

**Volume 5**  
**PLACER COUNTY SEWER MAINTENANCE DISTRICT 3**  
**(SMD 3) HORSESHOE BAR/FOLSOM LAKE**  
**SEWER SYSTEM MANAGEMENT PLAN**

**INTRODUCTION**

**PLACER COUNTY MAINTAINED PUBLIC SEWER SYSTEMS**

The Placer County Department of Facility Services operates and maintains ten separate sanitary sewer systems within the County. Nine of the ten are either Sewer Maintenance Districts (SMD's) or County Service Areas (CSA's) 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 tenth sewer system serves the Cabin Creek Facility, with the property being owned by the County. On May 2, 2006, the State Water Resources Control Board adopted Order 2006-003 which required all public owned sewer systems in the State with more than one mile of pipe to develop a Sewer System Management Plan (SSMP). Volume 1 (All Districts), 2 (Appendix) and this volume are the SSMP for this District and the reader should refer to Volume 1 Introduction for a detailed description of that State requirement.

**SMD 3 HISTORY AND DESCRIPTION**

Around 1960, the area that is now SMD 3 was undergoing a general plan update. Realizing the need for sewer service for the small lot sizes that were proposed, Placer County Sewer Assessment District 3 was formed. Bonds were sold to pay for the design and construction of a sewage collection system and wastewater treatment plant to serve the mostly vacant land. By 1962, construction was complete and development began. However, for various reasons, growth was slow, and in the 1960's only a 100 unit mobile home park and one subdivision were constructed. By the late 1980's, however, additional growth began to occur. To date, there is still approximately 35% of the land within the district that is undeveloped. Due to slow growth and the 1975 General Plan that increased minimum lot size, there are only 610 EDU's connected to only 16 miles of sewer pipe, as of July 2008.

The district is evaluating the needs of their wastewater treatment plant to meet new discharge regulations. One of the feasible alternatives is to abandon the plant, construct a sewage pump station and transport district wastewater to the Granite Bay area and SMD 2. The district will then have the wastewater treated at the Roseville Regional Wastewater Treatment Plant. A district map is provided in Section 4a.1 of this SSMP.

Most sewer systems are constructed with gravity sewers, where sewage flows down a sewer pipe by gravity with the pipeline sloped downhill to the wastewater treatment plant. Four inch pipe is the minimum diameter of gravity sewer pipe used for private services and 6 inch pipe is the minimum diameter for public sewer. When necessary due to topography or excessive depths of sewer pipes, a sewage pump station is constructed where sewage is then pumped in a pressure pipe to the a point top of the hill where it gain flows by gravity. Placer County SMD 1 uses another type of sewer system in portions of the districts requiring a low pressure sewer. The sewer system utilizes a pressure pipe as small as 2 inch in diameter that is able to go up or down hill. Each structure connected to the low pressure sewer has a septic tank to remove solids and grease from the wastewater and a pump tank that pumps the remaining water into the 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 sewer district.

As of July 1, 2008, SMD 3 maintains 62 STEP units.

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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. Even though Placer County could develop a number of very specific goals as developed in further sections of this SSMP, they are best summed up in the following general goals.

### **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 ten County maintained public sewer systems and there is no reason to duplicate the information. This section is one of those sections and it can be found in its entirety in Volume 1 and 2. **The reader should refer to those binders for information regarding the “Goals” requirements**

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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 ten Placer County maintained public sewer systems and there is no reason to duplicate that information. This section is one of those sections and it can be found in its entirety in Volume 1 and 2. **The reader should refer to those binders for information regarding the “Organization” requirements.**

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## **3.0 LEGAL AUTHORITY**

### **3.1 Introduction**

Of the ten wastewater collection systems owned and maintained by Placer County (see Table Int-1), five have their own wastewater treatment systems and do not rely on other agencies for wastewater treatment. The remaining five 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 ten sewer systems and their two satellite systems somewhat complicated. CSA 6 has its own wastewater treatment system and thus is not a satellite collection system. An explanation of the districts legal authority is 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. 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 systems, it does regulate many industrial types of discharges that could have adverse effects on collection systems.

Section 3, of the State's GWDR, 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, GWDR Legal Authority Requirements**

<b>Requirement</b>	<b>Code Location</b>
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”** and a separate copy can be obtained at the Facility Service’s front counter or the Community Development Resources Agency front counter. 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://ordlink.com/codes/placer/index.htm>.

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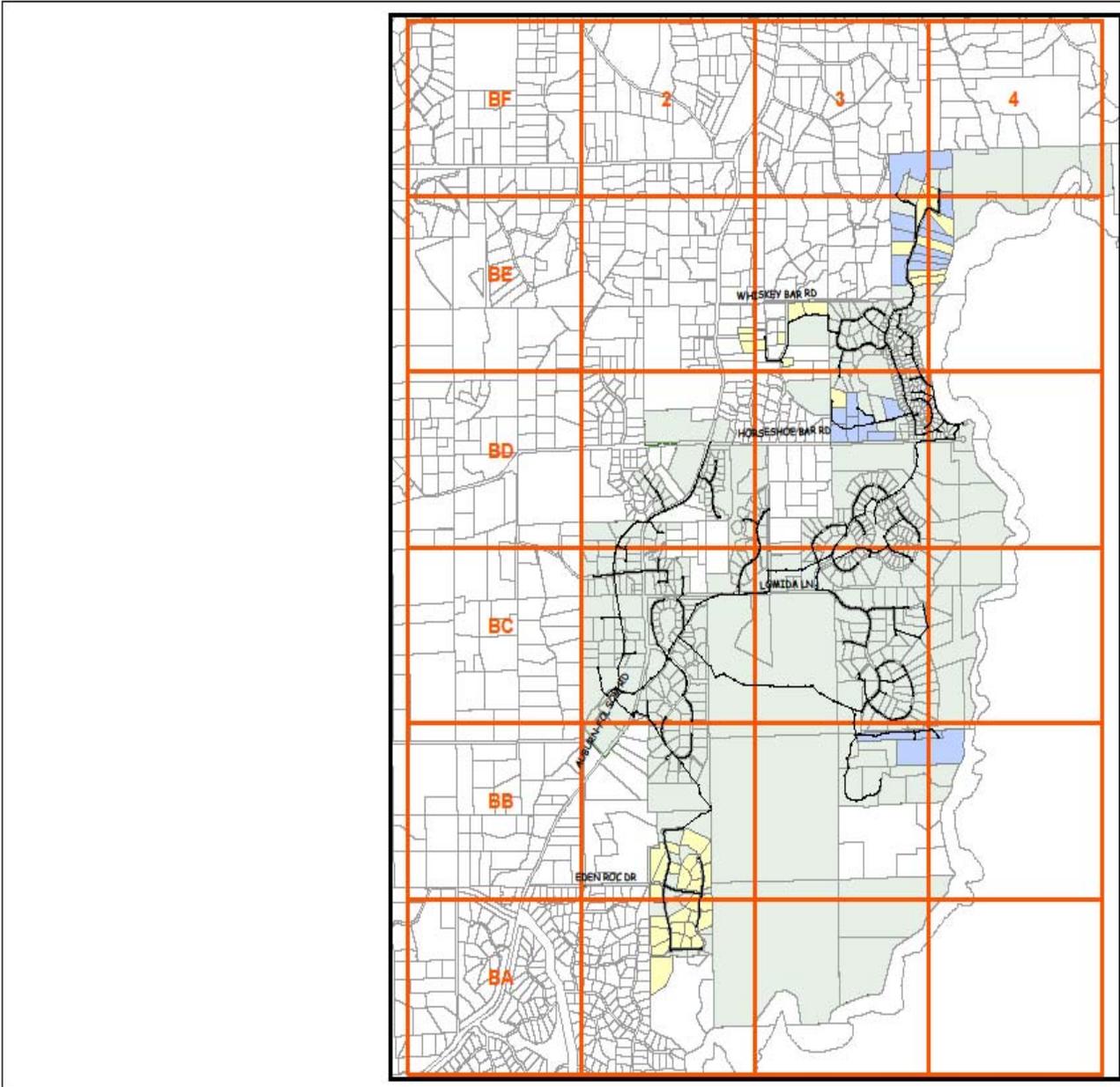
**4.0 OPERATIONS AND  
MAINTENANCE PROGRAM**

**4a.0 Collection System Map**

**4a.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 ten 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. Index map copies and one of the individual map pages for SMD 3 are contained in the following two pages. Wall maps of the entire sewer district are available for public review at the front counter of the Community Development Resource Agency and the Environmental Engineering Offices.





# MAP INDEX

## SMD 3 SEWER MAINTENANCE DISTRICT 3 SANITARY SEWER

**LEGEND**

- DISTRICT BOUNDARY
- STEPS**
- PLACER COUNTY MAINTAINED
- PRIVATE SYSTEMS

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.

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NOT TO SCALE

PLACER COUNTY



FACILITY SERVICES

## **4b.0 Preventive Operation and Maintenance**

### **4b.1 Introduction**

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all ten Placer County maintained public sewer systems and there is no reason to duplicate that information. This section is one of those sections and it can be found in its entirety in Volume 1 and 2. **The reader should refer to those binders for information regarding the “Preventive Operation and Maintenance” requirements.**

## **4c.0 Rehabilitation and Replacement Plan**

### **4c.1 Introduction**

As noted in Volume 1, “All Districts SSMP”, Section 4c, in order to develop a Rehabilitation and Replacement (R & R) plan for a sewer system, a condition assessment of the sewer system must be completed. Methods of doing a condition assessment are detailed in Section 4c. **Before proceeding with this section of this SSMP, the reader should review Section 4c of Volume 1 to better understand the methods chosen to evaluate this sewer system.**

### **4c.2 Condition Assessment, Rehabilitation, and Replacement Plan**

As noted in Section 4c, before an R&R plan can be developed, a condition assessment of a sewer system must be made. That condition assessment usually consists of the following:

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

The ten sewer districts maintained by Placer County vary in size from 0.5 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 shear 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 3, the following information is available:

- The SMD has 16 miles of sewer pipe and three sewage pump stations.
- 3.9 miles of the sewer system are low pressure sewer pipes which cannot be televised.
- In the last five years, 8.3 miles of the sewer system have been televised.
- One sewer system overflow has been recorded in the district in the last five years.
- No condition assessment or R & R plans have been developed.

Therefore, it is recommended that the gravity portion of the sewer system and manholes be inspected, smoke tested and a condition assessment be completed prior to the preparation of an R & R plan.

### **4c.3 SMD 3 Rehabilitation and Replacement Schedule**

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

<b>Proposed Project</b>	<b>Completion Year</b>
Televise Sewers	2008
Manhole Inspections	2010
Smoke Testing	2011
Pump Station Evaluations	2010
Condition Assessment Report	2012
Rehabilitation and Replacement Plan developed (if needed)	2012
Funding Program (if needed)	2013

## **4d.0 Training**

### **4d.1 Introduction**

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all ten Placer County maintained public sewer systems and there is no reason to duplicate that information. This section is one of those sections and it can be found in its entirety in Volume 1 and 2. **The reader should refer to those binders for information regarding the “Training” requirements.**

## **4e.0 Contingency Equipment and Replacement Inventories**

### **4e.1 Introduction**

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all ten Placer County maintained public sewer systems and there is no reason to duplicate that information. This section is one of those sections and it can be found in its entirety in Volume 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**

**5a.0 Standards for Installation, Rehabilitation, and Repair**

**5a.1 Introduction**

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all ten Placer County maintained public sewer systems and there is no reason to duplicate that information. This section is one of those sections and it can be found in its entirety in Volume 1 and 2. **The reader should refer to those binders for information regarding the “Design and Performance Standards” requirements.**

**5b.0 Standards for Inspection and Testing of New, Rehabilitated, and Repaired Facilities**

**5b.1 Introduction**

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all ten Placer County maintained public sewer systems and there is no reason to duplicate that information. This section is one of those sections and it can be found in its entirety in Volume 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 ten Placer County maintained public sewer systems and there is no reason to duplicate that information. This section is one of those sections and it can be found in its entirety in Volume 1 and 2. **The reader should refer to those binders for information regarding the “Overflow Emergency Response Plan” requirement.**

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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 3 SSMP, the reader should review Section 7 of Volume 1 to better understand the methods chosen to control FOG in the SMD 3 sewer system.**

### **7.2 Existing SMD 3 Sewer System**

See the “Introduction” of this SSMP, SMD 3 History and Description, for a summary of the district sewer system. As noted at that location, the existing sewer system in SMD 3 is 16 miles in length and serves only residential properties. There are 610 EDU’s, approximately 100 of which are mobile homes in a park. The remainder is single family homes. No commercial connections exist.

### **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 “Program C”. The single family homes should receive Public Education Outreach and the mobile home park should received targeted education so that renters receive the information.

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**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. Those methods are summarized in Volume 1, “All Districts SSMP”, Section 8. **Before proceeding with this section of the SMD 3 SSMP, the reader should review Section 8 of Volume 1 to better understand the methods chosen to evaluate the SMD 3 sewer system.**

**8.2 Existing SMD 3 Sewer System**

See the “Introduction” of this SSMP, SMD 3 History and Description, for a summary of the district sewer system. The existing sewer system is of moderate size with 16 miles of sewer pipe. The trunk sewer system is 45 years old; however, much of the collection system has been constructed in the last 15 years with the development of some of the properties in the district. SMD 3 has a moderate Infiltration and Inflow (I/I) problem with occasional (once a year or less) heavy spikes of flow during exceptional heavy rains when creeks are high. This would indicate potential locations where inflow enters the sewer system when the creeks are flooding. Several of these locations have been found and corrected; however, the spikes still occasionally happen.

Extensive flow monitoring has been conducted in the SMD 3 Sewer System with 45 years of accurate flow monitoring at the treatment plant. During the winters of 2006-07 and 2007-08, two portable meters were also placed in the system for further analysis. This data will be available for the proposed hydraulic analysis of the district sewer system. No past hydraulic modeling has been done on the sewer system. For future modeling, the sewer system is not large enough to need a dynamic model; therefore, a static model is proposed.

**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”.

## 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 3 sewer system, a Capital Improvement Program (CIP) and funding program will be developed to meet those needs. The capacity analysis has not been completed and therefore, the CIP and funding program cannot be presented.

## 8.5 CIP Schedule

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

<b>Proposed Assessment</b>	<b>Completion Year</b>
Flow Metering	Completed
Capacity Analysis and report completed	2012
Capital Improvement Program and report completed	2012
Funding Program and report completed	2013

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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.

### **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.

**Table 9.1 SMD 3 Measurement Categories**

Category	Current District Total 7/1/08	Description	Units	Number By Year				
				2004	2005	2006	2007	2008
SSOs	--	Caused by Roots	Count					
SSOs	--	Caused by Grease	Count					
SSOs	--	Caused by Contractors	Count		1			
SSOs	--	Caused by Vandalism	Count					
SSOs	--	From Pump Stations	Count			1		
SSOs	--	From Other Causes	Count			1		
SSOs	--	Total Category 1	<b>Count</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>
SSOs	--	Total Category 2	<b>Count</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>
SSOs	--	Total per 100 Miles per Year	Count	0	7.8	15.63	0	0
Gravity Sewers	12.8 Miles	CCTV Inspection Sewers	Miles	1.06	0.58	0	1.22	5.5
Gravity Sewers	12.8 Miles	Clean Sewers	Miles	5.03	5.32	3.4	2.81	11.45
Gravity Sewers	12.8 Miles	Sewer Rehabilitation Dig and Repair	Count	0	1	0	1	1
Gravity Sewers	12.8 Miles	Sewer Rehabilitation Pipe Lining	Linear Feet	0	0	0	0.07	0

**Table 9.1 SMD 3 Measurement Categories (continued)**

Category	Current District Total 7/1/08	Description	Units	Number By Year				
				2004	2005	2006	2007	2008
Gravity Sewers	12.8 Miles	Smoke Test Sewers	Miles	0	0	0	0	0
Gravity Sewers	12.8 Miles	Root Treatment	Miles	0.38	0.016	0.64	0.27	0.79
Force Mains	3.9 Miles	Force Main Pigged	Miles	0	0	0	0	0
Sewage Air Relief Valves	9 Each	ARV Maintenance	Count	0	0	0	0	0
Manholes	304 Each	Manholes Rehabilitation	Count	0	0	4	2	0
Pump stations	3 Each	Pump station Major Rehabilitation	Count	Data Not Available	Data Not Available	Data Not Available	Data Not Available	0
Flow Meters Temporary	--	Number of Flow Meter Days	Count	Data Not Available	FY2005-06 0	FY 2006-07 491	FY2007-08 562	FY 2008-09 In progress
STEP Tanks	62 Each	Tanks Pumped	Count	1	1	3	0	0
STEP Units	62 Each	Units Repaired	Count	4	8	7	7	6

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

The GWDR requires Placer County to monitor the effectiveness of the SSMP and the success of the preventative maintenance program. Several years of data collected under the previous section for this district will be needed before this requirement can be completed. It is expected that the appropriate sections of this district's SSMPs will be completed after the end of Fiscal Year 2008-09, allowing two full years of data.

### **9.4 Update Program Elements (Requirement 9.0 d)**

Based on data collected through Fiscal Year 2008-09 for this district, SSMP program elements can be updated based on their performance. This update should be completed in the first half of FY 2009-10.

### **9.5 Identify and Illustrate SSO Trends (Requirement 9.0 e)**

Placer County began reporting SSOs on the State Water Resources Control Board's web based reporting system on September 2007. The information placed into that data base is extensive and adequately identifies and illustrates each SSO after September 2007. During the preparation of the district SSMP, SSO information was collected from 2004 to the present and is presented in Table 9.1, depicting five years of overflow trends.

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## **10.0 SSMP PROGRAM AUDITS**

### **10.1 Introduction**

As mentioned in the introduction to this SSMP, a number of requirements or sections of the SSMP provide data pertaining to all ten Placer County maintained public sewer systems and there is no reason to duplicate that information. This section is one of those sections and it can be found in its entirety in Volume 1 and 2. **The reader should refer to those binders for information regarding the “SSMP Program Audits” requirements.**

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## **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 ten Placer County maintained public sewer systems and there is no reason to duplicate that information. This section is one of those sections and it can be found in its entirety in Volume 1 and 2. **The reader should refer to those binders for information regarding the “Communication program” requirements.**

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**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 ten Placer County maintained public sewer systems and there is no reason to duplicate that information. This section is one of those sections and it can be found in its entirety in Volume 1 and 2. **The reader should refer to those binders for information regarding the “SSMP Completion and Certification” requirements.**