



2014-2015 CAPITAL BUDGET

**2015-2019 CAPITAL
IMPROVEMENT PROGRAM**

STORM
SEWER SYSTEM

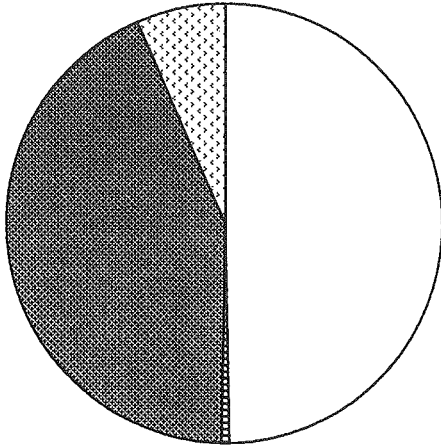


**STORM
SEWER SYSTEM**

STORM SEWER SYSTEM

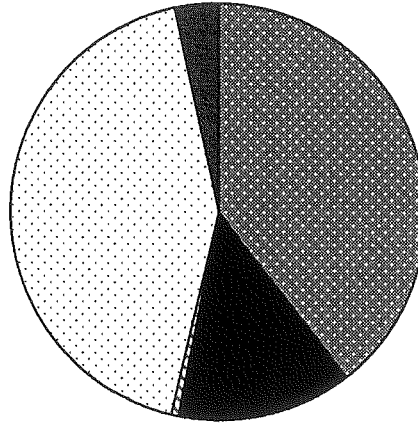
2015-2019 Capital Improvement Program

2014-2015 Proposed
Source of Funds



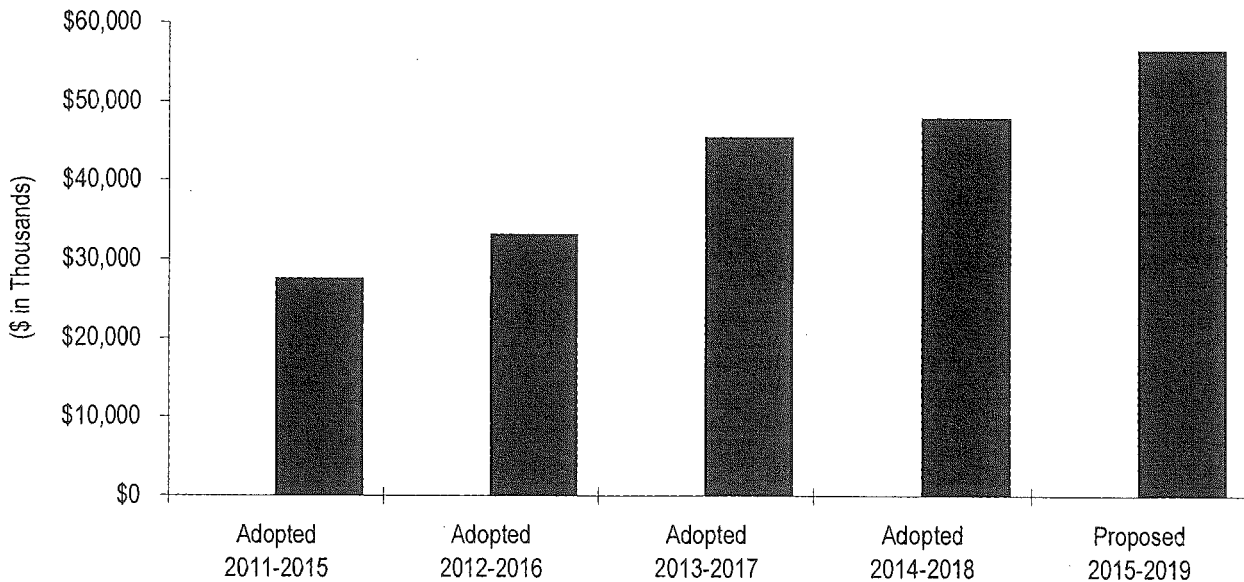
- Beginning Fund Balance
- ▨ Taxes, Fees, and Charges
- ▩ Loans and Transfers
- ▤ Interest and Miscellaneous

2014-2015 Proposed
Use of Funds



- ▩ Construction
- Non-Construction
- ▤ Loans and Transfers
- ▨ Reserves
- Ending Fund Balance

CIP History



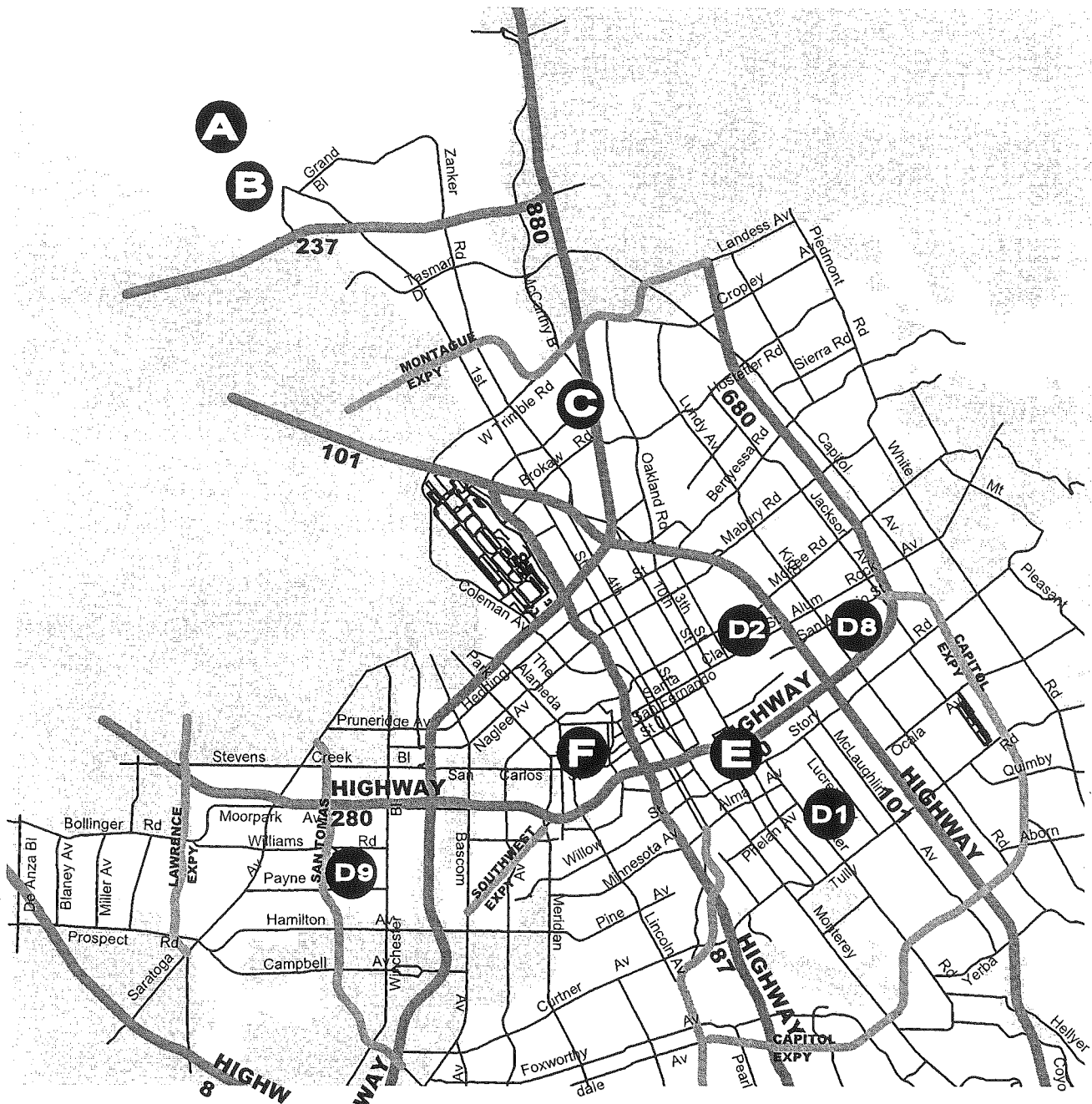
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Storm Sewer System

2015-2019 Proposed Capital Improvement Program

North

- A) Alviso Pump Station
- B) Alviso Storm Network Infiltration Control
- C) Charcot Storm Pump Station
- D) Large Trash Capture Devices (1, 2, 8, 9)
- E) Martha Gardens Green Alley
- F) Park Ave. Green Street



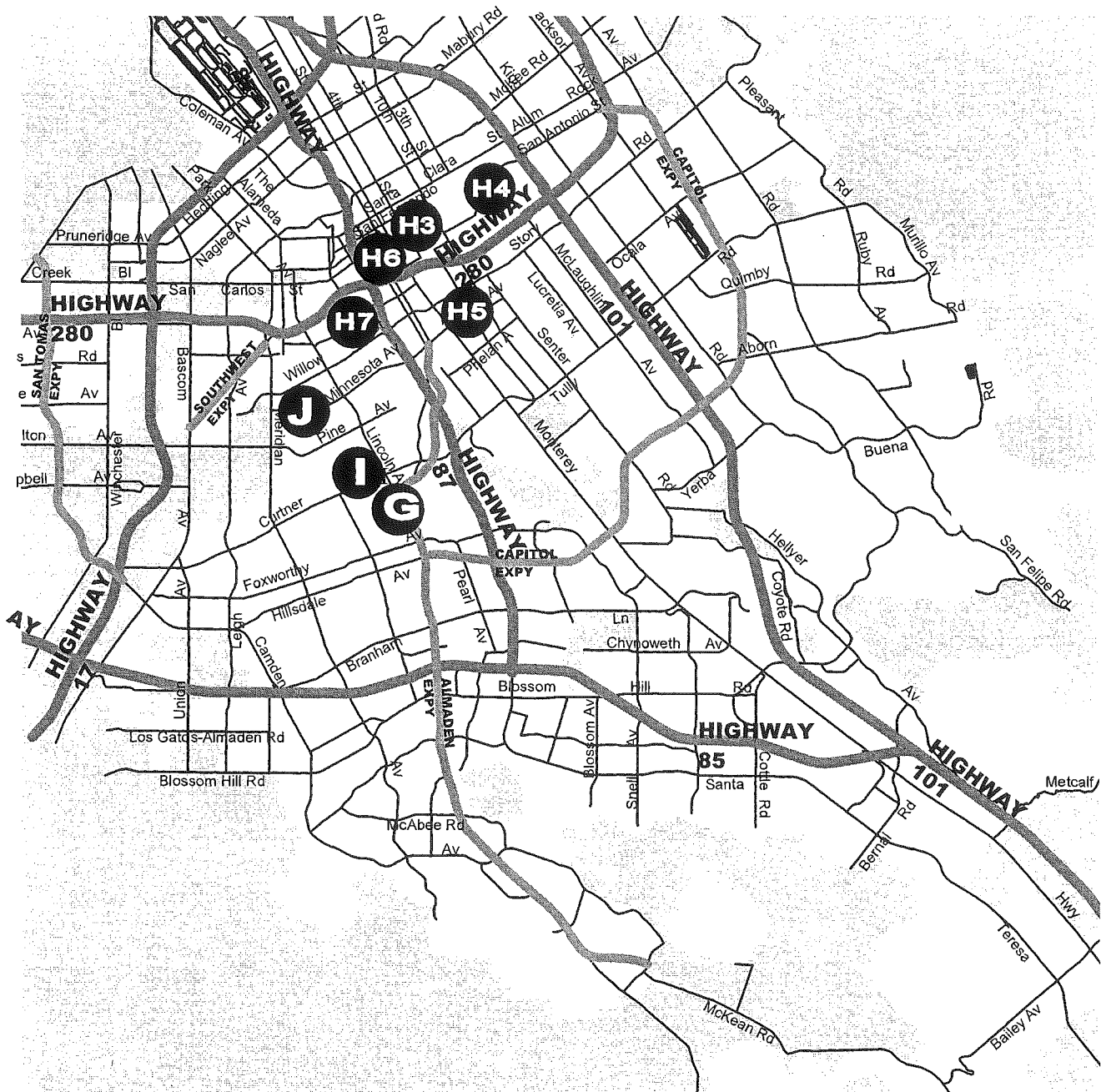
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Storm Sewer System

2015-2019 Proposed Capital Improvement Program

South

- G) Almaden - Canoas Storm Sewer Improvements
- H) Large Trash Capture Devices (3, 4, 5, 6, 7)
- I) Madrona Ave. Storm Replacement
- J) Willow Glen - Guadalupe, Phase III



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Storm Sewer System

2015-2019 Proposed Capital Improvement Program

Overview

INTRODUCTION

The Storm Sewer System of the City of San José consists of approximately 1,170 miles of sewer mains and 29 stormwater pump stations. The Storm Sewer System, which is separate from the Sanitary Sewer System, collects storm water and conveys it to nearby creeks and rivers. Most of the stormwater in San José flows from south to north into the Guadalupe River or Coyote Creek. The City shares responsibility for handling stormwater runoff with the Santa Clara Valley Water District and the U.S. Army Corps of Engineers. The City is responsible for designing, constructing, and maintaining facilities for conveyance of stormwater runoff within the City's Urban Service Area to adjacent stream channels in accordance with the available budget and City Council priorities. Most design and construction of flood control facilities and the modification and maintenance of stream channels is the responsibility of the Santa Clara Valley Water District and the U.S. Army Corps of Engineers.

STORM SEWER SYSTEM PUBLIC INFRASTRUCTURE	
MILES OF STORM MAINS	
Smaller than 12" in diameter	80
12" to 18" in diameter	530
Over 18" in diameter	560
NUMBER OF INLETS	34,360
NUMBER OF MANHOLES	26,240
NUMBER OF PUMP STATIONS	29

The 2015-2019 Proposed Capital Improvement Program (CIP) provides funding of \$56.4 million, of which \$27.7 million is allocated in 2014-2015 for master planning and improvements of the Storm Sewer System. This program is part of the Environmental and Utility Services City Service Area (CSA) and supports the following outcome: *Reliable Utility Infrastructure*.

PROGRAM PRIORITIES AND OBJECTIVES

The primary objective of the Storm Sewer Capital Program is to plan and construct improvements to the storm sewer collection system that reduce the risk of flooding and prevent property damage while managing the quality of stormwater runoff. Area-wide drainage capacity projects are identified and developed through the Storm Sewer Master Plan, which is based on the Envision San José 2040 General Plan (General Plan). The General Plan provides a guide for the Storm Capital Improvement Program to align public storm infrastructure investments with San José's plans for future growth in addition to identifying capacity constraints in the existing system. Projects addressing localized ponding and flooding are generally identified through inspection and maintenance activities.

The Proposed CIP is structured to balance the master planning effort with construction projects that address known areas of ponding and flooding. The 2015-2019 Proposed CIP allocates \$6.8 million to the master planning effort and flow monitoring activities, and \$30.7 million to construction projects.

SOURCES OF FUNDING

The primary funding sources for the 2015-2019 Proposed Storm Sewer System CIP are transfers from the Storm Sewer Operating Fund and Storm Sewer Connection Fees. Among these revenues,

Storm Sewer System

2015-2019 Proposed Capital Improvement Program

Overview

SOURCES OF FUNDING

the Storm Sewer Operating Fund transfer continues to be the largest funding source for the program.

The transfers in the 2015-2019 Proposed CIP from the Storm Sewer Operating Fund (\$39.9 million) reflect a increase of \$1.9 million (5.1%) compared to the \$38.0 million transfer programmed in the 2014-2018 Adopted CIP. The Proposed CIP assumes that no rate increase will be needed for the Storm Sewer Operating Fund for 2014-2015. However, this will be reassessed in the CIP out years upon completion of the initial recommendations from the Storm Sewer Master Plan as described in further detail in the Program Highlights section.

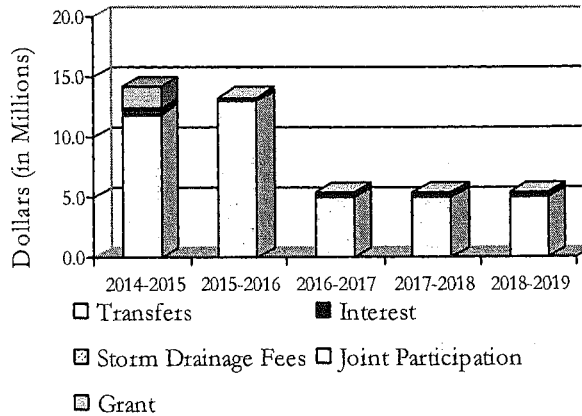
The Proposed CIP includes a California Proposition 84 Stormwater Grant in the amount of \$1.8 million in 2014-2015. This grant will fund the design and construction of the Park Avenue Green Avenue and Martha Gardens Green Alley projects.

The Storm Drainage Fee is charged to developers as a connection fee for any project that will discharge storm water, surface water, or ground water runoff into the City's storm sewer system. The fee is based on the use and size of the parcel being developed. These activities are projected to remain consistent in the 2015-2019 Proposed CIP as the local housing market continues to recover from the recession. Therefore, Storm Drainage Fee revenues remain at \$750,000 in the 2015-2019 Proposed CIP.

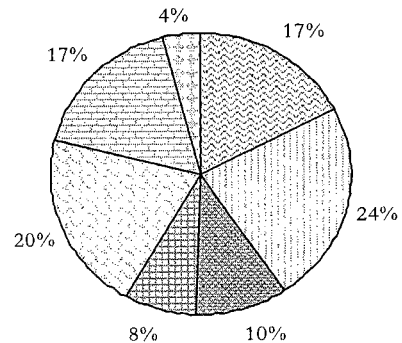
PROGRAM HIGHLIGHTS

Projects in this Proposed CIP include the installation of technology and infrastructure to maximize the efficiency of the storm sewer collection system and the reliability of storm pump stations, manage the quality of storm water runoff, and to minimize ponding and flooding in residential areas.

Summary of Revenues



2015-2019 Storm Sewer Expenditures
\$56.4 million



- Master Planning
- Area Flooding Projects
- Local Flooding Projects
- Rehabilitation Projects
- Large Trash Capture Devices
- Other
- Ending Fund Balance

Storm Sewer System

2015-2019 Proposed Capital Improvement Program

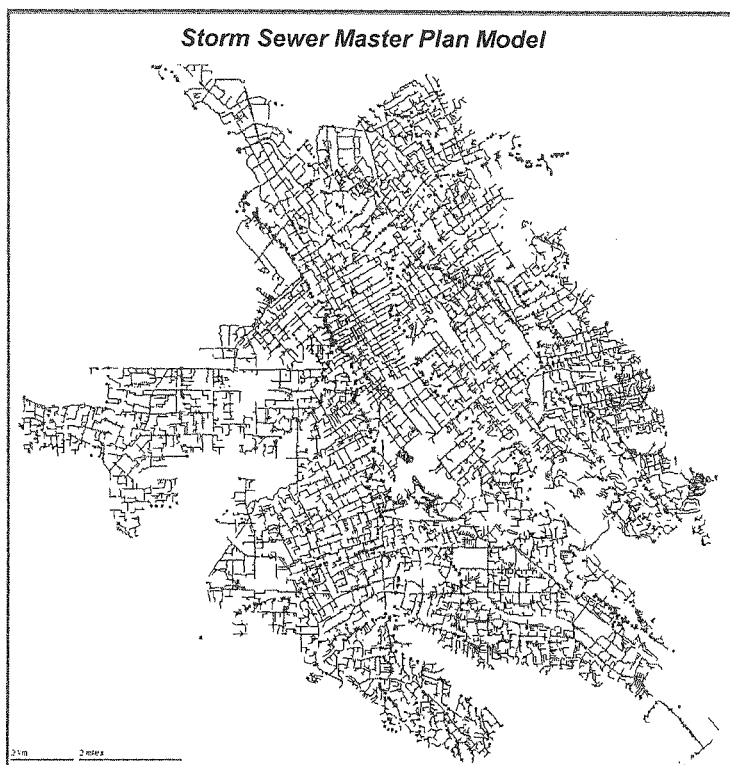
Overview

PROGRAM HIGHLIGHTS

Storm Sewer Master Plan

The Storm Sewer Master Plan is a comprehensive effort to identify and prioritize needed capacity-related improvements to the storm sewer system by analyzing current conditions and the anticipated future land use developments in the General Plan. The Storm Sewer Master Plan will also integrate water quality considerations wherever possible to capture pollutants prior to discharge into waterways. This effort will be utilized as the framework for development of future Storm CIPs. A majority of the existing storm sewer system can only effectively convey the storm run-off from a one to a three-year storm event. The improvements recommended by the master plan will be designed to convey storm run-off for a 10-year storm event. Designing for a 10-year storm event is commonly used in the area as the standard to adequately provide flood protection.

The master planning effort began in 2011 with the initial focus in the North San José Development Policy Area. Since then, the master plan has been expanded to analyze the system city-wide. The initial recommendations for the North San José area are expected to be completed in spring 2014. In August 2013, City awarded a master planning consultant services master agreement to start the city-wide storm sewer master planning effort. The city-wide master plan study is anticipated to be completed in late 2016 with a total allocation of \$6.8 million for the 2015-2019 Proposed CIP, which includes \$5.4 million for the master plan and \$1.5 million for flow monitoring activities. Additionally, a \$3.0 million reserve has been programmed in the 2015-2019 CIP for future city-wide



storm sewer projects. A key component contributing to the accuracy of the master plan is evaluation and confirmation of the system performance during rain events. This confirmation is accomplished through the flow monitoring program that installs flow metering equipment at strategic locations throughout the system to capture actual flow data during rain events.

Storm Sewer System

2015-2019 Proposed Capital Improvement Program

Overview

PROGRAM HIGHLIGHTS

Funding totaling \$30.7 million is programmed in this Proposed CIP for the design and construction of projects, the majority of which are grouped into the categories below.

Area Flooding and Drainage

Area Flooding projects are those that prevent flooding over larger areas or drainage basins by constructing large diameter storm sewers or new pump stations that are identified through past area specific capacity studies and validated through the ongoing master plan effort. Funding totaling \$13.1 million is allocated in this Proposed CIP for area wide projects. The largest projects in this category include the Charcot Storm Pump Station (\$1.5 million), Willow Glen-Guadalupe Phase III Storm Improvements (\$1.4 million), and Alviso Storm Pump Station (\$0.5 million allocated in 2014-2015 for completion of the preliminary design and \$9.0 million held in reserve for final design and construction). In addition to the reserved funding, approximately \$18.5 million will be needed to upsize storm sewer pipes in the Alviso area and connect to the pump station, bringing the total estimated cost for the Alviso Pump Station to \$30.0 million. The amount of additional funding will be refined upon completion of the initial Master Plan effort for the North San José Development Policy Area in 2014, which will provide additional guidance as to the scope of the piping upgrades.

Local Flooding

Localized ponding and flooding projects can be addressed by installing new and/or relocated storm inlets, laterals, and the reconstruction of displaced flow lines or minor extensions of local storm sewer systems that are generally identified through reoccurring maintenance activities at specific locations. Funding totaling \$5.7 million is programmed for rehabilitation projects which include: Storm Sewer Improvements-Special Corridors (\$2.8 million), Minor Neighborhood Storm Sewer Improvements (\$2.7 million), and Martha Gardens Green Alley Project (\$0.2 million).

Rehabilitation of Existing Facilities

The primary focus of rehabilitation projects is to address aging mechanical components at pump stations and outfall structures. These components are either operating inefficiently or reaching the industry standard for useful life. Funding totaling \$4.4 million is programmed for rehabilitation projects which include: Outfall Rehabilitation-Capital (\$2.4 million) and Storm Pump Station Rehabilitation and Replacement (\$2.0 million).

Urgent Flood Prevention and Repair

Funding totaling \$3.6 million for Urgent Flood Prevention and Repair Projects will be used to address issues which may fall into any of the above categories. These projects are developed in the course of the year in response to urgent needs.

Storm Sewer System

2015-2019 Proposed Capital Improvement Program Overview

PROGRAM HIGHLIGHTS

Stormwater Quality Improvement Projects



*Installation of Large Trash Capture Device on
7th Street*

Provision C.10 of the Municipal Regional Stormwater Permit (MRP) regulates the implementation of control measures and other actions required to reduce trash loads from the storm sewer system into the City's receiving waters. One of the control measures required by the provision is the installation of trash capture devices near locations identified as high-trash impacted locations. Funding totaling \$11.5 million will be used for the design and installation of large trash capture devices throughout the City to meet the Municipal Regional Permit Provision C.10 trash reduction requirements.

MAJOR CHANGES FROM THE 2014-2018 ADOPTED CIP

Major changes from the 2014-2018 Adopted CIP are summarized below.

- Funding in the amount of \$11.5 million for the design and installation of large trash capture devices throughout the City to meet the Municipal Regional Stormwater Permit Provision C.10 trash reduction requirements;
- The Gold Street Storm Pump Station Force Main Project was incorporated into the Alviso Storm Pump Station Project;
- Cahill Pump Station, located along Santa Clara Street west of Cahill Street, was relinquished by Caltrans to the City in July 2013, increasing the number of City operated and maintained pump stations from 28 to 29; and
- The \$1.5 million for the Charcot Pump Station was shifted from 2013-2014 to 2014-2015 to identify a suitable site for the pump station.
- Funding in the amount of \$3.0 million for a Storm Sewer Master Plan Reserve for future projects identified by the Storm Sewer Master Plan.

Storm Sewer System

2015-2019 Proposed Capital Improvement Program
Overview

OPERATING BUDGET IMPACT

The Department of Transportation maintains the City's Storm Sewer System. There are no additional operating and maintenance costs associated with the projects in the 2015-2019 Proposed CIP.

2014-2015 CAPITAL BUDGET

2015-2019 CAPITAL IMPROVEMENT PROGRAM

STORM SEWER SYSTEM

SOURCE OF FUNDS

USE OF FUNDS

SOURCE AND USE OF FUNDS STATEMENTS

2014-2015 USE OF FUNDS BY FUNDING SOURCE

The Source of Funds displays the capital revenues by funding source for each year of the Five-Year Capital Improvement Program. The Use of Funds displays the capital expenditures by line-item for each year of the five-year period. The Source and Use of Funds Statements display major categories of capital revenues and expenditures for each year over the five-year period. The 2014-2015 Use of Funds by Funding Source displays the funding sources for the capital expenditures that are budgeted in 2014-2015.

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Source of Funds (Combined)

SOURCE OF FUNDS	Estimated 2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	5-Year Total
<u>Storm Drainage Fee Fund (413)</u>							
Beginning Fund Balance	532,672	243,121	139,121	142,121	145,121	149,121	243,121 *
Revenue from Other Agencies:							
<u>Other Agencies</u>							
- Joint Participation with the City of Cupertino	4,000	4,000	4,000	4,000	4,000	4,000	20,000
Taxes, Fees and Charges:							
<u>Storm Drainage Fees</u>	150,000	150,000	150,000	150,000	150,000	150,000	750,000
Interest Income	3,000	3,000	3,000	3,000	4,000	4,000	17,000
Reserve for Encumbrances	38,449						
Total Storm Drainage Fee Fund	728,121	400,121	296,121	299,121	303,121	307,121	1,030,121 *
<u>Storm Sewer Capital Fund (469)</u>							
Beginning Fund Balance	10,390,472	13,580,794	764,794	985,794	1,004,794	1,456,794	13,580,794 *
Revenue from Other Agencies:							
<u>State Government</u>							
- California Proposition 84 Stormwater Grant		1,804,000					1,804,000
Contributions, Loans and Transfers from:							
<u>Special Funds</u>							
- Transfer from Storm Sewer Operating Fund (446)	18,000,000	11,930,000	13,000,000	5,000,000	5,000,000	5,000,000	39,930,000
Interest Income	26,000	25,000	15,000	15,000	16,000	16,000	87,000
Reserve for Encumbrances	2,982,322						
Total Storm Sewer Capital Fund	31,398,794	27,339,794	13,779,794	6,000,794	6,020,794	6,472,794	55,401,794 *

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Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Source of Funds (Combined)

<u>SOURCE OF FUNDS</u> (CONT'D.)	Estimated 2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	5-Year Total
TOTAL SOURCE OF FUNDS	32,126,915	27,739,915	14,075,915	6,299,915	6,323,915	6,779,915	56,431,915 *

* The 2015-2016 through 2018-2019 Beginning Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Use of Funds (Combined)

<u>USE OF FUNDS</u>	<u>Estimated 2013-2014</u>	<u>2014-2015</u>	<u>2015-2016</u>	<u>2016-2017</u>	<u>2017-2018</u>	<u>2018-2019</u>	<u>5-Year Total</u>
<u>Construction Projects</u>							
Gateway East Storm Sewer Improvements	47,000						
Lower Bird Avenue Storm Sewer Improvements	780,000						
Madrona Avenue Storm Sewer Improvements	336,000	10,000					10,000
Public Art	234,000	69,000	96,000	20,000	21,000	21,000	227,000
Upper Bird Avenue Storm Sewer Improvements	725,000						
1. Almaden-Canoas Storm Sewer Improvements	202,000	600,000					600,000
2. Alviso Storm Network Infiltration Control	659,000	45,000					45,000
3. Alviso Storm Pump Station	1,500,000	500,000					500,000
4. Charcot Storm Pump Station at Coyote Creek		1,500,000					1,500,000
5. Large Trash Capture Devices		3,628,000	7,852,000				11,480,000
6. Martha Gardens Green Alley	1,273,000	166,000					166,000
7. Minor Neighborhood Storm Sewer Improvements	1,469,000	300,000	600,000	600,000	600,000	600,000	2,700,000
8. Outfall Rehabilitation - Capital	742,000	400,000	500,000	500,000	500,000	500,000	2,400,000
9. Park Avenue Green Avenue		1,206,000					1,206,000
10. Storm Pump Station Rehabilitation and Replacement	1,789,000	400,000	400,000	400,000	500,000	300,000	2,000,000
11. Storm Sewer Improvements - Special Corridors	1,428,000	300,000	400,000	600,000	750,000	750,000	2,800,000
12. Urgent Flood Prevention and Repair Projects	1,774,000	400,000	800,000	800,000	800,000	800,000	3,600,000

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Use of Funds (Combined)

USE OF FUNDS (CONT'D.)	Estimated 2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	5-Year Total
Construction Projects							
13. Willow Glen-Guadalupe, Phase III	300,000	1,445,000					1,445,000
Total Construction Projects	13,258,000	10,969,000	10,648,000	2,920,000	3,171,000	2,971,000	30,679,000
Non-Construction							
General Non-Construction							
Capital Program and Public Works Department Support Service Costs	874,000	570,000	575,000	575,000	188,000	190,000	2,098,000
Infrastructure Management System	18,000	9,000	9,000	9,000	9,000	9,000	45,000
14. Fee Administration	25,000	25,000	30,000	30,000	30,000	30,000	145,000
15. Flow Monitoring Program	1,037,000	654,000	254,000	254,000	154,000	154,000	1,470,000
16. Permit Review and Inspection for Outside Agencies	70,000	50,000	25,000	25,000	25,000	25,000	150,000
17. Preliminary Engineering	180,000	185,000	185,000	160,000	160,000	160,000	850,000
18. Program Management	150,000	150,000	150,000	150,000	150,000	150,000	750,000
19. Storm Sewer Master Plan - City-wide	2,644,000	2,100,000	950,000	900,000	700,000	700,000	5,350,000
Total General Non-Construction	4,998,000	3,743,000	2,178,000	2,103,000	1,416,000	1,418,000	10,858,000
Contributions, Loans and Transfers to General Fund							
Transfer to the General Fund: Human Resources/Payroll System		3,000					3,000
Transfer to the General Fund: Interest Income	5,000	3,000	1,000	1,000	1,000	1,000	7,000
Total Contributions, Loans and Transfers to General Fund	5,000	6,000	1,000	1,000	1,000	1,000	10,000

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Use of Funds (Combined)

USE OF FUNDS (CONT'D.)	Estimated 2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	5-Year Total
<u>Non-Construction</u>							
Contributions, Loans and Transfers to Special Funds							
Transfer to the City Hall Debt Service Fund	42,000	118,000	121,000	126,000	130,000	141,000	636,000
Total Contributions, Loans and Transfers to Special Funds	42,000	118,000	121,000	126,000	130,000	141,000	636,000
Reserves							
Alviso Storm Pump Station Reserve		9,000,000					9,000,000
Storm Sewer Master Plan Reserve		3,000,000					3,000,000
Total Reserves		12,000,000					12,000,000
Total Non-Construction	5,045,000	15,867,000	2,300,000	2,230,000	1,547,000	1,560,000	23,504,000
Ending Fund Balance	13,823,915	903,915	1,127,915	1,149,915	1,605,915	2,248,915	2,248,915*
TOTAL USE OF FUNDS	32,126,915	27,739,915	14,075,915	6,299,915	6,323,915	6,779,915	56,431,915*

* The 2014-2015 through 2017-2018 Ending Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Storm Drainage Fee Fund (413)

Statement of Source and Use of Funds

	Estimated 2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	5-Year Total
<u>SOURCE OF FUNDS</u>							
Beginning Fund Balance *	532,672	243,121	139,121	142,121	145,121	149,121	243,121
Interest Income	3,000	3,000	3,000	3,000	4,000	4,000	17,000
Reserve for Encumbrances	38,449						
Revenue from Other Agencies	4,000	4,000	4,000	4,000	4,000	4,000	20,000
Taxes, Fees and Charges	150,000	150,000	150,000	150,000	150,000	150,000	750,000
TOTAL SOURCE OF FUNDS	728,121	400,121	296,121	299,121	303,121	307,121	1,030,121
<u>USE OF FUNDS</u>							
Construction Projects	88,000	50,000	50,000	50,000	50,000	50,000	250,000
Contributions, Loans and Transfers	5,000	4,000	2,000	2,000	2,000	2,000	12,000
Non-Construction	392,000	207,000	102,000	102,000	102,000	102,000	615,000
Reserves							
Ending Fund Balance **	243,121	139,121	142,121	145,121	149,121	153,121	153,121
TOTAL USE OF FUNDS	728,121	400,121	296,121	299,121	303,121	307,121	1,030,121

* The 2015-2016 through 2018-2019 Beginning Fund Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

** The 2014-2015 through 2017-2018 Ending Fund Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Storm Sewer Capital Fund (469)

Statement of Source and Use of Funds

	Estimated 2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	5-Year Total
<u>SOURCE OF FUNDS</u>							
Beginning Fund Balance *	10,390,472	13,580,794	764,794	985,794	1,004,794	1,456,794	13,580,794
Contributions, Loans and Transfers	18,000,000	11,930,000	13,000,000	5,000,000	5,000,000	5,000,000	39,930,000
Interest Income	26,000	25,000	15,000	15,000	16,000	16,000	87,000
Reserve for Encumbrances	2,982,322						
Revenue from Other Agencies		1,804,000					1,804,000
TOTAL SOURCE OF FUNDS	31,398,794	27,339,794	13,779,794	6,000,794	6,020,794	6,472,794	55,401,794
<u>USE OF FUNDS</u>							
Construction Projects	13,170,000	10,919,000	10,598,000	2,870,000	3,121,000	2,921,000	30,429,000
Contributions, Loans and Transfers	42,000	120,000	120,000	125,000	129,000	140,000	634,000
Non-Construction	4,606,000	3,536,000	2,076,000	2,001,000	1,314,000	1,316,000	10,243,000
Reserves		12,000,000					12,000,000
Ending Fund Balance **	13,580,794	764,794	985,794	1,004,794	1,456,794	2,095,794	2,095,794
TOTAL USE OF FUNDS	31,398,794	27,339,794	13,779,794	6,000,794	6,020,794	6,472,794	55,401,794

* The 2015-2016 through 2018-2019 Beginning Fund Balances are excluded from the FIVE-YEAR TOTAL SOURCE OF FUNDS to avoid multiple counting of the same funds.

** The 2014-2015 through 2017-2018 Ending Fund Balances are excluded from the FIVE-YEAR TOTAL USE OF FUNDS to avoid multiple counting of the same funds.

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
2014-2015 Use of Funds by Funding Source

	(413) Storm Drainage Fee Fund	(469) Storm Sewer Capital Fund	Total
TOTAL RESOURCES	400,121	27,339,794	27,739,915
<u>Construction Projects</u>			
		10,000	10,000
		69,000	69,000
1. Almaden-Canoas Storm Sewer Improvements		600,000	600,000
2. Alviso Storm Network Infiltration Control		45,000	45,000
3. Alviso Storm Pump Station		500,000	500,000
4. Charcot Storm Pump Station at Coyote Creek		1,500,000	1,500,000
5. Large Trash Capture Devices		3,628,000	3,628,000
6. Martha Gardens Green Alley		166,000	166,000
7. Minor Neighborhood Storm Sewer Improvements		300,000	300,000
8. Outfall Rehabilitation - Capital		400,000	400,000
9. Park Avenue Green Avenue		1,206,000	1,206,000
10. Storm Pump Station Rehabilitation and Replacement		400,000	400,000
11. Storm Sewer Improvements - Special Corridors		300,000	300,000
12. Urgent Flood Prevention and Repair Projects	50,000	350,000	400,000
13. Willow Glen-Guadalupe, Phase III		1,445,000	1,445,000

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
2014-2015 Use of Funds by Funding Source

	(413) Storm Drainage Fee Fund	(469) Storm Sewer Capital Fund	Total
Construction Projects			
Total Construction Projects	50,000	10,919,000	10,969,000
Non-Construction			
General Non-Construction			
Capital Program and Public Works	22,000	548,000	570,000
Department Support Service Costs		9,000	9,000
Infrastructure Management System			
14. Fee Administration	25,000		25,000
15. Flow Monitoring Program		654,000	654,000
16. Permit Review and Inspection for Outside Agencies		50,000	50,000
17. Preliminary Engineering		185,000	185,000
18. Program Management		150,000	150,000
19. Storm Sewer Master Plan - City-wide	160,000	1,940,000	2,100,000
Total General Non-Construction	207,000	3,536,000	3,743,000
Contributions, Loans and Transfers to General Fund			
Transfer to the General Fund: Human Resources/Payroll System		3,000	3,000
Transfer to the General Fund: Interest Income	3,000		3,000

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
2014-2015 Use of Funds by Funding Source

	(413) Storm Drainage Fee Fund	(469) Storm Sewer Capital Fund	Total
<u>Non-Construction</u>			
Contributions, Loans and Transfers to General Fund			
Total Contributions, Loans and Transfers to General Fund	3,000	3,000	6,000
Contributions, Loans and Transfers to Special Funds			
Transfer to the City Hall Debt Service Fund	1,000	117,000	118,000
Total Contributions, Loans and Transfers to Special Funds	1,000	117,000	118,000
Reserves			
Alviso Storm Pump Station Reserve		9,000,000	9,000,000
Storm Sewer Master Plan Reserve		3,000,000	3,000,000
Total Reserves		12,000,000	12,000,000
<u>Total Non-Construction</u>	211,000	15,656,000	15,867,000
Ending Fund Balance	139,121	764,794	903,915
TOTAL USE OF FUNDS	400,121	27,339,794	27,739,915



2014-2015 CAPITAL BUDGET

2015-2019 CAPITAL IMPROVEMENT PROGRAM



STORM SEWER SYSTEM

DETAIL OF CONSTRUCTION PROJECTS

DETAIL OF NON-CONSTRUCTION PROJECTS

The Detail of Construction Projects section provides information on the individual construction projects with funding in 2014-2015. The Detail of Non-Construction Projects section is abbreviated and provides information on the individual non-construction project, with funding in 2014-2015. On the Use of Funds statement, these projects are numbered.

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Construction Projects

1. Almaden-Canoas Storm Sewer Improvements

CSA: Environmental and Utility Services **Initial Start Date:** 3rd Qtr. 2013
CSA Outcome: Reliable Utility Infrastructure **Revised Start Date:**
Department: Public Works **Initial Completion Date:** 2nd Qtr. 2015
Council District: 6 **Revised Completion Date:**
Location: Canoas Garden area bounded by Almaden Expressway, Ironwood Drive and Blue Jay Drive
Description: This project will reconstruct approximately 1,000 feet of storm sewer to cross connect two parallel storm systems. This will create additional capacity and redundancy to the systems in this flood prone area.
Justification: This project will improve drainage and sewer capacity.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Development		45	45								45
Design		150	150								150
Bid & Award		7	7								7
Construction				574					574		574
Post Construction				26					26		26
TOTAL		202	202	600					600		802

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	202	202	600						600		802
TOTAL	202	202	600						600		802

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2015-2019 CIP - Decrease of \$100,000 due to project scope adjustment to align with the record drawings of the existing system and area topography.

Notes:

FY Initiated: 2013-2014 **Appn. #:** 7622
Initial Project Budget: \$902,000 **USGBC LEED:** N/A

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Construction Projects

2. Alviso Storm Network Infiltration Control

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2011
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2012
Council District:	4	Revised Completion Date:	2nd Qtr. 2015
Location:	Alviso		

Description: This project will reduce infiltration from ground water sources into the Alviso storm sewer network. All storm sewers greater than 27-inches in diameter, which is approximately 9,000 feet, will be assessed for infiltration. Sewers with infiltration will be rehabilitated.

Justification: This project will maximize the efficiency of the Alviso storm sewer network by reducing the need for the Gold Street Pump Station to continuously pump infiltrated ground water into the Guadalupe River. This will extend the life of the pump station and increase the pipe capacity for actual stormwater runoff.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Development		6	19	19							25
Design			77	77							77
Bid & Award			7	7							7
Construction		631	556	556	41				41		1,228
Post Construction					4				4		4
TOTAL		637	659	659	45				45		1,341

FUNDING SOURCE SCHEDULE (000'S)											
Storm Sewer Capital Fund		637	659	659	45				45		1,341
TOTAL		637	659	659	45				45		1,341

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2014-2018 CIP - Increase of \$201,000 due to refinement of project scope to include all storm sewers greater than 27-inches in diameter, which is approximately 9,000 feet.

2015-2019 CIP - Decrease of \$60,000 due to project scope change resulting in the rehabilitation of fewer pipes than originally anticipated based on field survey information.

Notes:

FY Initiated:	2011-2012	Appn. #:	7351
Initial Project Budget:	\$1,200,000	USGBC LEED:	N/A

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Construction Projects

3. Alviso Storm Pump Station

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2013
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2014
Council District:	4	Revised Completion Date:	2nd Qtr. 2015
Location:	Alviso		

Description: This project will determine the feasibility and complete initial design of either constructing a new storm pump station or upgrading the existing Gold Street Storm pump station to provide the Alviso area with flood protection from a 10-year storm event.

Justification: This project will provide the necessary storm sewer capacity to protect the Alviso area from damage during a 10-year storm event.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Development		22	22								22
Property & Land		55	55								55
Design		1,398	1,423	500					500		1,923
Bid & Award		25									
TOTAL		1,500	1,500	500					500		2,000

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	1,500	1,500	500					500		2,000
TOTAL	1,500	1,500	500					500		2,000

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2015-2019 CIP - Increase of \$500,000 due to the inclusion of the "Gold Street Storm Pump Station Force Main" project into this project.

Notes:

As part of the 2014-2018 CIP, the Initial Start Date and Initial End Date refer to the project feasibility and initial design. Funding for final design and construction remain in the Alviso Storm Pump Station Reserve and will be used in future years.

FY Initiated:	2013-2014	Appn. #:	7623
Initial Project Budget:	\$1,500,000	USGBC LEED:	N/A

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Construction Projects

4. Charcot Storm Pump Station at Coyote Creek

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2013
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2014
Council District:	4	Revised Completion Date:	2nd Qtr. 2015
Location:	Charcot Avenue at Coyote Creek		

Description: This project allocates funding for a new pump station at Charcot Avenue by Coyote Creek that will have a capacity of approximately 300 cubic feet per second. Current funding will support the design phase of the project. Additional funding will need to be identified for the construction of the pump station.

Justification: This project will provide the necessary storm sewer capacity to protect the area roughly bounded by Highway 101, North First Street, Highway 880 and Charcot Road from damage during a 10-year storm event.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Development		22		22					22		22
Property & Land		55		55					55		55
Design		1,398		1,418					1,418		1,418
Bid & Award		25		5					5		5
TOTAL		1,500		1,500					1,500		1,500

FUNDING SOURCE SCHEDULE (000'S)					
Cost Elements	2013-14 Appn.	2014-15	2015-16	2016-17	2017-18
Storm Sewer Capital Fund	1,500	1,500			
TOTAL	1,500	1,500			

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

None

Notes:

Funding in 2014-2015 will be for the design of the Charcot Storm Pump Station. Construction will occur after 2015-2019 and funding will be determined later.

FY Initiated:	2013-2014	Appn. #:	7595
Initial Project Budget:	\$1,500,000	USGBC LEED:	N/A

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Construction Projects

5. Large Trash Capture Devices

CSA: Environmental and Utility Services **Initial Start Date:** 3rd Qtr. 2014
CSA Outcome: Reliable Utility Infrastructure **Revised Start Date:**
Department: Public Works **Initial Completion Date:** 2nd Qtr. 2016
Council District: City-wide **Revised Completion Date:**
Location: 7th St./Phelen Ave., Bulldog Blvd/24th Street,
William St. Park/East William St., Woodborough
Dr./Woodborough Ct., Sunset Ave./Shortridge
Ave., Pierce Ave./Almaden Ave./Balbach
St./Almaden Ave., Virginia St./Palm St., and Polk
Lane/Sunnyhaven Dr.
Description: This project includes the installation of large trash capture devices throughout the City in order to
meet the Municipal Regional Permit Provision C.10 trash reduction requirements.
Justification: This project will reduce and/or remove trash from the City's storm sewer system prior to discharging
into local water ways.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Development				256	156				412		412
Design				363	248				611		611
Bid & Award				10	10				20		20
Construction				2,999	7,380				10,379		10,379
Post Construction					58				58		58
TOTAL				3,628	7,852				11,480		11,480

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund				3,628	7,852				11,480		11,480
TOTAL				3,628	7,852				11,480		11,480

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

None

Notes:

FY Initiated: 2014-2015 **Appn. #:**
Initial Project Budget: \$11,480,000 **USGBC LEED:** N/A

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Construction Projects

6. Martha Gardens Green Alley

CSA:	Environmental and Utility Services	Initial Start Date:	2nd Qtr. 2013
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2014
Council District:	3	Revised Completion Date:	2nd Qtr. 2015

Location: Alleyways extending from Magaret Street
(Alleyway terminus at I-880) to Martha Street,
between Second and Third Streets

Description: This project will construct a drainage system using underground infiltration facilities with a permeable surface. In addition, the project will reconstruct the alleyways to prevent standing water on the road way.

Justification: This project is needed to address residents' request to improve longstanding drainage issues within the alleyways. In addition, this project will address community aesthetics, provide improved vehicular travel way, and install green stormwater infrastructure that will result in a reduction of stormwater pollutants entering local creeks and waterways. Funds in this appropriation will be utilized for the required local match for the California Proposition 84 Stormwater Grant for green stormwater improvements obtained by the Environmental Services Department.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Design	54	133	133								187
Bid & Award		35	35								35
Construction		1,085	1,085	123					123		1,208
Post Construction		20	20	43					43		63
TOTAL	54	1,273	1,273	166					166		1,493

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	54	1,273	1,273	166					166		1,493
TOTAL	54	1,273	1,273	166					166		1,493

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2014-2018 CIP - Increase of \$945,000 due to an increase in project scope related to the California Proposition 84 grant requirements.

2015-2019 CIP - Increase of \$155,000 due to project scope change, which will include the addition of access manholes, grated inlets, storm lateral, and curb and gutters to address storm water ponding.

Notes:

A portion of the California Proposition 84 Stormwater Grant (\$945,180) and a local match of \$548,000 will fund this project.

FY Initiated:	2012-2013	Appn. #:	2035
Initial Project Budget:	\$393,000	USGBC LEED:	N/A

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Construction Projects

7. Minor Neighborhood Storm Sewer Improvements

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

Description: This allocation funds minor storm drain projects, such as construction of new inlets and laterals (storm pipe connections from the inlet to the main), and the establishment of flow-lines in various neighborhoods. Resources will be allocated to address these needs as funding permits.

Justification: This allocation will provide relief for minor drainage problems on neighborhood streets and improve water quality in the runoff conducted by the system.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Development		30	30	25	30	30	30	30	145		
Design		105	105	50	90	90	90	90	410		
Bid & Award		8	8	5	8	8	8	8	37		
Construction		1,319	1,319	215	465	465	465	465	2,075		
Post Construction		7	7	5	7	7	7	7	33		
TOTAL		1,469	1,469	300	600	600	600	600	2,700		

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	1,469	1,469	300	600	600	600	600	600	2,700
TOTAL	1,469	1,469	300	600	600	600	600	600	2,700

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

FY Initiated:	Ongoing	Appn. #:	4483
Initial Project Budget:		USGBC LEED:	N/A

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Construction Projects

8. Outfall Rehabilitation - Capital

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

Description: This allocation funds the construction or rehabilitation of storm drain outfalls at various locations throughout the City. The Department of Transportation (DOT) has identified more than 250 outfalls that are missing, deteriorated, or in need of improvement to bring them to current design standards. This ongoing allocation funds the most critical outfall construction based on priorities jointly established by DOT, the Department of Public Works, and the Santa Clara Valley Water District.

Justification: This allocation will repair aging outfall structures, enhance erosion protection, and alleviate maintenance operations.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Construction Planning and Engineering		742	742	400	500	500	500	500	2,400		
TOTAL		742	742	400	500	500	500	500	2,400		

FUNDING SOURCE SCHEDULE (000'S)											
Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Storm Sewer Capital Fund		742	742	400	500	500	500	500	2,400		
TOTAL		742	742	400	500	500	500	500	2,400		

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:
N/A

Notes:
Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

FY Initiated:	Ongoing	Appn. #:	4245
Initial Project Budget:		USGBC LEED:	N/A

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Construction Projects

9. Park Avenue Green Avenue

CSA:	Environmental and Utility Services	Initial Start Date:	2nd Qtr. 2013
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	3rd Qtr. 2014
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2014
Council District:	6	Revised Completion Date:	2nd Qtr. 2015
Location:	Park Avenue between Meridian Avenue and Sunol Street		

Description: This project will install biotreatment areas along Park Avenue between Meridian Avenue and Sunol Street in order to provide stormwater treatment for this segment of Park Avenue.

Justification: This project incorporates stormwater quality treatment using biotreatment areas, a Low Impact Development (LID) practice, to capture and treat stormwater. Installation of treatment measures such as these is expected to reduce the pollutants entering our local creeks and waterways from City streets. In addition, this project will allow the Environmental Services Department to monitor the effectiveness of retrofitting an existing urban street with biotreatment areas. Funds in this appropriation will be utilized for the required local match for the California Proposition 84 Stormwater Grant for green stormwater improvements obtained by the Environmental Services Department.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Development				15					15		15
Design		106		106					106		106
Bid & Award		5		5					5		5
Construction		1,070		1,075					1,075		1,075
Post Construction		5		5					5		5
TOTAL		1,186		1,206					1,206		1,206

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund		1,186		1,206		1,206		1,206
TOTAL		1,186		1,206		1,206		1,206

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2014-2018 CIP - Increase of \$859,000 due to an increase in project scope related to the California Proposition 84 grant requirements.

Notes:

A portion of the California Proposition 84 Stormwater Grant (\$859,000) and a local match of \$347,000 will fund this project.

FY Initiated:	2012-2013	Appn. #:	7500
Initial Project Budget:	\$347,000	USGBC LEED:	N/A

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Construction Projects

10. Storm Pump Station Rehabilitation and Replacement

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

Description: This allocation funds the rehabilitation, reconstruction, or replacement of aging pump stations that require high maintenance.

Justification: Rehabilitating, redesigning, and/or replacing aging pump stations will achieve cost savings, optimize pump station performance, and enhance the efficiency of the storm system.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Development		30	30	3	3	3	3	3	15		
Design		680	680	56	56	56	56	56	280		
Bid & Award		35	35	3	3	3	3	3	15		
Construction		1,014	1,014	336	336	336	436	236	1,680		
Post Construction		30	30	2	2	2	2	2	10		
TOTAL		1,789	1,789	400	400	400	500	300	2,000		

FUNDING SOURCE SCHEDULE (000'S)									
Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total
Storm Sewer Capital Fund		1,789	1,789	400	400	400	500	300	2,000
TOTAL		1,789	1,789	400	400	400	500	300	2,000

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

FY Initiated:	Ongoing	Appn. #:	5150
Initial Project Budget:		USGBC LEED:	N/A

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Construction Projects

11. Storm Sewer Improvements - Special Corridors

CSA: Environmental and Utility Services **Initial Start Date:** Ongoing
CSA Outcome: Reliable Utility Infrastructure **Revised Start Date:**
Department: Public Works **Initial Completion Date:** Ongoing
Council District: City-wide **Revised Completion Date:**
Location: City-wide

Description: This allocation funds the investigation of ponding complaints; development of strategies to improve local drainage with the reconstruction of curbs, gutters, and other infrastructure; development of construction plans; and construction and associated management. This allocation will also provide for the Department of Public Works staff to document ponding problems that staff observes and reports, with a focus on areas with heavy pedestrian activity, such as school routes and near community centers, libraries, and other public facilities.

Justification: This allocation will help address storm water ponding within neighborhoods, which has the capacity to cause localized flooding problems and impede pedestrian accessibility.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Development		23	23	15	15	15	15	15	75		
Design		285	285	50	40	80	90	90	350		
Bid & Award		34	34	10	10	10	10	10	50		
Construction		1,063	1,063	220	330	490	630	630	2,300		
Post Construction		23	23	5	5	5	5	5	25		
TOTAL		1,428	1,428	300	400	600	750	750	2,800		

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	1,428	1,428	300	400	600	750	750	2,800
TOTAL	1,428	1,428	300	400	600	750	750	2,800

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

Project schedule dates and selected budget information are not provided due to the ongoing nature of this project. Prior to the 2012-2016 CIP, this project was titled "Storm Drainage Improvements - Special Corridors".

FY Initiated: Ongoing **Appn. #:** 5046
Initial Project Budget: **USGBC LEED:** N/A

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Construction Projects

12. Urgent Flood Prevention and Repair Projects

CSA:	Environmental and Utility Services	Initial Start Date:	Ongoing
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	Ongoing
Council District:	City-wide	Revised Completion Date:	
Location:	City-wide		

Description: This allocation funds unscheduled engineering and construction projects on an as-needed basis, including participation in cooperative projects with other agencies in support of the City's storm sewer system.

Justification: These funds provide for unanticipated projects that are necessary to ensure public health and safety.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Development		10	10	10	10	10	10	10	50		
Design		100	100	50	90	90	90	90	410		
Bid & Award		10	10	10	10	10	10	10	50		
Construction		1,654	1,654	330	690	690	690	690	3,090		
TOTAL		1,774	1,774	400	800	800	800	800	3,600		

FUNDING SOURCE SCHEDULE (000'S)										
Storm Drainage Fee Fund		88	88	50	50	50	50	50	250	
Storm Sewer Capital Fund		1,686	1,686	350	750	750	750	750	3,350	
TOTAL		1,774	1,774	400	800	800	800	800	3,600	

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

N/A

Notes:

Project schedule dates and selected budget information are not provided due to the ongoing nature of this project.

FY Initiated:	Ongoing	Appn. #:	4287
Initial Project Budget:		USGBC LEED:	N/A

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Construction Projects

13. Willow Glen-Guadalupe, Phase III

CSA:	Environmental and Utility Services	Initial Start Date:	3rd Qtr. 2013
CSA Outcome:	Reliable Utility Infrastructure	Revised Start Date:	
Department:	Public Works	Initial Completion Date:	2nd Qtr. 2016
Council District:	6	Revised Completion Date:	2nd Qtr. 2015
Location:	Bounded by Newport Avenue, Pine Avenue, Cherry, and Glenwood Avenues		

Description: This project will install approximately 2,800 linear feet of 24-inch to 42-inch diameter reinforced concrete pipe, storm drain inlets, and storm manholes along various streets in the Willow Glen neighborhood to relieve drainage problems in the area.

Justification: This project will increase the capacity of the storm sewer system to protect the area from a 10-year storm event.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Development		82	82								82
Design		209	218	116					116		334
Bid & Award		9		10					10		10
Construction				1,309					1,309		1,309
Post Construction				10					10		10
TOTAL		300	300	1,445					1,445		1,745

FUNDING SOURCE SCHEDULE (000'S)

Storm Sewer Capital Fund	300	300	1,445	1,445	1,745
TOTAL	300	300	1,445	1,445	1,745

ANNUAL OPERATING BUDGET IMPACT (000'S)

None

Major Changes in Project Cost:

2015-2019 CIP - Increase of \$45,000 due to project scope change. Based on the current design, additional storm inlets, manholes, and laterals will be added to the project.

Notes:

FY Initiated:	2013-2014	Appn. #:	7597
Initial Project Budget:	\$1,700,000	USGBC LEED:	N/A

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Non-Construction Projects

14. Fee Administration

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This allocation provides funding for the Department of Public Works Development Program to collect Storm Drainage Fees.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Program Management		25	25	25	30	30	30	30	145		
TOTAL		25	25	25	30	30	30	30	145		

FUNDING SOURCE SCHEDULE (000'S)											
Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Storm Drainage Fee Fund		25	25	25	30	30	30	30	145		
TOTAL		25	25	25	30	30	30	30	145		

Notes:
Selected budget information is not provided due to the ongoing nature of this project.
Appn. #: 5411

15. Flow Monitoring Program

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This allocation funds the installation of flow monitors and rain gauges to measure the actual amount of flow in the pipe at certain points in the storm sewer network based on a measured amount of rainfall. This information will validate the Master Plan modeling effort and design assumptions by providing actual data in order to analyze the relationship between the amount of rainfall, the amount of stormwater runoff, and the type of storm drain (inlet, pipe, pump station, outfall, etc.).

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Construction	56										56
Program Management	65	1,037	1,037	654	254	254	154	154	1,470		2,572
TOTAL	121	1,037	1,037	654	254	254	154	154	1,470		2,628

FUNDING SOURCE SCHEDULE (000'S)											
Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Storm Drainage Fee Fund		2									2
Storm Sewer Capital Fund	119	1,037	1,037	654	254	254	154	154	1,470		2,626
TOTAL	121	1,037	1,037	654	254	254	154	154	1,470		2,628

Appn. #: 5867

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Non-Construction Projects

16. Permit Review and Inspection for Outside Agencies

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This allocation funds the review and inspection of Santa Clara Valley Water District (SCVWD) projects. The City and the SCVWD do not charge one another for these services.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Program Management		70	70	50	25	25	25	25	150		
TOTAL		70	70	50	25	25	25	25	150		

FUNDING SOURCE SCHEDULE (000'S)											
Storm Drainage Fee Fund											
Storm Sewer Capital Fund		70	70	50	25	25	25	25	150		
TOTAL		70	70	50	25	25	25	25	150		

Notes:
This project was previously titled "Permit Review and Inspection for SCVWD". Selected budget information is not provided due to the ongoing nature of this project.

Appn. #: 7075

17. Preliminary Engineering

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This allocation supports preliminary engineering for projects related to the storm sewer system, including surveys and evaluations of project impacts on the storm sewer system.

EXPENDITURE SCHEDULE (000'S)											
Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Planning and Engineering		180	180	185	185	160	160	160	850		
TOTAL		180	180	185	185	160	160	160	850		

FUNDING SOURCE SCHEDULE (000'S)											
Storm Drainage Fee Fund											
Storm Sewer Capital Fund		180	180	185	185	160	160	160	850		
TOTAL		180	180	185	185	160	160	160	850		

Notes:
Selected budget information is not provided due to the ongoing nature of this project.

Appn. #: 4284

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Detail of Non-Construction Projects

18. Program Management

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This allocation provides funding for the monitoring of storm-related capital improvement projects, the floodwatch program, and the preparation of the Storm Sewer System Capital Improvement Program.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Program Management		150	150	150	150	150	150	150	750		
TOTAL		150	150	150	150	150	150	150	750		

FUNDING SOURCE SCHEDULE (000'S)

Storm Drainage Fee Fund											
Storm Sewer Capital Fund		150	150	150	150	150	150	150	750		
TOTAL		150	150	150	150	150	150	150	750		

Notes:

Selected budget information is not provided due to the ongoing nature of this project.

Appn. #: 4286

19. Storm Sewer Master Plan - City-wide

CSA: Environmental and Utility Services
CSA Outcome: Reliable Utility Infrastructure
Department: Public Works
Description: This allocation funds a master planning effort for the storm sewer system, which involves mapping and identification of existing main storm drainage trunk lines, outfalls, laterals, and other storm system facilities. The report will guide the overall system design for capacity needs. Funding beyond 2015-2016 will provide for updates to the master plan as new developments and projects add or change the infrastructure.

EXPENDITURE SCHEDULE (000'S)

Cost Elements	Prior Years	2013-14 Appn.	2013-14 Estimate	2014-15	2015-16	2016-17	2017-18	2018-19	5-Year Total	Beyond 5-Year	Project Total
Master Plan/Study		2,644	2,644	2,100	950	900	700	700	5,350		
TOTAL		2,644	2,644	2,100	950	900	700	700	5,350		

FUNDING SOURCE SCHEDULE (000'S)

Storm Drainage Fee Fund		300	300	160	50	50	50	50	360		
Storm Sewer Capital Fund		2,344	2,344	1,940	900	850	650	650	4,990		
TOTAL		2,644	2,644	2,100	950	900	700	700	5,350		

Notes:

Selected budget information is not provided due to the ongoing nature of this project.

Appn. #: 5252



2014-2015 CAPITAL BUDGET

2015-2019 CAPITAL IMPROVEMENT PROGRAM



STORM SEWER SYSTEM

SUMMARY OF PROJECTS WITH CLOSE-OUT COSTS ONLY IN 2014-2015

SUMMARY OF RESERVES

The Summary of Projects with Close-Out Costs Only in 2014-2015 includes those projects that are near completion with only minimal costs (typically inspection services and program management) to finish the project budgeted in 2014-2015. The Summary of Reserves includes all reserves budgeted within the Five-Year Capital Improvement Program. On the Use of Funds statement, the projects in these summaries are not numbered.

Storm Sewer System

2015-2019 Proposed Capital Improvement Program

Summary of Projects with Close-out Costs Only in 2014-2015

Project Name:	Madrona Avenue Storm Sewer Improvements	Initial Start Date:	3rd Qtr. 2013
5-Year CIP Budget:	\$10,000	Revised Start Date:	
Total Budget:	\$346,000	Initial End Date:	2nd Qtr. 2014
Council District:	6	Revised End Date:	2nd Qtr. 2015
USGBC LEED:	N/A		

Description: This project disconnects existing storm sewer lateral from the sanitary sewer system and installs approximately 230 linear feet of new 15-inch storm sewers.

Storm Sewer System
2015-2019 Proposed Capital Improvement Program
Summary of Reserves

Project Name:	Alviso Storm Pump Station Reserve	Initial Start Date:	N/A
5-Year CIP Budget:	\$9,000,000	Revised Start Date:	
Total Budget:	\$9,000,000	Initial End Date:	N/A
Council District:	4	Revised End Date:	
USGBC LEED:	N/A		

Description: This reserve sets aside funding for the construction and post construction phases of the Alviso Storm Pump Station.

Project Name:	Storm Sewer Master Plan Reserve	Initial Start Date:	N/A
5-Year CIP Budget:	\$3,000,000	Revised Start Date:	
Total Budget:	\$3,000,000	Initial End Date:	N/A
Council District:		Revised End Date:	
USGBC LEED:	N/A		

Description: This reserve sets aside funding for future projects identified by the Storm Sewer Master Plan. The Storm Sewer Master Plan is anticipated to be completed in late 2016.
