CAPITAL IMPROVEMENT PROGRAM

WATER

WATER FUNDS (711-715)

Project Title/Number/Description	Prior Years	FY 2007 Estimated Actual	FY 2007 Estimated Carryover	FY 2008 Proposed Budget	Project Total
Access Road Improvements					
c709840					
Minor road repair and pipeline clearance work to gain access to water facilities and equipment.					
Project Cost Estimate	$ 86,000	$ 52,000	$ -	$ 25,000	$ 163,000
Add Beltz Wells					
c700026; c709830					
Add Beltz wells in an effort to provide redundancy and potentially redistribute pumping away from the coast. One replacement well (Beltz #11) for the inoperable Beltz #4 and one standby well (Beltz #12) must be investigated and constructed. Funds in FY 2008 are for investigation and test well, CEQA, property acquisitions and permitting procedures. Funds in FY 2009 are for the construction.					
Project Cost Estimate	$ 65,500	$ 500,000	$ -	$ 1,200,000	$ 1,765,500
Additional Piezometers - Newell Creek Dam and Bay Street Reservoir Embankment					
c700021					
Drill nine exploratory borings at Newell Creek Dam to invewstigate slope stability per request from state DWR DSOD. Six will become piezometers for long-term water level elevations. Included in this work is the repair and/or modifications to one existing piezometer at Newell Creek Dam and two at the Bay Street Reservoir.					
Project Cost Estimate	$ -	$ 150,000	$ -	$ -	$ 150,000
Bay Street Reservoir Reconstruction					
c700313					
The Bay Street Reservoir has reached the end of its useful life and needs to be replaced. Due to water quality and other factors, the reservoir must be resized to accommodate 10 MG of storage in this location. Funding for FY 2008 is for design. Funding for FY 2009 is for construction of the first 5 MG tank. Funding in FY 2020 is for construction of the second 5 MG tank.					
Project Cost Estimate	$ -	$ 1,320,000	$ -	$ 1,600,000	$ 2,920,000
Bay Street Reservoir Reconstruction - SDC					
c700027					
The Bay Street Reservoir has reached the end of its useful life and needs to be replaced. Due to water quality and other factors, the reservoir must be resized to accommodate 10 MG of storage in this location. Funding for FY 2008 is for design. Funding for FY 2009 is for construction of the first 5 MG tank. Funding in FY 2020 is for construction of the second 5 MG tank. **This project is funded by System Development Charges (SDC).**					
Project Cost Estimate	$ -	$ 880,000	$ -	$ 400,000	$ 1,280,000
Beltz Treatment Plant Rehabilitation					
c700020					
The Beltz Treatment Plant supplies up to 2 mgd of water during the summer peak water demand season. The facility was last updated in 1986 and requires modernization to assure reliable water delivery. Funds in FY 2009 and FY 2010 will be used for construction.					
Project Cost Estimate	$ 27,000	$ 305,000	$ 870,000	$ -	$ 1,202,000
City-Initiated Main Replacements					
c700002 (Annual)					
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.					
Project Cost Estimate	$ 675,000	$ -	$ -	$ 800,000	$ 1,475,000

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Contractor Meter Installations - SDC c700012 (Annual)					
Funds to purchase meters for installation in new projects. **This project is funded by System Development Charges (SDC).**					
Project Cost Estimate	$ 16,000	$ 8,000	$ -	$ 8,000	$ 32,000
County and Other Agency Redevelopment Work c700003 (Annual)					
Water main, service line, valve, or water meter relocation necessitated by County or other Agency road improvement and/or storm drain improvement projects.					
Project Cost Estimate	$ 146,000	$ 269,000	$ -	$ 100,000	$ 515,000
Customer-Initiated Main Replacements - SDC c700004 (Annual)					
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 (SDC).**					
Project Cost Estimate	$ 61,000	$ 50,000	$ -	$ 50,000	$ 161,000
Disinfection Change-Out at GHWTP c700008					
Replace existing gaseous chlorine disinfection at the GHWTP. This project will provide for design, purchase and installation of a less hazardous non-gas sodium hypochlorite generation system.					
Project Cost Estimate	$ 44,000	$ 200,000	$ -	$ 650,000	$ 894,000
Distribution-Initiated Main Replacements c700005 (Annual)					
Annual Replacement Program similar to the City-Initiated and Customer-Initiated Main Replacement Programs, however, these projects are initiated on an as-needed basis by the Distribution Division.					
Project Cost Estimate	$ 109,000	$ 100,000	$ -	$ 100,000	$ 309,000
Drinking Water Source Protection c700802					
Development of the Watershed ID project.					
Project Cost Estimate	$ -	$ -	$ -	$ 20,000	$ 20,000
GHWTP Building Upgrades c700010					
The Graham Hill Water Treatment Plant building was built in 1960, and even though its heating, ventilation, electrical, and plumbing systems have been maintained in good working condition, their efficiency is well below that of contemporary equipment. This project will upgrade existing systems with more energy efficient equipment.					
Project Cost Estimate	$ 4,000	$ 50,000	$ -	$ 50,000	$ 104,000
Habitat Conservation Programs c700803					
Work to comply with Habitat Conservation Plans. Funds in FY 2008 are for Laguna Lagoon restoration and E.Zayante Road abandonment design process. Funds in FY 2009 and FY 2010 are for San Lorenzo River Fisheries Habitat improvements and decommisioning/construction of E.Zayante Road.					
Project Cost Estimate	$ -	$ -	$ -	$ 350,000	$ 350,000

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Project Title / Number / Description	Prior Years	FY 2007 Estimated Actual	FY 2007 Estimated Carryover	FY 2008 Proposed Budget	Project Total
Hydrological Improvements					
c700804					
Project to improve hydrologic monitoring in the watershed. Funds in FY 2008 are for flume installation and rating curve work at Lower Newell Creek, and Laguna Real Time Flow monitoring.					
Project Cost Estimate	$ -	$ -	$ -	$ 35,000	$ 35,000
Loch Lomond Facility Improvement Project					
c709837					
Funds to conduct a facility improvement program at Loch Lomond including replacing both the private boat launch and the boat rental docks, replacing the lower lot and loch view restrooms to provide handicapped access, Loch View Trail improvement to provide handicapped access, supply auxiliary power to Eagle Dell water treatment plant, improve entrance station, building re-roofing, pavement maintenance, signage replacement, interpretive overlook, Highland Trail rehabilitation, and constructing storage and workshops.					
Project Cost Estimate	$ 138,000	$ 65,000	$ 320,000	$ 60,000	$ 583,000
Meter Retrofit Program					
c709860					
Retrofit Program to replace manual read meters with radio read meters in the whole system. Funds in FY 2008 will complete the multi-year project. After that some funds will be required to maintain and repair the radio read meters.					
Project Cost Estimate	$ 2,538,000	$ 803,000	$ -	$ 800,000	$ 4,141,000
Miscellaneous Facility Upgrades and Reconditioning					
c709817					
Provides for replacing or reconditioning major system infrastructure such as pumps, motors, gear drives or structures.					
Project Cost Estimate	$ 117,000	$ 30,000	$ -	$ 30,000	$ 177,000
Modify San Lorenzo Intake at Crossing Street					
c709872					
Rehabilitate dam and investigate sanding problem/infiltration gallery at San Lorenzo River Intake at Crossing Street. FY 2007 appropriation will fund a study that would recommend possible solutions.					
Project Cost Estimate	$ -	$ 211,000	$ -	$ -	$ 211,000
North Coast System Rehabilitation					
c709835					
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. Transmission mains are deteriorated and follow precarious alignments, often through environmentally sensitive areas. Funding in FY 2010 is for engineering and environmental review of the second segment.					
Project Cost Estimate	$ 1,160,000	$ 453,000	$ -	$ -	$ 1,613,000
Photovoltaic / Solar Projects					
c700022					
Provides funds to investigate solar energy alternatives and opportunities to use it for desalination plant operation. Funds in FY 2008 are designated for solar project in association with Graham Hill Water Treatment Plant and Corporation Yard.					
Project Cost Estimate	$ -	$ -	$ -	$ 1,750,000	$ 1,750,000
PG&E Rebate (40%)	-	-	-	(700,000)	(700,000)
Net Expenditure	-	-	-	1,050,000	1,050,000

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Project Title / Number / Description	Prior Years	FY 2007 Estimated Actual	FY 2007 Estimated Carryover	FY 2008 Proposed Budget	Project Total
Photovoltaic / Solar Projects - SDC					
c700023					
Provides funds to investigate solar energy alternatives and opportunities to use it for desalination plant operation. Funds in FY 2008 are designated for solar project in association with Graham Hill Water Treatment Plant and Corporation Yard. **This project is funded by System Development Charges (SDC).**					
Project Cost Estimate	$ -	$ -	$ -	$ 750,000	$ 750,000
PG&E Rebate (40%)	-	-	-	(300,000)	(300,000)
Net Expenditure	-	-	-	450,000	450,000
Power Management Study / Electrical Service Upgrade					
c700303					
Funds in FY 2008 are for installation of a larger electrical service, including power factor control equipment, at the GHWTP, which will provide adequate power for future plant process changes such as UV disinfection, chlorine generation and membrane filtration.					
Project Cost Estimate	$ 39,000	$ 450,000	$ -	$ 3,000,000	$ 3,489,000
Pump Rehabilitation Project					
c700308					
Funds to rehabilitate and/or rebuild pumps to extend the useful life throughout the water system.					
Project Cost Estimate	$ 77,000	$ 33,000	$ -	$ 30,000	$ 140,000
Road Maintenance and Rehabilitation Program					
c700801					
The Water Department owns and/or maintains a variety of roads that provide access to various facilities. Funding provides for an inventory and assessment of access roads and conditions followed by design and construction. It is anticipated that this will become an annual project.					
Project Cost Estimate	$ -	$ -	$ -	$ 105,000	$ 105,000
Regulator Upgrades-SDC					
c70____					
Slide Repair at GHWTP					
e701001					
As a result of the April 2006 rainfall, a landslide developed on the treatment plant property. The slide must be repaired to avoid potential impacts to adjacent property.					
Project Cost Estimate	$ -	$ -	$ 225,000	$ 80,000	$ 305,000
Transmission System Improvements					
c709833 (Annual)					
Recurring program to improve the transmission grid.					
Project Cost Estimate	$ 663,000	$ 352,000	$ -	$ 400,000	$ 1,415,000
Transmission System Improvements-SDC					
c700017 (Annual)					
Recurring program to improve the transmission grid. **This project is funded by System Development Charges (SDC).**					
Project Cost Estimate	$ 119,000	$ 87,000	$ -	$ 100,000	$ 306,000

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Project Title / Number / Description	Prior Years	FY 2007 Estimated Actual	FY 2007 Estimated Carryover	FY 2008 Proposed Budget	Project Total
Water Quality Lab Remodel					
c709859					
The Water Quality laboratory has outgrown its existing space and will be redesigned and expanded. Due to several changes in the design process, the design-build contract with an original vendor was terminated. Funds are reappropriated in FY 2008 for construction.					
Project Cost Estimate	$ 174,000	$ 200,000	$ -	$ 1,500,000	$ 1,874,000
Water Resources Facility Improvements					
c700805					
Construction of new bathrooms, deck and storage at the Water Resources Facility.					
Project Cost Estimate	$ -	$ -	$ -	$ 75,000	$ 75,000
Water Services					
c700006(Annual)					
Recurring program to repair, recondition or establish water services at various locations to meet customer demand and to replace deteriorated services.					
Project Cost Estimate	$ 372,000	$ 200,000	$ -	$ 300,000	$ 872,000
Water Supply Project					
c700305					
Funding in FY 2008 is for intake design, in FY 2009 for full scale design and environmental review, and in 2010 for property acquisitions.					
Project Cost Estimate	$ 565,000	$ 2,392,000	$ -	$ 350,000	$ 3,307,000
Reimbursement from SQWD	-	-	-	(850,000)	(850,000)
Grant Funding	-	(1,050,000)	-	(336,000)	(1,386,000)
Net Expenditure	565,000	1,342,000	-	(836,000)	1,071,000
Water Supply Project - SDC					
c700016					
Funding in FY 2008 is for intake design, in FY 2009 for full scale design and environmental review, and in 2010 for property acquisitions. **This project is funded by System Development Charges (SDC).**					
Project Cost Estimate	$ 167,000	$ 1,022,000	$ -	$ 150,000	$ 1,339,000
Reimbursement from SQWD	-	-	-	(365,000)	(365,000)
Grant Funding	-	(450,000)	-	(144,000)	(594,000)
Net Expenditure	167,000	572,000	-	(359,000)	380,000
Water System Security					
c700310					
Funding to implement security and emergency response measures as identified in the vulnerability assessment process. Funds in FY 2007 are for implementation of new system.					
Project Cost Estimate	$ 107,000	$ 541,000	$ -	$ -	$ 648,000
Transfer 2% to Public Art Fund	-	10,820	32,600	-	43,420
Net Expenditure	107,000	551,820	32,600	-	691,420
Water Treatment Upgrades					
c700025					
Upgrades to the Graham Hill Water Treatment Plant, water distribution system, and storage reservoirs necessary to enhance water quality, meet new and planned regulatory requirements, and increase overall system reliability. Funds in FY 2008 are for design, in FY 2009 for construction. This is a follow up project to c700014, Water Treatment Upgrade Study.					
Project Cost Estimate	$ -	$ 200,000	$ -	$ 150,000	$ 350,000

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Project Title / Number / Description	Prior Years	FY 2007 Estimated Actual	FY 2007 Estimated Carryover	FY 2008 Proposed Budget	Project Total
Watershed Lands Restoration c700304					
The Watershed Planning and Analysis Recommendation Report recommended that certain improvements be made to the watershed land owned by the Water Department. Funds in FY 2008 are for Upper Newell Drainage Improvements, in FY 2009 and FY 2010 for implementation of Watershed Lands Plan (which should be complete in 2008) and includes fuel break, forest stand and vegetation management, planned road/drainage improvements, etc.					
Project Cost Estimate	$ 61,000	$ 65,000	$ -	$ 20,000	$ 146,000
Watershed Roads Repair c700807(Annual)					
Emergency maintenance and repair of the roads servicing the watersheds					
Project Cost Estimate	$ -	$ -	$ -	$ 25,000	$ 25,000
TOTAL WATER FUND PROJECTS:					
Project Costs	$ 7,530,500	$ 10,988,000	$ 1,415,000	$ 15,063,000	$ 34,996,500
2% for Public Art	-	10,820	32,600	-	43,420
Total Project Costs	7,530,500	10,998,820	1,447,600	15,063,000	35,039,920
Less Funding Sources:					
Grants/Rebates/Reimbursements	-	(1,500,000)	-	(2,695,000)	(4,195,000)
Net Water Fund Project Costs	$ 7,530,500	$ 9,498,820	$ 1,447,600	$ 12,368,000	$ 30,844,920