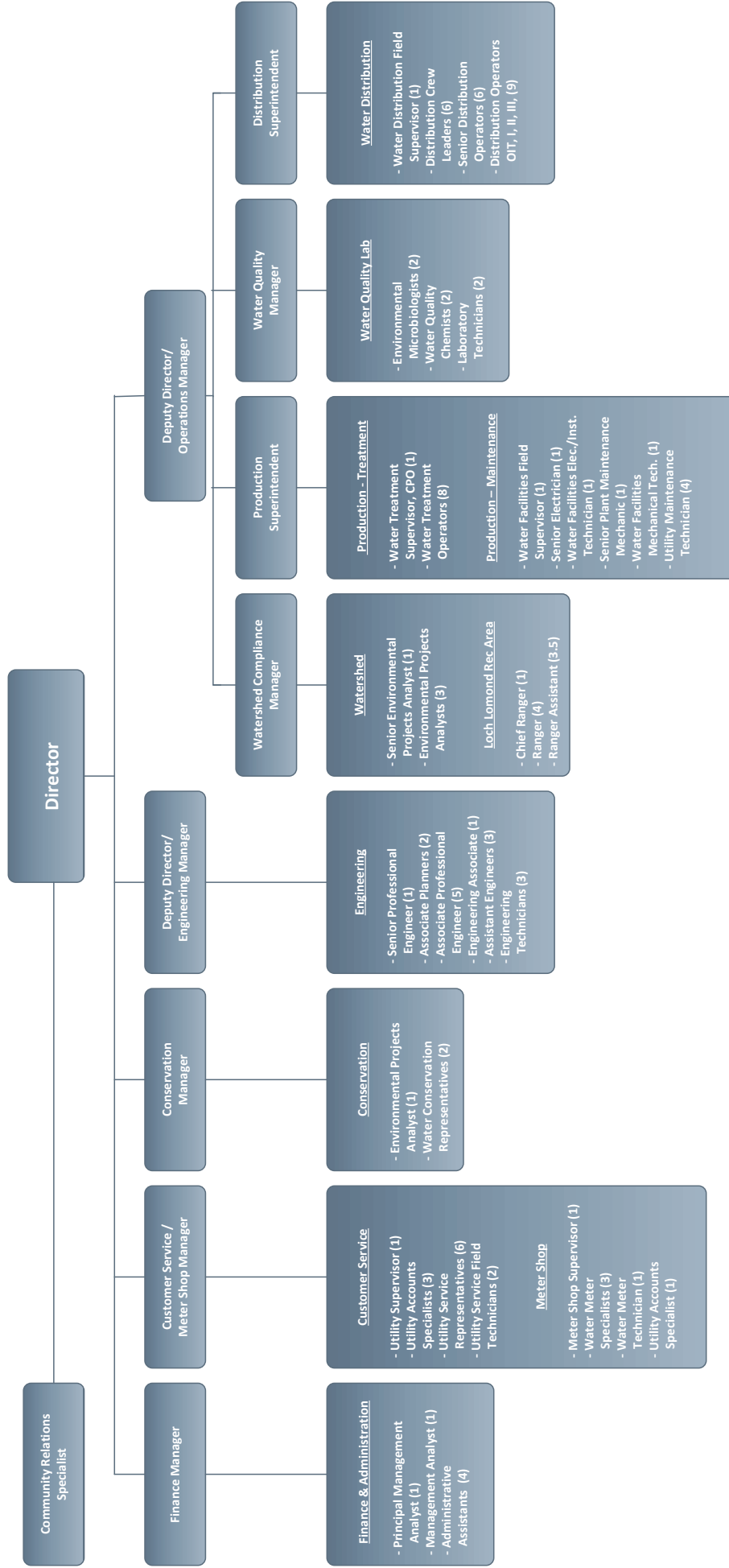
Activity Description:

This activity accounts for expenses and revenues beyond the department's base operating budget related to Stage 3 (or higher) Water Shortage Emergency incurred in calendar year 2014. Tracking of such expenses and revenues will begin with the Stage 3 Water Shortage Emergency declared by City Council on February 25, 2014 and continuing until such emergency is reduced to Stage 2 or lower.

	Fiscal Year 2016 Actuals	Fiscal Year 2017			Fiscal Year 2018 Adopted
		Adopted Budget	Amended Budget	Estimated Actual	
EXPENDITURES BY ACTIVITY:					
Personnel Services	89,948	-	-	-	-
Services, Supplies, and Other Charges	5,793	-	3,113	-	-
Total Expenditures	95,741	-	3,113	-	-
ACTIVITY RESOURCES:					
Fines and Forfeitures	27,408	-	-	-	-
Total Resources	27,408	-	-	-	-

*Sums may have discrepancies due to rounding

Water Department



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