

Volume 6
PLACER COUNTY SERVICE AREA 28, ZONE 2A3
(CSA 2A3) SUNSET
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.

CSA 2A3 HISTORY AND DESCRIPTION

In 1965, a large lot industrial subdivision was constructed in the Sunset Whitney area. A trunk sewer was built along the length of Cincinnati Avenue and wastewater treatment ponds were constructed at the south end of the development next to Pleasant Grove Creek. Placer County Service Area 2A3 was formed around the land served by the sewer to provide maintenance and operations of the sewer system and treatment ponds. Industrial growth was slow and not until the early 1980's was more industrial land developed. In 1986, the North Roseville-Rocklin Sewer Assessment District constructed a trunk sewer line near the treatment ponds and the Sunset Industrial Area was connected to the Roseville Regional Wastewater Treatment Plant and the ponds were abandoned. In 1994, a sewage pump station and force main was constructed to serve the Western Regional Landfill and Material Recovery Facility. In the 1990's and early 2000's, additional industrial land east of Cincinnati Avenue was developed and additional sewers were constructed. As of July 2008, there are 10 miles of sewer in the County Service Area (CSA) and 1,142 Equivalent Dwelling Units (EDU's) connected to the sewer. There are no single family homes connected in CSA 2A3.

CSA 2A3 is part of the Sunset Industrial Area Specific Plan covering all industrial planned land south of Athens Avenue. The existing sewer system, containing 10 miles of pipe, covers only a small portion of the land proposed for industrial growth by that plan.

Property owners have proposed the Placer Ranch Specific Plan which will develop all of the remaining industrial area in the Sunset Industrial Area Plan and an additional large portion of land west of Fiddymont Road. The Plan calls for more industrial development along with some housing and a regional college campus. Placer Ranch is proposing and will develop its own sewer master plan which will model how to sewer the proposed development as well as handle sewage flows from the existing CSA 2A3 Sewer System.

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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 the 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 that 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 2A3 is a satellite collection system to the City of Roseville Regional Wastewater Treatment Plant. Explanations of the CSA 2A3 legal authority and the City of Roseville's 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 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

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”** 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>.

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

Similar to Placer County, the City of Roseville has in its City Code sewer regulations. 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**.

3.4 South Placer Wastewater Authority Joint Powers Agreement

Along with the three Placer County maintained sewer systems, there is also one other independent agency sewer system that is connected to the Roseville Regional Wastewater Treatment Plant. That is the South Placer Municipal Utilities District (SPMUD), which covers Rocklin, Loomis, Penryn, and portions of the Loomis Basin. To facilitate financing, operations and maintenance of the jointly shared trunk sewers and the Roseville Regional Wastewater Treatment Plant, the three entities, Placer County, 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”**.

3.5 Funding Agreement Relating to the South Placer Regional Wastewater Facilities

The three members of the South Placer Wastewater Authority also 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”**.

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

The three members of the South Placer Wastewater Authority also 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”**.

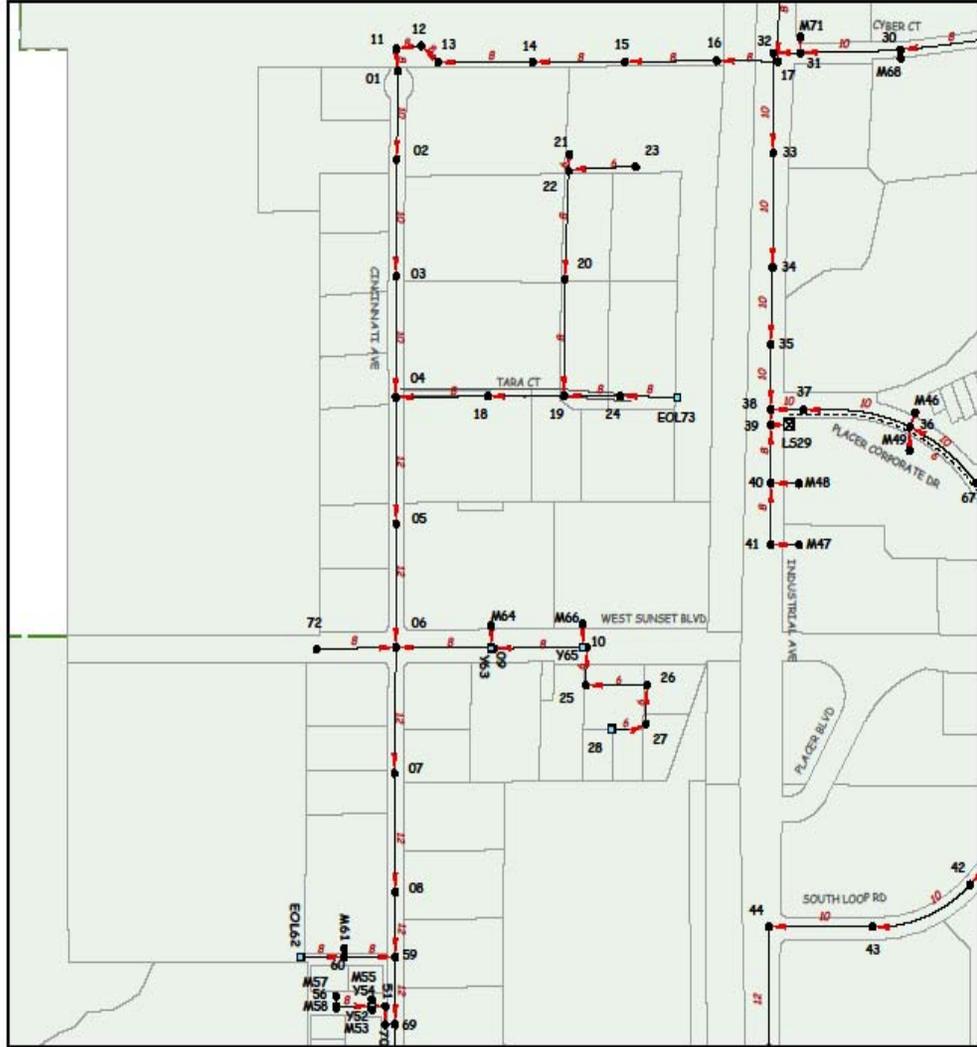
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**4.0 OPERATIONS AND
MAINTENANCE PROGRAM**

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 used by maintenance personnel. Index map copies and one of the individual map pages for CSA 2A3 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.



	CC4	CC5
CB3	CB4	CB5
CA3	CA4	CA5

SUNSET INDUSTRIAL PARK
 CSA 28 - ZONE 2, A3
 SANITARY SEWER

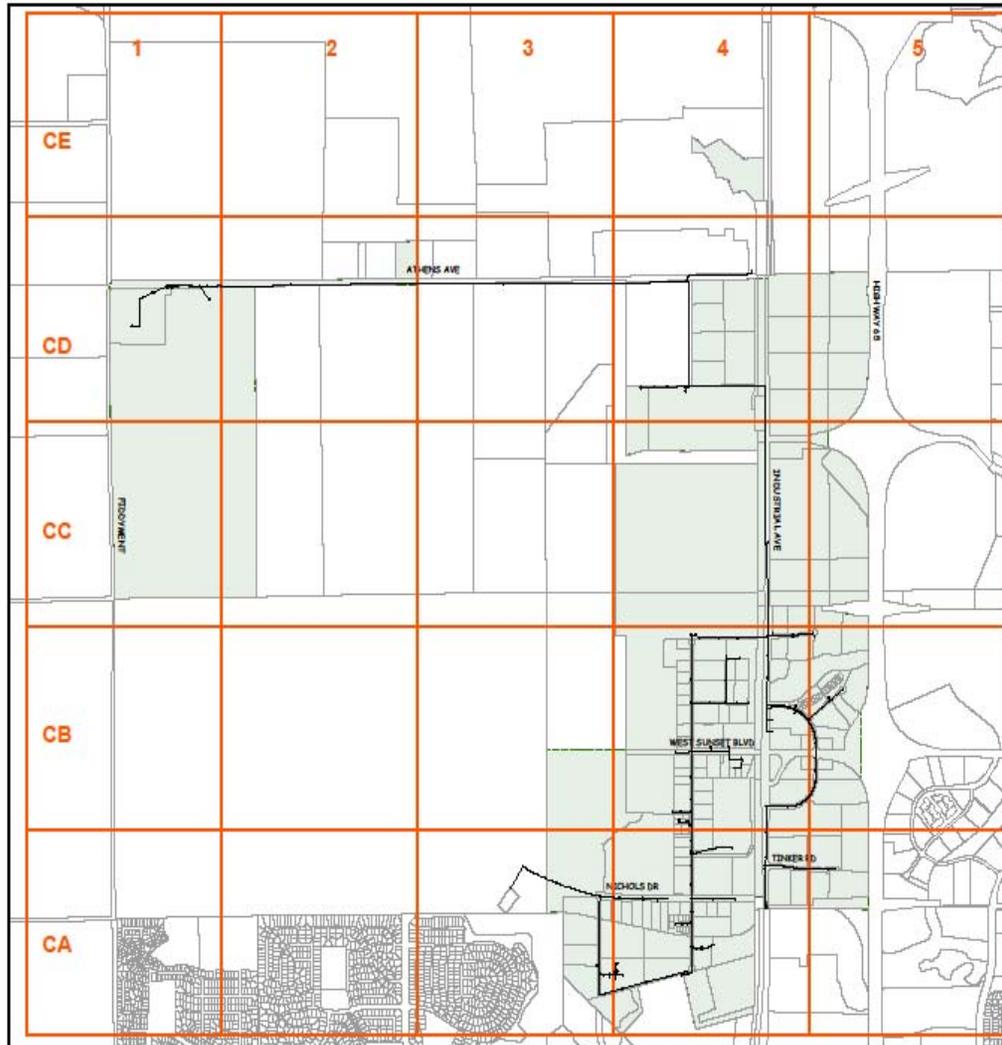
THIS MAP IS FOR INFORMATION ONLY AND IS NOT TO BE USED FOR DESIGN PURPOSES. PLACER COUNTY DOES NOT GUARANTEE ACCURACY OR CURRENTNESS OF THE INFORMATION. PERMITS ARE REQUIRED FOR EXCAVATION IN COUNTY RIGHTS OF WAY OR PUBLIC UTILITY EASEMENTS.

REV: 01/05/07

SCALE: 1" = 400'

PLACER COUNTY

FACILITY SERVICES



MAP INDEX

SUNSET INDUSTRIAL PARK

CSA 28 - ZONE 2, A3
SANITARY SEWER

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REV: 06/01/06



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 the 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 that 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 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 a Rehabilitation and Replacement (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 sewer lines.
- Hydro cleaning sewer lines.
- Visual inspection of manholes.
- 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 larger districts. For the large districts, conducting a condition assessment of the entire district at one time can be cumbersome and inefficient due to the sheer 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 CSA 2A3, the following information is available:

- The CSA has 10 miles of sewer pipe and two sewage pump stations.
- No smoke testing has been done in the district in the last five years.
- In the last five years, 4.2 miles of sewer pipe have been televised.
- No sewer system overflows have been recorded in the district.
- Most of the sewer system is between 15 and 40 years old.
- The sewer system experiences minimal infiltration and inflow.
- The two sewage pump stations are 15 and 5 years old respectively and in good condition.
- No condition assessment or R & R plans have been developed.

Therefore, it is recommended that 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 CSA 2A3 Rehabilitation and Replacement Schedule

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

Proposed Project	Completion Year
Televise Sewers	2010
Manhole Inspections	2012
Smoke Testing	Not needed
Pump Station Evaluations	2012
Condition Assessment Report	2012
Rehab and Replacement Plan developed (if needed)	2012
Funding Program (if needed)	2012

4d.0 Training

4d.1 Introduction

As mentioned in the introduction to this SSMP, a number of the 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 that 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 the 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 that 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 the 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 that 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 the 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 that 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 the 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 that 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 CSA 2A3 SSMP, the reader should review Section 7 of Volume 1 to better understand the methods chosen to control FOG in the CSA 2A3 Sewer System.**

7.2 Existing CSA 2A3 Sewer System

See the “Introduction” of this SSMP (CSA 2A3 History and Description) for a summary of the district sewer system. As noted at that location, the existing sewer system in the Sunset Industrial Area serves commercial and industrial properties and has no residential connections. At the same time, however, it also does not have any restaurants connected to the sewer system. The only grease interceptors that are inspected by the County are connected to the Material Recovery Facility (garbage recycling facility and landfill) and those are connected to floor and pit drains in the recycling area.

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 D”. A Public Education Outreach Program through the proposed newsletter might reach some of the small businesses located in the service area and the Material Recovery Facility’s interceptors should continue to be inspected.

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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 CSA 2A3 SSMP, the reader should review Section 8 of Volume 1 to better understand the methods chosen to evaluate the CSA 2A3 sewer system.**

8.2 Existing CSA 2A3 Sewer System

See the “Introduction” of this SSMP, CSA 2A3 History and Description, for a summary of the districts sewer system. The existing sewer system at Sunset consists of 10 miles of pipe from 6 inch to 21 inch and three sewage pump stations. There are no residential connections. Flow monitoring is available from a permanent flow meter used for billing to the City of Roseville who treats the area wastewater. Much of the sewer system is over 20 years old, with the original part of the system being 40 years old. Even though minimal I/I occurs in the pipes, due to their average age an in-depth analysis of the piping system is suggested in Section 4b.

As noted in the “History and Description”, substantial new development is proposed for this area of the County. That new development will not use the existing CSA sewer system and therefore, will not impact the analysis proposed below.

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 future capacity analysis proposed in Section 8.3, if improvements are needed to the CSA 2A3 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 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:

Proposed Assessment	Completion Year
Flow Metering	Completed
Capacity Analysis and Report Completed	2010
Capital Improvement Program and Report Completed	2010
Funding Program and Report Completed	2011

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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 of the 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 base line for evaluation.

Table 9.1 CSA 2A3 (Sunset) Measurement Categories

Category	Current District Total 7/1/08	Description	Unit	Number By Year				
				2004	2005	2006	2007	2008
SSOs	--	Caused by Roots	Count					
SSOs	--	Caused by Grease	Count					
SSOs	--	Caused by Contractors	Count					
SSOs	--	Caused by Vandalism	Count					
SSOs	--	From Lift Stations	Count					
SSOs	--	From Other Causes	Count					
SSOs	--	Total Category 1	Count	0	0	0	0	0
SSOs	--	Total Category 2	Count	0	0	0	0	0
SSOs	--	Total per 100 Miles per Year	Count	0	0	0	0	0
Gravity Sewers	6.7 Miles	CCTV Inspection Sewers	Miles	0	0.17	0	0.24	3.72
Gravity Sewers	6.7 Miles	Clean Sewers	Miles	3.58	0.25	4.39	0	6.24
Gravity Sewers	6.7 Miles	Sewer Rehabilitation Dig and Repair	Count	0	0	0	0	0
Gravity Sewers	6.7 Miles	Sewer Rehabilitation Pipe Lining	Linear Feet	0	0	0	0	0

Table 9.1 CSA 2A3 (Sunset) Measurement Categories (continued)

Category	Current District Total 7/1/08	Description	Unit	Number By Year				
				2004	2005	2006	2007	2008
Gravity Sewers	6.7 Miles	Smoke Test Sewers	Miles	0	0	0	0	0
Gravity Sewers	6.7 Miles	Root Treatment	Miles	0.15	0	0	0	0.15
Force Mains	3.4 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	163 Each	Manholes Rehabilitation	Count	5	0	0	0	0
Lift Stations	3 Each	Lift Station Major Rehabilitation	Count	Date not available	Date not available	Date not available	Date not available	0
Flow Meters Temporary	--	Number of Flow Meter Days	Count	Date not available	FY 2006-07 0	FY 2006-07 41	FY 2007-08 0	FY 2008-09 In Process

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

These requirements of the GWDR require 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, which will allow two full years of data to be used.

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 in 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 this district's 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 the 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 that 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 COMMUNICATIONS PROGRAM

11.1 Introduction

As mentioned in the introduction to this SSMP, a number of the 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 that can be found in its entirety in Volume 1 and 2. **The reader should refer to those binders for information regarding the “Communications 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 the 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 that 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.**