

**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 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.

**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 adjacent to Pleasant Grove Creek. CSA 2A3 was formed around the land served by the sewer to provide maintenance and operations of the sewer collection 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, 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 were 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 were 10 miles of sewer in the 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. 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**

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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 nine Placer County maintained public sewer systems and there is no reason to duplicate that information. These sections are located in SSMP Volumes 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 nine wastewater collection systems owned and maintained by Placer County (see Table Int-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. CSA 2A3 is a satellite collection system to the City of Roseville Regional Wastewater Treatment Plant. The legal authority for CSA 2A3 and the City of Roseville 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, it 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 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”** in Volume 2 and a separate copy can be obtained at the Facility Service’s 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://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 in its City Code sewer regulations. They can be found on the City’s website at [www.qcode.us/codes/roseville/](http://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”** in 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, 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”** in Volume 2.

### **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”** in 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 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”** in Volume 2.

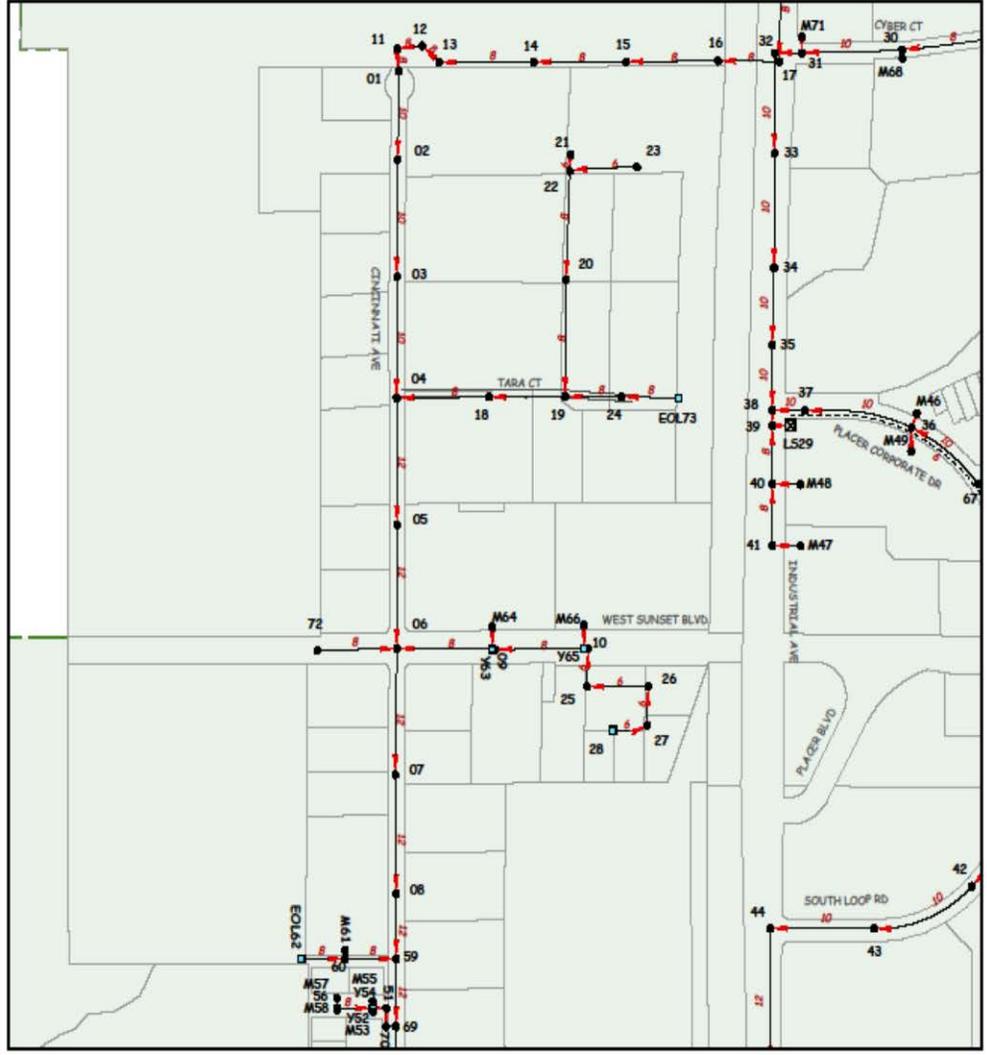
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**4.0 OPERATIONS AND  
MAINTENANCE PROGRAM**

**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.



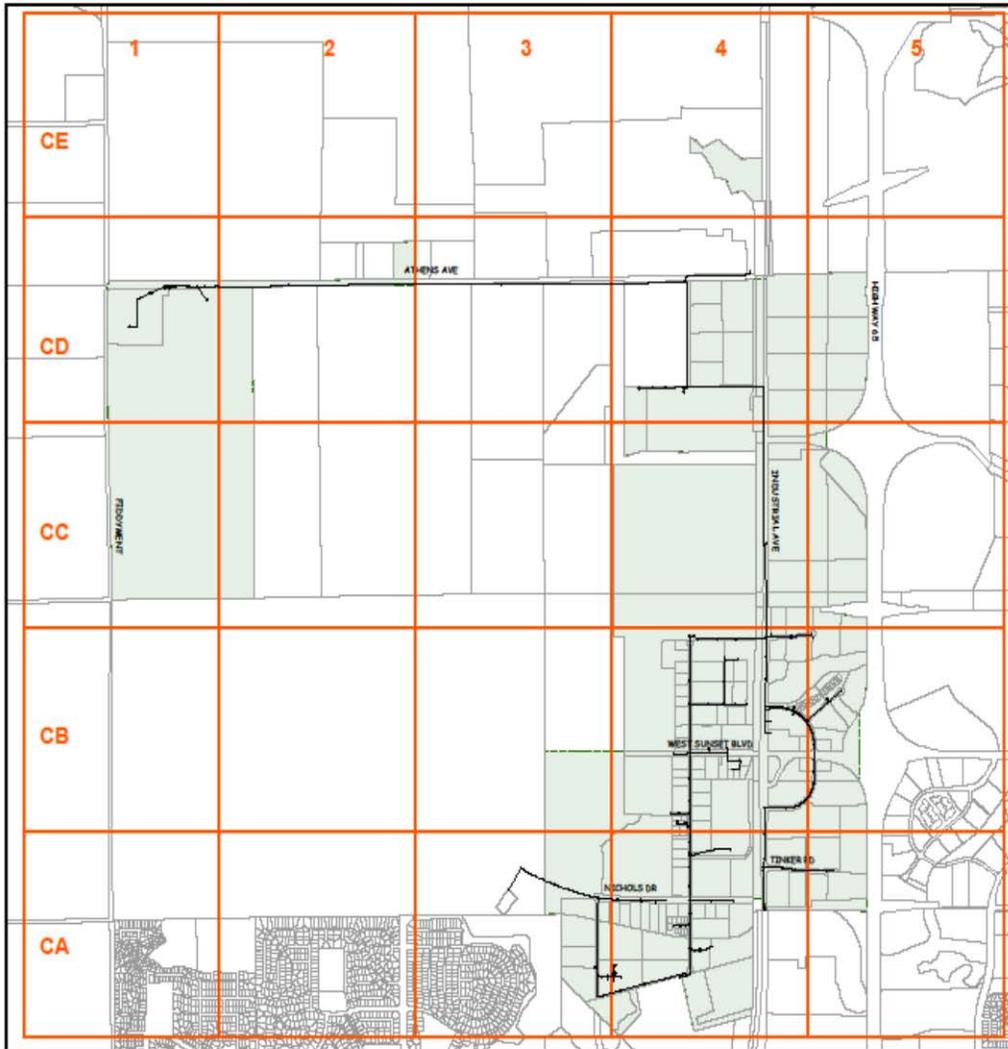
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CB3	<b>CB4</b>	CB5
CA3	CA4	CA5

**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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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 the 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 that 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 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 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 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 sewer lines.
- Hydro cleaning sewer lines.
- Visual inspection of manholes.
- Complete inspection of 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 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 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, 6.61 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.

### 4.3.3 CSA 2A3 Rehabilitation and Replacement Schedule

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

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

## 4.4 Training

### 4.4.1 Introduction

As mentioned in the introduction to this SSMP, a number of the requirements or sections of the SSMP provide data pertaining to all nine Placer County maintained public sewer systems and there is no reason to duplicate that 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 the 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 that 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 the 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 that 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 perform 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 the 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 that 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 the 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 that 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.**

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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 A” and “Program C”. 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/ Whitney consists of 10 miles of pipe from 6 inch to 21 inch and 2 sewage pump stations. There are no residential connections. Flow monitoring is available from two permanent flow meters used for billing to the City of Roseville who treats the wastewater generated from this area. 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 analysis of the piping system is suggested.

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) is “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:

<b>Proposed Project</b>	<b>Completion Year</b>
CCTV Sewers	2020*
Pump Station Evaluation	2020*
Condition Assessment Report	2021*
Capacity Analysis	2021*
Capital Improvement Program	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.

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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 base line 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 CSA 2A3 (Sunset) Measurement Categories**

Category	Units	Description	Unit	Number By Year				
				2008	2009	2010	2011	2012
SSOs	--	Caused by Roots	Count	0	0	0	0	0
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 Lift Stations	Count	0	0	0	0	0
SSOs	--	From Other Causes	Count	0	0	0	0	0
SSOs	--	Total Category 1	Count	0	0	0	0	0
SSOs	--	Total Category 2	Count	0	0	0	0	0
SSOs	--	Total SSOs	Count	0	0	0	0	0
Gravity Sewers	Miles	CCTV Inspection Sewers	Miles	3.72	.84	1.98	.07	0
Gravity Sewers	Miles	Clean Sewers	Miles	7.17	2.81	2.37	1.58	5.47
Gravity Sewers	Miles	Sewer Rehabilitation Dig and Repair	Count	0	0	0	0	0
Gravity Sewers	Miles	Sewer Rehabilitation Pipe Lining	Linear Feet	0	0	0	0	0

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

Category	Units	Description	Unit	Number By Year				
				2008	2009	2010	2011	2012
Gravity Sewers	Miles	Smoke Test Sewers	Miles	0	0	0	.18	.85
Gravity Sewers	Miles	Root Treatment	Miles	.15	.15	0	0	0
Force Mains	Miles	Force Main Pigged	Miles	0	0	2.18	0	0
Sewage Air Relief Valves	Each	ARV Maintenance	Count	0	6	3	20	7
Manholes	Each	Manholes Rehabilitation	Count	0	0	0	0	0
Lift Stations	Each	Lift Station Major Rehabilitation	Count	0	0	0	0	0

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 CSA 2A3 SSMP 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 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 five years. For specific trends, refer to the most recent SSMP self audit.

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SEWER SYSTEM MANAGEMENT PLAN**

## **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 nine Placer County maintained public sewer systems and there is no reason to duplicate that 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 SERVICE AREA 28, ZONE 2A3  
(CSA 2A3) SUNSET  
SEWER SYSTEM MANAGEMENT PLAN**

## **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 nine Placer County maintained public sewer systems and there is no reason to duplicate that information. These sections are located in SSMP Volumes 1 and 2. **The reader should refer to those binders for information regarding the “Communications Program” requirements.**

**PLACER COUNTY SERVICE AREA 28, ZONE 2A3  
(CSA 2A3) SUNSET  
SEWER SYSTEM MANAGEMENT PLAN**

**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 nine Placer County maintained public sewer systems and there is no reason to duplicate that 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.**