

Sunnyslope County Water District

Sewer System Management Plan

Sunnyslope County Water District Board Approval	September 13, 2007
Review Audit and Update	September 10, 2009
Review Audit and Update	March 2, 2012
Review Audit and Update	August 16, 2012
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Section I. Goals:	Page 2
Section II. Organization:	Page 2
Section III. Legal Authority:	Page 2
Section IV. Operation and Maintenance Program:	Page 2
Section V. Design and Performance Provisions:	Page 3
Section VI. Overflow Emergency Response Plan:	Page 3
Section VII. FOG Source Control Program:	Page 3
Section VIII. System Evaluation and Capacity Assurance Plan:	Page 4
Section IX. Monitoring, Measurement, and Program Modifications:	Page 5
Section X. Sanitary Sewer Management Plan Audits:	Page 5
Section XI. Communication Program:	Page 5

Section I. Goals:

The goal of the Sewer System Management Plan (SSMP) is to provide a plan and schedule to properly manage, operate, and maintain all parts of the sanitary sewer system. This will help reduce and prevent sanitary sewer overflows (SSO) as well as mitigate any SSOs that do occur.

Section II. Organization:

- A. Administrative and maintenance positions responsible for implementing measures in the Wastewater Collection System Management Plan, refer to:
 - ◆ Sunnyslope County Water District Emergency Response Plan & Operation and Maintenance Procedures – SSCWD Telephone List – Organizational Chart
- B. The chain of communication for reporting overflows, refer to:
 - ◆ Sunnyslope County Water District Emergency Response Plan & Operation and Maintenance Procedures – Sanitary Sewer Spill Contingency Plan

Section III. Legal Authority:

- A. Prevent illicit discharges into the sanitary sewer system.
- B. Control infiltration and connections from inflow sources, including satellite systems;
- C. Require that sewers and connections be properly designed, constructed, tested and inspected, ensure access for maintenance.
- D. Limit fats and greases and other debris that may cause blockages in the collection system, refer to:
 - ◆ Sunnyslope County Water District Code Book – Title 4 Sewer Service System – Chapters 4.04 General Provisions through 4.40 Enforcement

Section IV. Operation and Maintenance Program:

In order to reduce overflows, the elements listed below shall be implemented.

- A. Provide adequate operation and maintenance of facilities and equipment.
- B. Maintain an up-to-date map of the collection system showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves.
- C. Maintain relevant information to establish and prioritize appropriate Sewer System Management Plan activities (such as the immediate elimination of dry weather overflows or overflows into sensitive waters, and water containing threatened or endangered species or their habitats), and identify and illustrate trends in overflows, such as frequency and volume.
- D. Routine preventive operation and maintenance activities by staff and contractors; including a system for scheduling regular maintenance and

cleaning of the collection system with more frequent cleaning and maintenance targeted at known problem areas as well as a work order tracking system.

- E. Identify and prioritize structural deficiencies and implement short-term and long-term rehabilitation actions to address each deficiency. Rehabilitation or replacement of sewer pipes which are at risk of collapse or prone to more frequent blockages due to pipe defects. As required visual and video inspection of sewer pipes and a system for assessing and ranking the condition of sewer pipes.
- F. Provide training on a regular basis for staff in collection system operations, maintenance, and monitoring.
- G. Provide equipment and replacement parts inventories, including identification of critical replacement parts.

Section V. Design and Performance Provisions:

- A. Construction standards and specifications for the installation of new sewer systems, pump stations, and other appurtenances; and for rehabilitation and repair of existing sewer systems.
- B. Procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances, and for rehabilitation and repair projects, refer to:
 - ◆ Sunnyslope County Water District Emergency Response Plan & Operation and Maintenance Procedures – Wastewater Construction Specifications

Section VI. Overflow Emergency Response Plan:

- A. Collection system staff should be able to respond to a sewage spill in less than an hour from the first call and should be capable of meeting this response time day or night, every day of the week. Sunnyslope County Water District must own or have readily available emergency response equipment such as vacuum trucks, hydro flushers, pumps, temporary bypass hoses, and portable generators of adequate number and capacity to operate pump stations.
- B. Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner.
- C. Sunnyslope County Water District employs onsite high water alarm systems both PG&E and battery back-up powered at each lift station, refer to:
 - ◆ Sunnyslope County Water District Emergency Response Plan & Operation and Maintenance Procedures - Sanitary Sewer Spill Contingency Plan

Section VII. FOG Source Control Program:

- A. Prepare and implement a fat, oil and grease (FOG) source control program to reduce the amount of these substances discharged to the sewer collection system. This plan shall include the legal authority to prohibit discharges to the system and identify measures to prevent overflows

caused by fat, oil, and grease blockages of sewers. The elements of an effective grease control program may include requirements to install grease removal devices (such as traps or, preferably interceptors), design standards for the removal devices, maintenance requirements, Best Management Practices (BMP) requirements, record keeping, and reporting requirements. An effective grease control program must also include authority to inspect grease producing facilities, enforcement authorities, and sufficient staff to inspect and enforce the grease ordinance.

- ◆ Sunnyslope County Water District Code Book – Title 4 Sewer Service System – Chapters 4.04 General Provisions through 4.40 Enforcement

- 1) **Ridgemark Club House & Restaurant**

B. Sections of the sewer collection system subject to grease blockages and established cleaning and maintenance schedule for each section.

- ◆ Weekly Flushing

- 1) **Joes Lane south to Donald Drive**
 - 2) **Club House to Donna Lane**
 - 3) **Cheri Court to Ridgemark Estates Wastewater Treatment Ponds II**
 - 4) **Helen Court (every second week)**

- ◆ Monthly Hydro Cleaning

- 1) **Club House to Donna Lane**

- ◆ Every Two Months Hydro Cleaning

- 1) **Donald Drive to Marks Drive**

- ◆ Every Six Months Hydro Cleaning

- 2) **Complete Collection System**

C. Implement source control measures, for all sources of grease and fats discharged to the sewer system described in section “A” above, refer to:

- ◆ Sunnyslope County Water District Code Book – Title 4 Sewer Service System – Chapters 4.04 General Provisions through 4.40 Enforcement

Section VIII. System Evaluation and Capacity Assurance Plan:

Capital improvement plan (CIP)

- A. Evaluation of overflow events
- B. Design Criteria
- C. Capacity Enhancement Measures
- D. Schedule

Section IX. Monitoring, Measurement, and Program Modifications:

- A. Maintain relevant information
- B. Monitor each element of the SSMP
- C. Assess the success of the preventative maintenance program
- D. Update program elements
- E. Identify and illustrate SSO trends (frequency, location, volume)

Section X. Sanitary Sewer Management Plan Audits:

- A. Conduct periodic internal audits. (two year intervals)
- B. Identify deficiencies and correct

Section XI. Communication Program:

- A. Public outreach

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