

Volume 4
PLACER COUNTY SEWER MAINTENANCE DISTRICT 2
(SMD 2) GRANITE BAY
SEWER SYSTEM MANAGEMENT PLAN

INTRODUCTION

PLACER COUNTY MAINTAINED PUBLIC SEWER SYSTEMS

The Placer County Department of Facility Services operates and maintains nine separate sanitary sewer collection systems within the County. Eight of these are either Sewer Maintenance Districts (SMDs) or County Service Areas (CSAs) which derive their operating revenue from sewer user fees. Funds do not co-mingle between Districts. The Placer County Board of Supervisors is the governing board of each SMD or CSA. The ninth sewer system serves the Eastern Regional Landfill (ERL) Facility and the property is owned by the County. On May 2, 2006, the State Water Resources Control Board adopted Order 2006-003 Waste Discharge Requirements, which required all public owned sewer systems in the State with more than one mile of collection pipe to develop a Sewer System Management Plan (SSMP). Volume 1 (All Districts), Volume 2 (Appendices) and this volume comprise the SSMP for this District.

SMD 2 HISTORY AND DESCRIPTION

Development started in the late 1950s in the Granite Bay Area and the first developments were approved with septic systems. By 1959, many of the septic systems were failing and it was determined a public sewer system was needed. The Placer County Board of Supervisors formed Placer County Sewer Maintenance District No. 2 (SMD 2), which sold bonds to pay for design and construction of a Granite Bay sewer collection system and a wastewater treatment plant located off of Barton Road. The sewer collection system and treatment plant (located on Seven Cedars Road) were completed by 1961 and SMD 2 was formed to provide maintenance and operation of these. All existing structures within the District and within established criteria were required to connect to the sewer, along with all new commercial and residential development.

Since then, the SMD 2 sewer system was expanded to serve new development as it progressed. Undeveloped land within the District was served by new sewers constructed by development. Land requiring sewer service was annexed into the District. In the early 1980s, studies on the wastewater treatment plant determined in order to meet new discharge requirements, it was more economical to abandon the plant and connect to the City of Roseville Regional Treatment Plant. In 1984, a second sewer assessment district, the Southeast Placer Sewer Assessment District A-90, was formed by the Placer County Board of Supervisors, with bonds sold to pay for sewer design and construction of the regionalization project. Properties were assessed \$500

or \$800 per equivalent dwelling unit (EDU) based on their area of benefit. By 1986, seventeen miles of trunk sewer was constructed through the City of Roseville and SMD 2 (Granite Bay) and was connected to the regional treatment plant located at the west side of Roseville. Growth continued and as of July 2008, SMD 2 had 118 miles of sewer pipe in the ground and 7,016 EDU connections. A district map is provided in Section 4.1.1 of this SSMP. Section 3.0 of Volume 1 (All Districts SSMP), contains a description of the written agreements between the City of Roseville and SMD 2 regarding use of the wastewater treatment plant.

Most sewer systems are constructed with gravity sewers, where sewage flows down a sewer pipe by gravity with the pipeline sloped downhill toward the wastewater treatment plant. Four inch pipe is the minimum diameter of gravity sewer pipe used for servicing properties and six inch pipe is used for collector sewer in the street. If gravity sewer is not feasible, a sewage pump station is constructed to pump sewage in a pressure pipe to the top of the hill where it again flows by gravity downhill.

Placer County SMD 2 uses low pressure sewer in portions of the District that cannot accommodate gravity sewer flow. The sewer system utilizes a pressure pipe as small as two inch diameter that is able to go up or down hill. Each structure connected to the low pressure sewer has a septic tank that can remove solids and grease from the wastewater and pumps the remaining water into the low pressure sewer. Each pump is strong enough to pump the water to the end of the low pressure pipe. The unit at each structure is called a Septic Tank Effluent Pump (STEP) unit and is maintained for the property owner by the District. As of July 1, 2014, the District maintains 50 STEP units.

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**PLACER COUNTY SEWER MAINTENANCE DISTRICT 2
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1.0 GOALS

1.1 Introduction

Goals are the crux of any plan. They are the defining targets in which more specific objectives of this SSMP are aimed. The SSMP goals are itemized in SSMP Volume 1.

1.2 Placer County SSMP Goals

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all nine County maintained public sewer systems and there is no reason to duplicate the information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Goals” requirements.**

**PLACER COUNTY SEWER MAINTENANCE DISTRICT 2
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2.0 ORGANIZATION

2.1 Introduction

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all nine Placer County maintained public sewer systems and there is no reason to duplicate the information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Organization” requirements.**

**PLACER COUNTY SEWER MAINTENANCE DISTRICT 2
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3.0 LEGAL AUTHORITY

3.1 Introduction

Of the nine wastewater collection systems owned and maintained by Placer County (see Table Int-1 in Volume 1), two have their own wastewater treatment systems and do not rely on other agencies for wastewater treatment. The remaining seven sewer systems are satellite collection systems that connect to wastewater treatment plants owned and operated by other public agencies. This makes the legal authority for all nine sewer systems and their two satellite systems somewhat complicated. SMD 2 is a satellite collection system to the City of Roseville Regional Wastewater Treatment Plant. SMD 2 has a small satellite collection system connected to it, Sacramento County’s Treelake Village Unit 12. The legal authority for SMD 2, the City of Roseville, and Treelake Village Unit 12, are as follows:

3.2 Placer County Code, Articles 13.12 and 13.14

Every Placer County maintained sewage collection system, whether it has its own wastewater treatment plant or it is a satellite collection system to another agency’s treatment plant, is covered by Articles 13.12 and 13.14 of the Placer County Code. These code articles also cover the two small satellite collection systems connected to Placer County maintained Districts.

Article 13.12 is a comprehensive sewer ordinance that has been in use over 40 years and governs operation and maintenance of the County’s sewer system. It also contains the user fee, annexation fee and connection fee schedule for the nine sewer systems (excluding Cabin Creek). This ordinance has been updated many times and will continue to be updated as conditions warrant.

Article 13.14 is the Placer County Industrial Pretreatment Ordinance. While this article primarily regulates industry to protect the district wastewater treatment system, it also regulates many industrial types of discharges that could have adverse effects on collection systems.

Section 3 of the State WDRs, directs that legal authority cover a minimum of five items. Those five items and their location in the Placer County Code are summarized in the following table.

Table 3-1, WDR Legal Authority Requirements

Requirement	Code Location
Prevent illicit discharges	Section 13.12.020
	Section 13.12.070
	Section 13.12.100
	Section 13.12.140
	Section 13.14.050
Require proper design and construction	Section 13.12.210 and 220
Ensure access for maintenance/repairs	Section 13.14.180
Limit FOG discharges	Section 13.14.050
Enforce violations	Section 13.12.190 and 330

The Placer County Department of Facility Services periodically publishes a booklet containing current copies of Sections 13.12 and 13.14 of the County Code together with copies of the applicable City of Roseville Sewer Codes (see Sub-Section 3.2 of this Section). That booklet is contained in **Appendix “B”** of Volume 2. It is titled “Rules and Regulations of Placer County Operated Sewer and Water Systems”. A current copy of the Placer County Code can also be found on the County web site at <http://qcode.us/codes/placercounty/view.php?&frames=on>.

3.3 Roseville City Code, Chapter 14.12, 14.16, and 14.26

Similar to Placer County, the City of Roseville has sewer regulations in its City Code. They can be found on the City’s website at www.qcode.us/codes/roseville/. Chapter 14.12 of the City’s code covers regulations of sewer use, similar to the Placer County Code Article 13.12.010 through 13.12.230. Chapter 14.16 covers sewer rates and charges, similar to the County Code, Article 13.12.240 through 13.12.410. Chapter 14.26 covers their Industrial Wastewater Regulations. Copies of the above sections of the City’s code are also contained in the booklet found in **Appendix “B”** of Volume 2.

3.4 South Placer Wastewater Authority Joint Powers Agreement

SMD 2, SMD 3, Dry Creek, and Sunset discharge to the City of Roseville for treatment. South Placer Municipal Utilities District (SPMUD), which covers Rocklin, Newcastle, Penryn, and portions of the Loomis Basin also discharges to the City of Roseville for treatment. To facilitate financing, operations and maintenance of the jointly shared trunk sewers and the Roseville Regional Wastewater Treatment Plant, the three entities, Placer County, City of Roseville and SPMUD formed a joint powers authority called the South Placer Wastewater Authority. Through the Authority, Roseville continues to be fully responsible for operation and maintenance of the treatment plant and the trunk sewers and the Authority is primarily responsible for financing of the facilities. A copy of the written agreement forming that Authority can be found in **Appendix “C”** of Volume 2.

3.5 Funding Agreement Relating to the South Placer Regional Wastewater Facilities

The three members of the South Placer Wastewater Authority have a written agreement that directs how funding of the wastewater facilities will be handled. A copy of that agreement can be found in **Appendix “D”** of Volume 2.

3.6 Agreement Regarding the Operation and Use of the South Placer Regional Wastewater Facilities

The three members of the South Placer Wastewater Authority have a written agreement that directs how the regional wastewater facilities shall be operated and maintained. A copy of that agreement can be found in **Appendix “E”** of Volume 2.

3.7 Cooperative Agreement with Sacramento County Districts for Sewer Service to Treelake Village Unit 12

In 1996, an eleven lot subdivision, Treelake Village Unit 12, located just outside the Placer County line in Sacramento County was built. Sacramento County could not provide sewer service to the development; however Placer County SMD 2 had public sewers just inside the County line built by Treelake Village Units 1-11. Sacramento County and the developers requested that sewer service for Village 12 be connected to SMD 2. On February 26, 1997 a formal agreement was reached between SMD 2 and the Sacramento Regional County Sanitation District and Sacramento County Sanitation District 1 (SD 1) to provide that service. A copy can be found in **Appendix “H”** of Volume 2. The agreement provides that SD 1 maintain the sewer system in Sacramento County and SMD 2 transport the wastewater after it crosses the County line for treatment at the Roseville Regional Wastewater Treatment Plant.

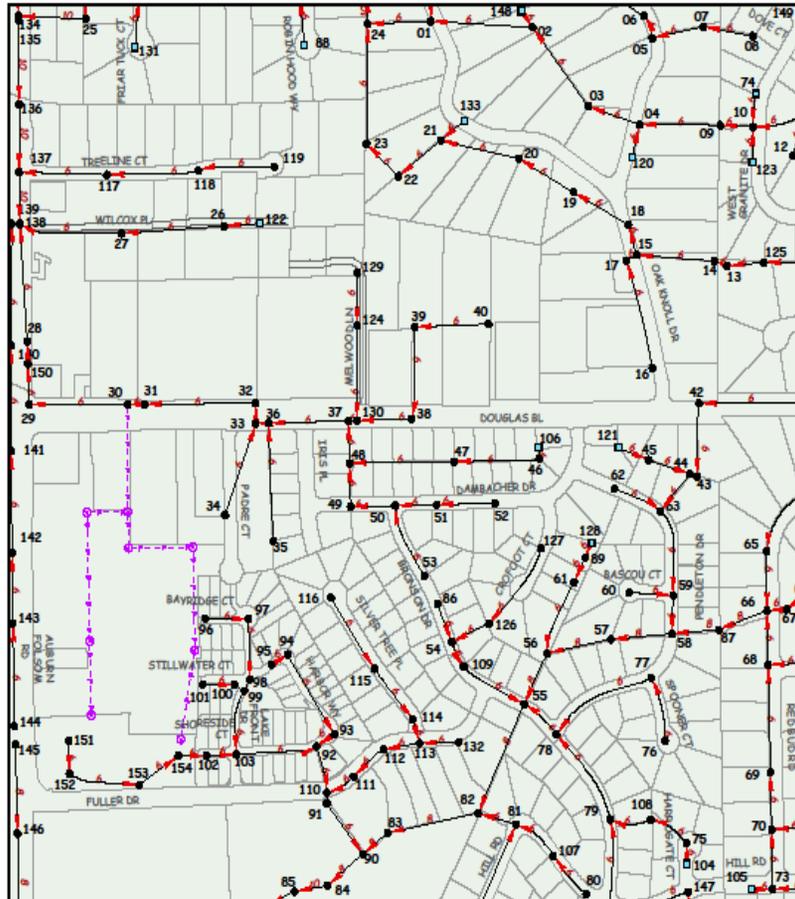
**PLACER COUNTY SEWER MAINTENANCE DISTRICT 2
(SMD 2) GRANITE BAY
SEWER SYSTEM MANAGEMENT PLAN**

4.0 OPERATIONS AND MAINTENANCE PROGRAM

4.1 Collection System Map

4.1.1 Introduction

As described in detail in Section 4 of Volume 1, All Districts SSMP, Placer County uses a GIS mapping system to produce sewer maps of each of the nine sewer systems it maintains. The mapping system produces wall size maps (1"=400') of the boundary of each district and also produces 11"x17" map book pages, placed in map books and used by maintenance personnel. Copies of the index map and one example of the individual map pages for SMD 2 are shown on pages 8 and 7, respectively. Wall maps of the entire sewer district are available for public review at the Environmental Engineering Offices located at 11476 C Avenue, Auburn, CA 95603 and upon request at (530) 886-4900.



E14	E15	E16
D14	D15	D16
C14	C15	C16

SMD 2
SEWER MAINTENANCE
DISTRICT 2
SANITARY SEWER

THIS MAP IS FOR INFORMATION ONLY AND IS NOT TO BE USED FOR DESIGN PURPOSES. PLACER COUNTY DOES NOT GUARANTEE ACCURACY OR CURRENTNESS OF THE INFORMATION. PERMITS ARE REQUIRED FOR EXCAVATION IN COUNTY RIGHTS OF WAY OR PUBLIC UTILITY EASEMENTS.

REV: 01/05/07

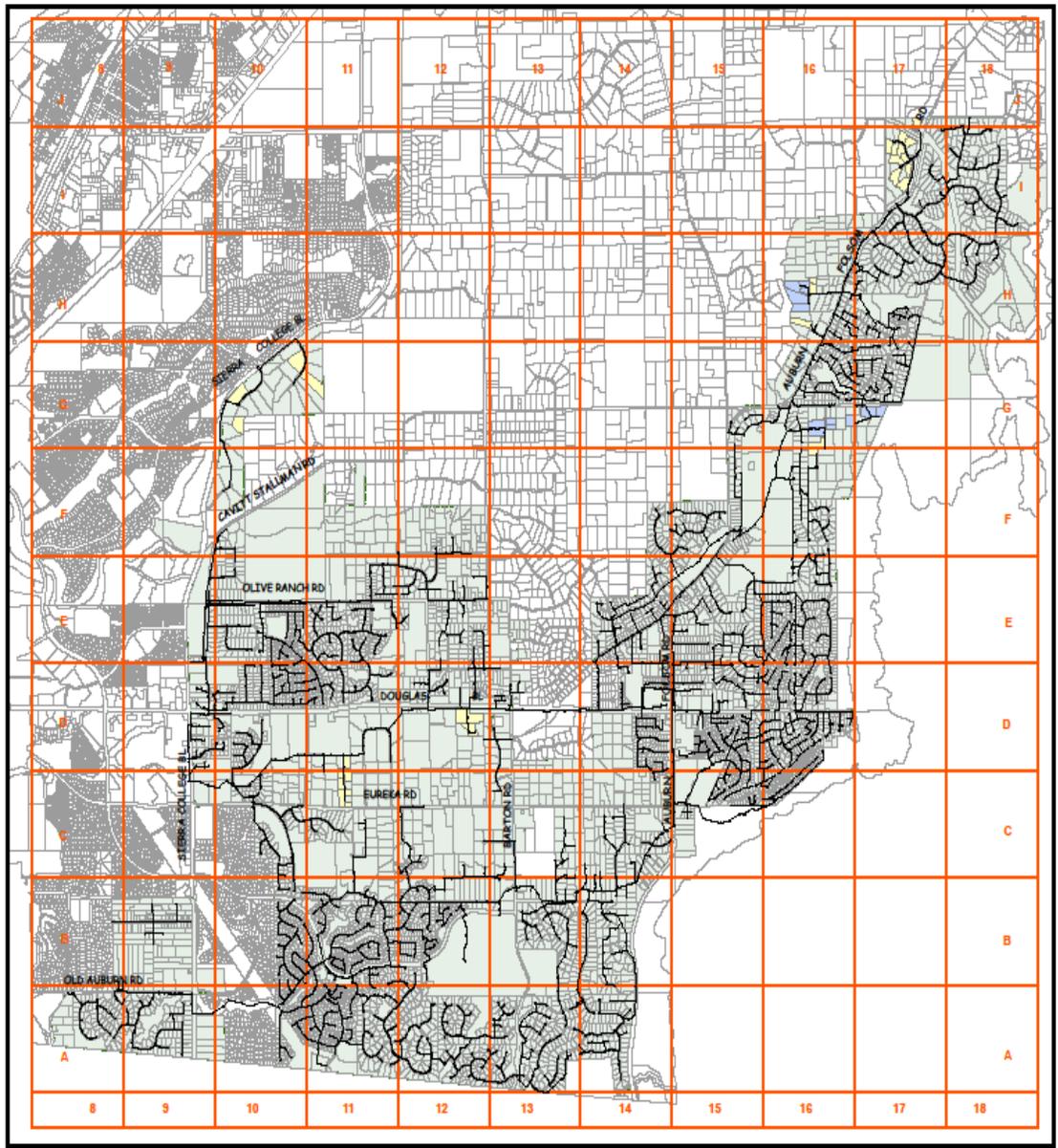


SCALE: 1" = 400'

PLACER COUNTY



FACILITY SERVICES



MAP INDEX

SMD 2 SEWER MAINTENANCE DISTRICT 2 SANITARY SEWER

LEGEND

- DISTRICT BOUNDARY

STEPS

- PLACER COUNTY MAINTAINED
- PRIVATE SYSTEMS

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REV: 01/05/07



NOT TO SCALE

PLACER COUNTY



FACILITY SERVICES

4.2 Preventive Operation and Maintenance

4.2.1 Introduction

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all nine Placer County maintained public sewer systems and there is no reason to duplicate the information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Preventive Operation and Maintenance” requirements.**

4.3 Rehabilitation and Replacement Plan

4.3.1 Introduction

As noted in Volume 1, All Districts SSMP, Section 4.3.0, in order to develop a R&R plan for a sewer system, a Condition Assessment of the sewer system must be completed. Methods for developing a Condition Assessment are detailed in Section 4.3.0. **Before proceeding with this section of this SSMP, the reader should review Section 4.3.0 of Volume 1 to better understand the methods chosen to evaluate this sewer collection system.**

4.3.2 Condition Assessment, Rehabilitation, and Replacement Plan

As noted in Section 4.3.0, before a R&R plan can be developed, a Condition Assessment of a sewer system must be made. That condition assessment usually consists of the following:

- Television inspection of the gravity sewer lines.
- Smoke testing the sewer lines.
- Hydro cleaning the sewer lines.
- Visual inspection of the manholes.
- A complete inspection of the sewage pump stations.

The nine sewer districts maintained by Placer County vary in size from 1.5 miles to 118 miles of pipe and have 42 sewage pump stations between them. Therefore, a Condition Assessment can be relatively easy to complete for the small districts and difficult for the large districts. For the large districts, conducting a Condition Assessment of the entire district at one time can be cumbersome and inefficient due to the volume of work to be completed and analyzed. In those districts, dividing the sewer district into smaller sections is a feasible way of completing the project over a number of years rather than all at once.

In the case of SMD 2, the following information is available:

- The District has 118 miles of sewer pipe and 5 sewage pump stations.
- 5.2 miles of the sewer system are low pressure sewer pipes which cannot be televised.
- In the last five years, 45.1 miles of the sewer system have been closed circuit television.
- Since 2008, 11.03 miles of the gravity sewers were smoke tested.
- A small number of sewer system overflows have been recorded in the last three years (see Section 9).
- No Condition Assessment or R&R plans have been developed.

Therefore, it is recommended the sewer system and manholes be inspected and smoke tested, and a Condition Assessment be completed prior to the preparation of a R&R plan. Due to the size of SMD 2, the District will need to be broken down into drainage areas to reduce the size of each individual assessment in order to complete a condition assessment.

4.3.3 SMD 2 Rehabilitation and Replacement Schedule

The proposed schedule for completion of the above noted work is as follows:

Proposed Project	Completion Year
CCTV Sewers	2018*
Pump Station Evaluation	2018*
Condition Assessment Report	2019*
Capacity Analysis	2020*
Capital Improvement Program	2021*

*The District operates under an ongoing Preventative Maintenance program that schedules portions of these Projects each year to ensure that each of the Projects are completed every ten years. Completion years for the current Project cycles are presented above.

4.4 Training

4.4.1 Introduction

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all nine Placer County maintained public sewer systems and there is no reason to duplicate the information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Training” requirements.**

4.5 Contingency Equipment and Replacement Inventories

4.5.1 Introduction

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all nine Placer County maintained public sewer systems and there is no reason to duplicate the information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Contingency Equipment and Replacement Inventories” requirements.**

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5.0 DESIGN AND PERFORMANCE PROVISIONS

5.1 Standards for Installation, Rehabilitation, and Repair

5.1.1 Introduction

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all nine Placer County maintained public sewer systems and there is no reason to duplicate the information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Design and Performance Standards” requirements.**

5.2 Standards for Inspection and Testing of New, Rehabilitated, and Repaired Facilities

For new sewer construction, the County follows the General Specifications (see Appendix J of Volume 2) and design criteria for the Land Development Manual (see Appendix I of Volume 2). The County General Specifications are currently being revised.

The County implements a Preventative Maintenance (PM) Program that uses NASSCO ratings to prioritize rehab and repair projects. County staff performs interior point repairs and smaller excavation projects to fix structural and I&I related problems. The County routinely contracts Cured in Place Pipe (CIPP) and manhole lining work based upon the results of the PM program.

5.2.1 Introduction

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all nine Placer County maintained public sewer systems and there is no reason to duplicate the information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Standards for Inspection and Testing” requirements.**

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**6.0 OVERFLOW EMERGENCY
RESPONSE PLAN**

6.1 Introduction

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all nine Placer County maintained public sewer systems and there is no reason to duplicate the information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Overflow Emergency Response Plan” requirement.**

**PLACER COUNTY SEWER MAINTENANCE DISTRICT 2
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7.0 FATS, OILS, AND GREASE (FOG) CONTROL PROGRAM

7.1 Introduction

There are a number of ways a FOG Control and Public Outreach Program can be developed for an existing sewer system depending on its size and type of connections. Those methods are summarized in Volume 1, “All districts SSMP”, Section 7. **Before proceeding with this section of the SMD 2 SSMP, the reader should review Section 7 of Volume 1 to better understand the methods chosen to control FOG in the SMD 2 sewer system.**

7.2 Existing SMD 2 Sewer System

See the “Introduction” of this SSMP, SMD 2 History and Description, for a summary of the district sewer system. As noted at that location, the existing sewer system in SMD 2 has 118 miles of sewer pipe and a number of pump stations. It also has some commercial properties connected to the sewer with a number of restaurants on the existing FOG Control Program noted in Section 7 of Volume 1. The district also contains two mobile home parks with more than 100 homes each; however, there are minimal multi-family dwellings.

7.3 Selected FOG Source Control and Public Education Outreach Program

Due to the conditions noted above, the most appropriate FOG Source Control and Public Education Outreach Program (see Section 7.6, Volume 1) would be a combination of “Program B” and “Program C”. The large number of single family homeowners should receive Public Education Outreach through a newsletter and the mobile home parks should receive targeted education to reach renters. Finally, the known FOG producing commercial connections should continue to be inspected in the FOG Control Program.

**PLACER COUNTY SEWER MAINTENANCE DISTRICT 2
(SMD 2) GRANITE BAY
SEWER SYSTEM MANAGEMENT PLAN**

8.0 SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN

8.1 Introduction

There are a number of ways a System Evaluation and Capacity Assurance Plan can be developed for an existing sewer system depending on its size and age. The methods are summarized in Volume 1, “All Districts SSMP”, Section 8. **Before proceeding with this section of the SMD 2 SSMP, the reader should review Section 8 of Volume 1 to better understand the methods chosen to evaluate the SMD 2 sewer system.**

8.2 Existing SMD 2 Sewer System

See the “Introduction” of this SSMP, SMD 2 History and Description, for a summary of the district sewer system. As noted at that location, the existing sewer system in Granite Bay is fairly large with 118 miles of pipe and 7,016 equivalent dwelling units connected. In 1986, when the district constructed a trunk sewer system connected to the Roseville Regional Wastewater Treatment Plant and abandoned its treatment plant, a static hydraulic model was developed for the sewer system. The model covered all the land now inside the sewer district boundaries, with the new trunk sewer size based on the model. The hydraulic model assumed that no additional land would be added to the sewer district; therefore, the district would have capacity only for its customers.

In June 2007, a City of Roseville’s consultant completed the “*South Placer Regional Wastewater and Recycled Water Systems Evaluation*”. The study, written by RMC Water and Environment, is available for review at the City of Roseville Department of Environmental Utilities Office and the office of the Placer County Department of Facility Services. That study completed a dynamic hydraulic analysis of all sewer pipes greater than 12 inches in diameter, not only within the City of Roseville sewer system, but also within the SMD 2 Sewer System.

Two models were completed. The first model based on the number of sewer system connections as of June 2004. The SMD 2 model showed that a portion of a 15 inch trunk sewer east of Sierra College Boulevard, close to the County line, might be at capacity during extreme wet weather conditions. No other capacity limitations were found, but the 15 inch trunk sewer needs further analysis.

A second hydraulic model was completed showing full build out of all empty and partially filled parcels in SMD 2 along with the complete build out of adjacent land that might need sewer service. The model indicated the above noted potential deficiency along with a second location just upstream of the first. Also shown was that if all potential land outside current boundaries of SMD 2 were annexed into the district and connected to the sewer system, three additional locations in a second trunk sewer (north of the one noted above) would reach capacity. The reason for this expectation is that the existing SMD 2 trunk sewer system was not sized to handle any annexations into the district. If annexations were to occur, new sewer construction would be needed to handle the additional sewage flow.

Based on the study by the City of Roseville, further analysis of the SMD 2 Sewer System is warranted. It showed two areas have a potential capacity problem and the Roseville Study only analyzed trunk sewers 12 inches and larger. It is recommended that a complete capacity analysis of the SMD 2 sewer system be performed including analyzing pipes 8 inches in diameter and larger. This may locate other potential problems along with develop solutions to the potential capacity problems noted above.

8.3 Selected Capacity Analysis Type

Due to the conditions noted above, the most appropriate Capacity Analysis Type (see Section 8.3, Volume 1) would be “Type B”. The district has three separate trunk sewers, each of which is not long enough for a dynamic model.

8.4 Capital Improvement Program and Funding

Based on the results of the proposed Capacity Analysis in Section 8.3, if improvements are needed to the SMD 2 Sewer System, a Capital Improvement Program (CIP) and funding program will be developed to meet those needs. At this time, the capacity analysis has not been completed resulting in the CIP and funding program not being presented.

8.5 CIP Schedule

The proposed schedule for the above noted work is as follows:

Proposed Assessment	Completion Year
Flow Metering	2019*
Capacity Analysis and report completed	2020*
Capital Improvement Program and report completed	2021*
Funding Program and report completed	2022*

*The District operates under an ongoing Preventative Maintenance program that schedules portions of these Projects each year to ensure that each of the Projects are completed every ten years. Completion years for the current Project cycles are presented above.

**PLACER COUNTY SEWER MAINTENANCE DISTRICT 2
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9.0 MONITORING, MEASUREMENT, AND PROGRAM MODIFICATIONS

9.1 Introduction

As noted in Section 9 of the All Districts SSMP (Volume 1), Monitoring, Measurement, and Program Modifications is probably one of the most important components in developing a SSMP. Once all programs and projects listed in the previous chapters are implemented, they need to be monitored and measured in some form so they can be evaluated to determine their effectiveness. This evaluation is done by collecting data on a yearly basis that will show how effective they are in reaching the goals of the SSMP, reducing Sewer System Overflows (SSOs) and protecting the environment. The yearly SSO data is plotted to see rolling five-year trends as a part of the internal self-audit process that occurs every two years. Program modifications are made based upon the recommendations of these internal self-audits.

9.2 Maintain Relevant Information (Requirement 9.0 a)

Section 9 (Volume 1) lists a number of potential maintenance activities that could be tracked in any district, depending on specific circumstances. Table 9.1 lists the activities selected for this district. When data is available, Table 9.1 also lists the totals from the last three years for those activities to provide a baseline for evaluation.

Data from calendar years 2013 and 2014 are available now, but not presented here. The next internal SSMP self-audit will be performed in calendar year 2016 and will include data through calendar year 2015. For information on these measurement categories from calendar years beyond 2012, refer to the internal SSMP self-audit.

Table 9.1 SMD 2 Measurement Categories

Category	Units	Description	Unit	Number By Year				
				2008	2009	2010	2011	2012
SSOs	--	Caused by Roots	Count	0	0	0	1	3
SSOs	--	Caused by Grease	Count	0	0	0	0	0
SSOs	--	Caused by Contractors	Count	0	0	0	0	0
SSOs	--	Caused by Vandalism	Count	0	0	0	0	0
SSOs	--	From Pump Stations	Count	0	0	0	0	0
SSOs	--	From Other Causes	Count	0	0	2	1	0
SSOs	--	Total Category 1	Count	0	0	1	1	0
SSOs	--	Total Category 2	Count	0	0	1	1	3
SSOs	--	Total SSOs	Count	0	0	2	2	3
Gravity Sewers	Miles	CCTV Inspections Sewers	Miles	27.65	12.41	12.19	15.05	21.04
Gravity Sewers	Miles	Clean Sewers	Miles	74.40	40.89	41.91	58.76	42.28
Gravity Sewers	Miles	Sewer Rehabilitation Dig and Repair	Count	32	3	15	2	7
Gravity Sewers	Miles	Sewer Rehabilitation Pipe Lining	Miles	1.50	.36	0	.80	0

Table 9.1 SMD 2 Measurement Categories (continued)

Category	Units	Description	Unit	Number By Year				
				2008	2009	2010	2011	2012
Gravity Sewers	Miles	Smoke Test Sewers	Miles	11.03	9.32	0	0	0
Gravity Sewers	Miles	Root Treatment	Miles	2.63	6.00	2.05	.69	3.52
Force Mains	Miles	Force Main Pigged	Miles	0	0	0	0	0
Sewage Air Relief Valves	Each	ARV Maintenance	Count	0	3	17	1	2
Manholes	Each	Manholes Rehabilitation	Count	79	34	16	11	6
Pump Stations	Each	Pump Station Major Rehabilitation	Count	0	0	0	0	0
STEP Tanks	Each	Tanks Pumped	Count	0	0	1	2	7
STEP Units	Each	Units Repaired	Count	2	3	7	4	2

Note: Calendar year 2013 and 2014 data are now available but not presented here. The next internal SSMP self-audit will be performed in calendar year 2016 and will include data through calendar year 2015. For information on these measurement categories from calendar years beyond 2012, refer to the internal SSMP self-audit.

9.3 Monitor the Effectiveness of the SSMP and the Success of the Preventative Maintenance Program (Requirement 9.0 b-c)

The WDRs require Placer County to monitor the effectiveness of the SSMP and the success of the Preventative Maintenance program. Staff performed SSMP self-audits every two years. The SMD 2 SSMP self-audit was last completed in October 2014.

9.4 Update Program Elements (Requirement 9.0 d)

The SSMP elements are updated every five years, at a minimum. The updates are based upon the recommendations of the internal SSMP self-audits that occur a minimum of every two years.

9.5 Identify and Illustrate SSO Trends (Requirement 9.0 e)

SSO trends are presented in the internal SSMP self-audits performed every two years. The audits specifically show trends of the number of SSO's, the category of SSO's and the volume of SSO's (total and unrecovered) over the previous 5 years. For specific trends, refer to the most recent internal SSMP self-audit.

**PLACER COUNTY SEWER MAINTENANCE DISTRICT 2
(SMD 2) GRANITE BAY
SEWER SYSTEM MANAGEMENT PLAN**

10.0 SSMP PROGRAM AUDITS

10.1 Introduction

As mentioned in the introduction to SSMP, a number of requirements or sections of the SSMP provide data pertaining to all nine Placer County maintained public sewer systems and there is no reason to duplicate the information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “SSMP Program Audits” requirements.**

**PLACER COUNTY SEWER MAINTENANCE DISTRICT 2
(SMD 2) GRANITE BAY
SEWER SYSTEM MANAGEMENT PLAN**

11.0 COMMUNICATION PROGRAM

11.1 Introduction

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all nine Placer County maintained public sewer systems and there is no reason to duplicate the information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Communication Program” requirements.**

**PLACER COUNTY SEWER MAINTENANCE DISTRICT 2
(SMD 2) GRANITE BAY
SEWER SYSTEM MANAGEMENT PLAN**

**12.0 SSMP COMPLETION AND
CERTIFICATION**

12.1 Introduction

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all nine Placer County maintained public sewer systems and there is no reason to duplicate the information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “SSMP Completion and Certification” requirements.**