

ITEM 10

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Public Works Wastewater

Project Description	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
El Estero Drain Restoration Project	\$500,000	\$500,000	\$0	\$0	\$0	\$0	\$1,000,000
El Estero Treatment Plant Maintenance Program	\$230,000	\$120,000	\$70,000	\$500,000	\$20,000	\$200,000	\$1,140,000
El Estero Wastewater Treatment Plant Air Process Improvements	\$400,000	\$2,000,000	\$2,000,000	\$0	\$0	\$0	\$4,400,000
El Estero Wastewater Treatment Plant Influent Pumps' Replacement	\$2,030,000	\$0	\$0	\$0	\$0	\$0	\$2,030,000
El Estero Wastewater Treatment Plant Process Improvements Program	\$390,000	\$1,430,000	\$480,000	\$1,300,000	\$1,130,000	\$2,810,000	\$7,540,000
Lift Station Maintenance Program	\$230,000	\$120,000	\$70,000	\$500,000	\$20,000	\$200,000	\$1,140,000
Sanitary Sewer Overflow Compliance Program	\$1,150,000	\$1,150,000	\$1,150,000	\$1,150,000	\$1,150,000	\$1,150,000	\$6,900,000
TOTAL:	\$4,930,000	\$5,320,000	\$3,770,000	\$3,450,000	\$2,320,000	\$4,360,000	\$24,150,000

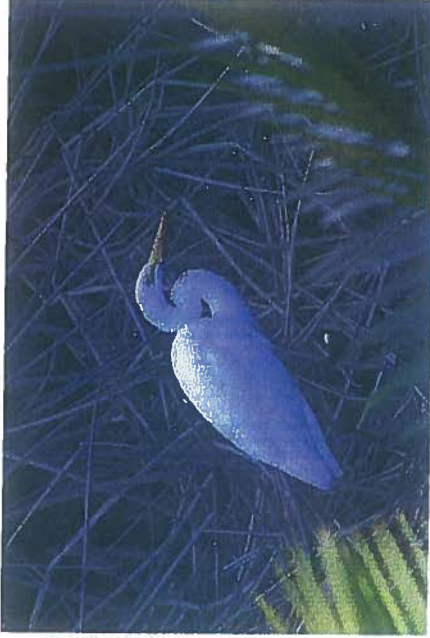
Source of Funds	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Unfunded	\$500,000	\$1,000,000	\$0	\$0	\$0	\$550,000	\$2,050,000
Wastewater	\$4,430,000	\$4,320,000	\$3,770,000	\$3,450,000	\$2,320,000	\$3,810,000	\$22,100,000
TOTAL:	\$4,930,000	\$5,320,000	\$3,770,000	\$3,450,000	\$2,320,000	\$4,360,000	\$24,150,000

Public Works Wastewater

El Estero Drain Restoration Project

Description:

This project provides restorative site habitat for City Wastewater Fund-owned real property adjacent to the El Estero Wastewater Treatment Plant.



Specific Plans or Policies Relating to this Project:

The project is designed to comply with multiple regulatory agencies' environmental requirements for final end use of the above mentioned real property.

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Wastewater Unfunded	<input type="checkbox"/>	500,000	500,000	0	0	0	0	\$1,000,000
Total		500,000	500,000	0	0	0	0	\$1,000,000

Estimated Operating Impact:

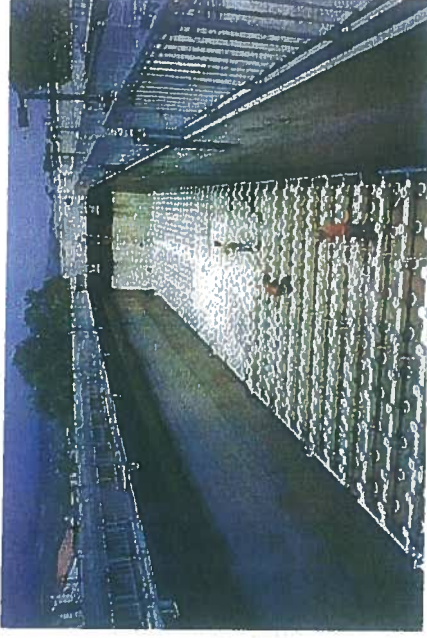
New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce	0.0	Maintain	0.0	Increase	0.0		

Public Works Wastewater

El Estero Treatment Plant Maintenance Program

Description:

An annual program of capital maintenance to replace electrical and mechanical equipment in a timely manner to keep the El Estero Treatment Plant operating at a fully functional level. This program includes items such as an ongoing program of equipment rehabilitation or replacement, replacement of laboratory equipment, continued integration of plant processes to the SCADA program, on-going program of pipe replacement throughout the plant, and hardscape improvements. This program also funds the development and integration of an asset management program to efficiently manage the maintenance and replacement of plant equipment. Examples of the types of projects included in this program are the replacement of the belt-press wash water pump, and chemical systems' equipment replacements.



Specific Plans or Policies Relating to this Project:

Maintaining the treatment plant is important to remaining in compliance with the City's NPDES permit and upgrading the plant to current regulatory and sustainable standards.

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Wastewater	<input checked="" type="checkbox"/>	230,000	120,000	70,000	500,000	20,000	200,000	\$1,140,000
Total		230,000	120,000	70,000	500,000	20,000	200,000	\$1,140,000

Estimated Operating Impact:

New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce		Maintain	1.0 plant	Increase			

Public Works Wastewater

El Estero Wastewater Treatment Plant Air Process Improvements

Description:

This project provides for engineering design and construction of process air system improvements associated with the facility's activated sludge secondary treatment process.

Specific Plans or Policies Relating to this Project:

The El Estero Wastewater Treatment Plant (EEWWTP) operates under a federal National Pollutant Discharge Elimination System (NPDES) Permit. This permit requires regular assessment, refurbishment, and improvement of unit process equipment in order to maintain compliance with applicable permits. This project is an important part of the EEWWTP's overall efforts to maintain compliance with the NPDES Permit.

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Wastewater	<input checked="" type="checkbox"/>	400,000	1,500,000	2,000,000	0	0	0	\$3,900,000
Wastewater Unfunded	<input type="checkbox"/>	0	500,000	0	0	0	0	\$500,000
Total		400,000	2,000,000	2,000,000	0	0	0	\$4,400,000

Estimated Operating Impact:

New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce	0.0	Maintain	0.0	Increase	0.0		

Public Works Wastewater

El Estero Wastewater Treatment Plant Influent Pumps' Replacement

Description:

This project replaces the existing El Estero Wastewater Treatment Plant influent pumps. This project will be in the construction phase during Fiscal Year 2012.

Specific Plans or Policies Relating to this Project:

Engineering plans and specifications have been prepared in Fiscal Year 2011. The funding for planning and design work has been funded in prior Fiscal Years. Successful construction of this project is important to remaining in compliance with the City's NPDES permit and upgrading the plant to current regulatory and sustainable standards.

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Wastewater	<input checked="" type="checkbox"/>	2,030,000	0	0	0	0	0	\$2,030,000
Total		2,030,000	0	0	0	0	0	\$2,030,000

Estimated Operating Impact:

New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce	0.0	Maintain	0.0	Increase	0.0		

Public Works Wastewater

El Estero Wastewater Treatment Plant Process Improvements Program

Description:

A capital program providing betterment for the major equipment and process components used to treat wastewater at the El Estero Wastewater Treatment Plant. The facility is approximately 30 years old; major plant processes need on-going improvement. In the next planning horizon, major plant processes for facility improvements include: upgrading digester heat exchangers, digester gas piping, and related appurtenances; replacing motor control centers and related electrical equipment; various solids handling equipment assessments and improvements; and other similar large and engineered projects.



Specific Plans or Policies Relating to this Project:

The El Estero Wastewater Treatment Plant (EEWWTP) operates under a federal National Pollutant Discharge Elimination System (NPDES) Permit. This Permit requires regular assessment, refurbishment and improvement of unit process equipment in order for the EEWWTP to maintain continued compliance with applicable requirements.

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Wastewater	<input checked="" type="checkbox"/>	390,000	1,430,000	480,000	1,300,000	1,130,000	2,260,000	\$6,990,000
Wastewater Unfunded	<input type="checkbox"/>	0	0	0	0	0	550,000	\$550,000
Total		390,000	1,430,000	480,000	1,300,000	1,130,000	2,810,000	\$7,540,000

Estimated Operating Impact:

New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce		Maintain	1.0 treatment pla	Increase			

Public Works Wastewater

Lift Station Maintenance Program

Description:

An annual program of capital maintenance to keep wastewater lift stations in fully operational status. Timely replacement of motor control centers, pumps, motors, water level sensors and other electrical and mechanical equipment prevents lift station failures that can result in wastewater collection system overflows.



Specific Plans or Policies Relating to this Project:

Proper operation and maintenance is a requirement of the City's NPDES permit

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Wastewater	<input checked="" type="checkbox"/>	230,000	120,000	70,000	500,000	20,000	200,000	\$1,140,000
Total		230,000	120,000	70,000	500,000	20,000	200,000	\$1,140,000

Estimated Operating Impact:

New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce		Maintain	9.0 lift stations	Increase			

Public Works Wastewater

Sanitary Sewer Overflow Compliance Program

Description:

The Sanitary Sewer Overflow (SSO) Compliance Program is comprised of projects that will help in the prevention of sewage spills. This level of Program funding supports primarily structural rehabilitation of approximately 1% of the public sewage collection system mains and manholes. This Program also provides for sewer main video assessments; maintains a hydraulic sewer computer model and computerized maintenance management system, and allows related asset management planning studies to direct future pipeline rehabilitation projects.



Specific Plans or Policies Relating to this Project:

Spills from the City's wastewater collection system are prohibited by the Clean Water Act and the City's NPDES permit. The City's Sewer System Management Plan sets forth the manner in which the municipal wastewater collection system will be managed to try to prevent sanitary sewer overflows.

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Wastewater	<input checked="" type="checkbox"/>	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	\$6,900,000
Total		1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	1,150,000	\$6,900,000

Estimated Operating Impact:

New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce		Maintain	263.0 miles	Increase			

Public Works Water

Project Description	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Annual Water Main Replacement Program	\$4,050,000	\$4,050,000	\$4,050,000	\$4,050,000	\$4,050,000	\$4,050,000	\$24,300,000
Cater Treatment Plant Equipment Rehabilitation	\$600,000	\$600,000	\$600,000	\$600,000	\$575,000	\$575,000	\$3,550,000
Distribution Pump Station Rehabilitation	\$900,000	\$850,000	\$320,000	\$500,000	\$200,000	\$200,000	\$2,970,000
Distribution Reservoir Maintenance Program	\$450,000	\$350,000	\$420,000	\$100,000	\$100,000	\$350,000	\$1,770,000
Groundwater Supply Program	\$495,000	\$1,068,010	\$725,000	\$1,118,000	\$1,600,000	\$300,000	\$5,306,010
Recycled Water Program	\$225,000	\$2,125,000	\$125,000	\$125,000	\$125,000	\$375,000	\$3,100,000
Water Facilities Corporation Yard Well Replacement	\$2,500,000	\$0	\$0	\$0	\$0	\$0	\$2,500,000
TOTAL:	\$9,220,000	\$9,043,010	\$6,240,000	\$6,493,000	\$6,650,000	\$5,850,000	\$43,496,010
Source of Funds							
Unfunded	\$3,050,000	\$2,550,000	\$1,550,000	\$1,550,000	\$1,050,000	\$0	\$9,750,000
Water	\$6,170,000	\$6,493,010	\$4,690,000	\$4,943,000	\$5,600,000	\$5,850,000	\$33,746,010
TOTAL:	\$9,220,000	\$9,043,010	\$6,240,000	\$6,493,000	\$6,650,000	\$5,850,000	\$43,496,010

Public Works Water

Annual Water Main Replacement Program

Description:

Annual program of replacement of 1%, approximately 16,000 feet, of the City's water distribution piping system.

This program is under funded.



Specific Plans or Policies Relating to this Project:

Council's goals is to annually replace 1% of the distribution system infrastructure.

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Water	<input checked="" type="checkbox"/>	3,500,000	1,500,000	2,500,000	2,500,000	3,000,000	4,050,000	\$17,050,000
Water Unfunded	<input type="checkbox"/>	550,000	2,550,000	1,550,000	1,550,000	1,050,000	0	\$7,250,000
Total		4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	4,050,000	\$24,300,000

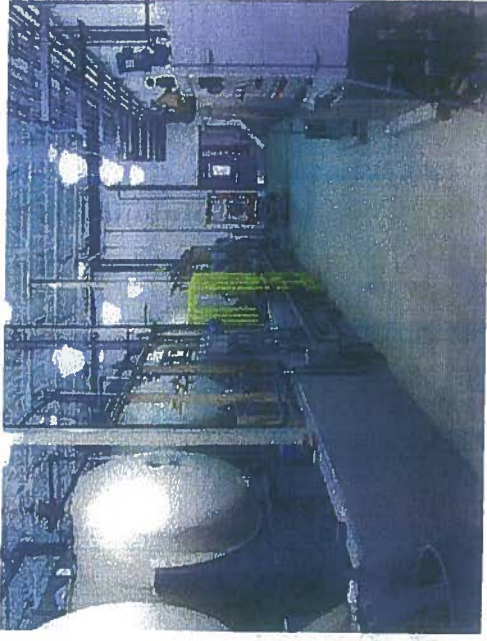
Estimated Operating Impact:

New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce		Maintain	16,000.0Ft	Increase			

Cater Treatment Plant Equipment Rehabilitation

Description:

Annual capital program for Cater Water Treatment Plant includes baseline maintenance, granulated activated carbon filter media replacement, SCADA upgrades, and equipment upgrades.



Specific Plans or Policies Relating to this Project:

Routine equipment rehabilitation is an important part of asset management at Cater.

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Water	<input checked="" type="checkbox"/>	600,000	600,000	600,000	600,000	575,000	575,000	\$3,550,000
Total		600,000	600,000	600,000	600,000	575,000	575,000	\$3,550,000

Estimated Operating Impact:

New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce	0.0	Maintain	0.0	Increase	0.0		

Distribution Pump Station Rehabilitation

Description:

The Distribution Pump Station Program includes: Baseline Maintenance, El Cielito, Escondido, Bothin pump stations - construction of designed upgrades; Calle Las Caleras Station SCADA Upgrades, and Cater Cross-tie Electric Meter.



Specific Plans or Policies Relating to this Project:

The City's water pump stations are critical infrastructure that require routine rehabilitation and maintenance.

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Water	<input checked="" type="checkbox"/>	900,000	850,000	320,000	500,000	200,000	200,000	\$2,970,000
Total		900,000	850,000	320,000	500,000	200,000	200,000	\$2,970,000

Estimated Operating Impact:

New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce	0.0	Maintain	0.0	Increase	0.0		

Distribution Reservoir Maintenance Program

Description:

The Distribution Reservoir Program includes maintenance and upgrades of the City's water storage reservoirs including: installation of Mag meters at Reservoir No. 2, Tunnel Reservoir, and La Mesa Reservoir; the East Reservoir mixing system retrofit; Escondido, and Hope reservoirs; El Cielito Reservoir erosion control and hardscape improvements; Vic Trace SCADA upgrades; Tunnel Reservoir Fuel Tank Replacement, and baseline maintenance for the reservoirs.



Specific Plans or Policies Relating to this Project:

Maintenance of the City's Distribution Reservoirs is necessary to ensure safe drinking water supplies in compliance with State drinking water standards.

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Water	<input checked="" type="checkbox"/>	450,000	350,000	420,000	100,000	100,000	350,000	\$1,770,000
Total		450,000	350,000	420,000	100,000	100,000	350,000	\$1,770,000

Estimated Operating Impact:

New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce	0.0	Maintain	0.0	Increase	0.0		

Public Works Water

Groundwater Supply Program

Description:

Rehabilitation of Alameda, and Hope Wells; SCADA, raw water line for High School Well, and drill a new downtown well.

Specific Plans or Policies Relating to this Project:

The City's ground water is an important water supply for the community as identified in the City's Long-term Water Supply Plan.

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Water	<input checked="" type="checkbox"/>	495,000	1,068,010	725,000	1,118,000	1,600,000	300,000	\$5,306,010
SRF Loan	<input type="checkbox"/>	0	0	0	0	0	0	\$0
Total		495,000	1,068,010	725,000	1,118,000	1,600,000	300,000	\$5,306,010

Estimated Operating Impact:

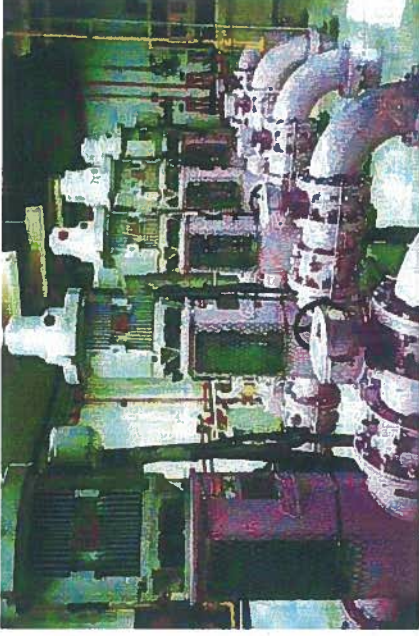
New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce	0.0	Maintain	0.0	Increase	0.0		

Public Works Water

Recycled Water Program

Description:

The Recycled Water Program includes: rehabilitation of the tertiary filters at El Estero; installation of SCADA at the La Mesa Recycled Water Booster Station, the Cottage Hospital recycled water main, implementation of conservation retrofits for City facilities, and baseline maintenance for the recycled water system.



Specific Plans or Policies Relating to this Project:

The Recycled Water Program is an important part of the City's Long-term Water Supply Plan.

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
Water	<input checked="" type="checkbox"/>	225,000	2,125,000	125,000	125,000	125,000	375,000	\$3,100,000
Total		225,000	2,125,000	125,000	125,000	125,000	375,000	\$3,100,000

Estimated Operating Impact:

New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce	0.0	Maintain	0.0	Increase	0.0		

Water Facilities Corporation Yard Well Replacement

Description:

Corporation Yard Well Replacement project.



Specific Plans or Policies Relating to this Project:

Groundwater wells are an important part of the City's Long-term Water Supply Plan.

Capital Costs:

Funding Sources	Funded	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	Total
SRF Loan	<input type="checkbox"/>	2,500,000	0	0	0	0	0	\$2,500,000
Total		2,500,000	0	0	0	0	0	\$2,500,000

Estimated Operating Impact:

New Facility	<input type="checkbox"/>	Facility Upgrade	<input checked="" type="checkbox"/>	Facility Replacement	<input type="checkbox"/>	Facility Expansion	<input type="checkbox"/>
Reduce	0.0	Maintain	0.0	Increase	0.0		