

City of Stockton



Sewer System Management Plan (SSMP) 2025-2031

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Abbreviations and Acronyms

< = Less than

≤ = Less than or equal to

> = Greater than

≥ = Greater than or equal to

ADWF - Average Dry Weather Flow

BMP - Best Management Practice

Cal/EPA - California Environmental Protection Agency. State cabinet level agency comprised of six departments / boards: Air Resources Board, Department of Pesticide Regulations, Department of Toxic Substances Control, Integrated Waste Management Board, Office of Environmental Health Hazard Assessment, and the State Water Resources Control Board.

CCSD – Country Club Sanitary District

CCTV - Closed- Circuit Television

CHCF – California Health Care Facility

CIP - Capital Improvement Project

City - City of Stockton

CIWQS - California Integrated Water Quality System, State online database for reporting SSOs

COS - City of Stockton

CMMS - Computerized Maintenance Management System

CVCWA - Central Valley Clean Water Agency

DWQ - Department of Water Quality, a Department within SWRCB

EC - Environmental Control

ECO – Environmental Control Officer

FOG - Fats, Oils, and Grease

FSE - Food Service Establishment

**City of Stockton – Municipal Utilities Department
Sewer System Management Plan**

GI - Grease Interceptor (an underground multi-chambered vault to trap FOG)

GIS - Geographic Information Systems

I&I - Infiltration and Inflow. Groundwater or surface water entering sewer pipes through illegal connections, cracks, breaks, or loose pipe joints.

LRO – Legally Responsible Official

MGD - Million gallons per day, a measurement of flow

MUD - City of Stockton, Municipal Utilities Department

MUTCD – Manual on Uniform Traffic Control Devices

MRP - Monitoring and Reporting Program

NASSCO - National Association of Sewer Service Companies

NCYCC – Northern California Youth Correctional Center

O&M - Operations and Maintenance

OES - Office of Emergency Services

Order/General Order - SWRCB Order 2022-0103-DWQ; also referred to as WDR

OSHA - Occupational Safety and Health Administration

PACP – Pipeline Assessment Certification Program

PM - Preventative Maintenance

Port – Port of Stockton

SJCUMD – San Joaquin County Utility Maintenance Division

SJR - San Joaquin River

SOP - Standard Operating Procedures

SSMP - Sewer System Management Plan (required by SWRCB in 2006)

SSO - Sanitary Sewer Overflow (Sewage Spill)

SSOERP - Sanitary Sewer Overflow Emergency Response Plan

SWRCB - State Water Resources Control Board, also called State Board, a department within Cal/EPA

WRC – Wastewater Recovery Center sewage treatment plant at 2500 Navy Drive

WDR – General Waste Discharge Requirement (in this context refers to SWRCB Order 2022-0103-DWQ; also called General Order).

I. Chapter I – Prohibitions and Provisions

This chapter describes the sewage discharge prohibitions and provisions as stated in the WDR.

A. Prohibition

To meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, the City is required to comply with the following prohibitions:

- Any SSO that results in a discharge of untreated or partially treated wastewater to waters of the United States is prohibited, and
- Any SSO that results in a discharge of untreated or partially treated wastewater that creates a nuisance as defined in California Water Code Section 13050(m) is prohibited.

B. Provisions

As stated in the Order, the City agrees to meet the following provisions:

1. The City must comply with all conditions in the Order. Any noncompliance with the Order constitutes a violation of the California Water Code and is grounds for enforcement action.
2. Nothing in the general WDR shall be:
 - a) Interpreted or applied in a manner inconsistent with the Federal Clean Water Act, or supersede a more specific or more stringent state or federal requirement in an existing permit, regulation, or administrative/judicial order or Consent Decree;
 - b) Interpreted or applied to authorize a SSO that is illegal under either the Clean Water Act, an applicable Basin Plan prohibition or water quality standard, or the California Water Code;
 - c) Interpreted or applied to prohibit a Regional Water Board from issuing an individual National Pollutant Discharge Elimination System permit or WDR, superseding this general WDR, for a sanitary sewer system, authorized under the Clean Water Act or California Water Code; or
 - d) Interpreted or applied to supersede any more specific or more stringent WDR or enforcement order issued by a Regional Water Board.

3. The City shall take all feasible steps to eliminate SSOs. In the event that an SSO does occur, the City shall take all feasible steps to contain and mitigate the impacts of an SSO.
4. In the event of an SSO, the City shall take all feasible steps to prevent untreated or partially treated wastewater from discharging from storm drains into flood control channels or waters of the United States by blocking the storm drainage system and by removing the wastewater from the storm drains.
5. The City shall report SSOs in accordance with Section E1 of the general WDR.
6. The City understands that in any enforcement action, the State and/or Regional Water Boards will consider the appropriate factors under the duly adopted State Water Board Enforcement Policy, and, consistent with this policy, must consider the City's efforts to contain, control, and mitigate SSOs when considering the California Water Code 13327 factors. In assessing these factors, the State and/or Regional Water Boards will also consider additional factors listed in Section 5 of the WDR.
7. When an SSO occurs, the City shall take all feasible steps and necessary remedial actions to 1) control or limit the volume of untreated or partially treated wastewater discharged, 2) terminate the discharge, and 3) recover as much of the wastewater discharged as possible for proper disposal, including any wash down water.

The City shall implement all remedial actions to the extent they may be applicable to the discharge and not inconsistent with an emergency response plan, including the following:

- a) Interception and rerouting of untreated or partially treated wastewater flows around the wastewater line failure.
 - b) Vacuum truck recovery of sanitary sewer overflows and washdown water.
 - c) Cleanup of SSO-related debris at the overflow site.
 - d) System modifications to prevent another SSO at the same location.
 - e) Adequate sampling to determine the nature and impact of the release.
 - f) Adequate public notification to protect the public from exposure to the SSO.
8. The City shall properly manage, operate, and maintain all parts of the sanitary sewer it owns and operates, and shall ensure that the system operators (including employees, contractors, or other agents) are adequately trained and possess adequate knowledge, skills, and abilities.

9. The City shall allocate adequate resources for the operation, maintenance, and repair of its sanitary sewer system, by establishing a proper rate structure, accounting mechanisms, and auditing procedures to ensure an adequate measure of revenues and expenditures. These procedures must be in compliance with applicable laws and regulations and comply with generally accepted accounting practices.
10. The City shall provide adequate capacity to convey base flows and peak flows, including flows related to wet weather events. Capacity shall meet or exceed the design criteria as defined in the City's System Evaluation and Capacity Assurance Plan for all parts of the sanitary sewer system owned or operated by the City.
11. The City shall develop and implement a written SSMP and make it available to the State and/or Regional Water Board upon request. A copy of this document must be made available to the public at the Enrollee's office and/or available on the internet. This SSMP must be approved by the Enrollee's governing board at a public meeting.
12. In accordance with the California Business and Professions Code sections 6735, 7835, and 7835.1, all engineering and geologic evaluations and judgments shall be performed by or under the direction of registered professionals competent and proficient in the fields pertinent to the required activities. Specific elements of the SSMP that require professional evaluation and judgments shall be prepared by or under the direction of appropriately qualified professionals, and shall bear the professional(s)' signature and stamp.
13. The elements of the SSMP include:
 - a) Sewer System Management Plan Goal and Introduction
 - b) Organization
 - c) Legal Authority
 - d) Operations and Maintenance Program
 - e) Design and Performance Provisions
 - f) Spill Emergency Response Plan
 - g) Blockage Control Program
 - h) System Evaluation and Capacity Assurance, and Capital Improvements
 - i) Monitoring, Measurement, and Program Modifications
 - j) Internal Program Audits
 - k) Communication Plan
14. The SSMP must be updated every six (6) years, and must include any significant program changes. Re-certification by the governing board of the City is required when significant updates to the SSMP are made. To complete the re-certification process, the City shall enter the data in the Online SSO Database and mail the form to the State Water Board, as described in Section 5.5 of the WDR.

City of Stockton – Municipal Utilities Department
Sewer System Management Plan

The previous SSMP was approved by City Council Resolution No. 11 on May 10, 2011. Resolution No. 11 is included as Attachment C of Appendix 1. The updates required by Order 2022-0103-DWQ were approved by City Council Resolution XX-XXXX on September 23, 2025.

1 Chapter 1 - Sewer System Management Goal And Introduction

The City of Stockton's (City) Sewer System Management Plan (SSMP) was developed in compliance with the requirements of the State Water Resources Control Board (SWRCB) Order No. 2022-0103-DWQ, Statewide General Waste Discharge Requirement (WDR), dated December 6, 2022. The WDR is intended to provide a consistent statewide approach for reducing Sanitary Sewer Overflows (SSOs) and applies to all publicly owned collection system agencies consisting of more than one mile of pipe or sewer lines and which convey untreated wastewater to a publicly owned treatment facility. Each agency is required to develop and implement an SSMP that describes the procedures and activities necessary to effectively operate and maintain their wastewater collection system in order to prevent SSOs and to ensure proper notification should an SSO occur.

The purpose of the General Order No. 2022-0103-DWQ (Order) is to prevent SSOs. The City has prepared and implemented this SSMP to support this purpose. The City will monitor the effectiveness of this SSMP and the SSMP implementation to determine if deficiencies exist in the SSMP or SSMP implementation and will take appropriate steps to correct them.

1.1 Regulatory Context

The structure of this document follows the element numbering and nomenclature specified in the WDR. The SSMP includes an introduction as well as prohibitions and provisions stated in the WDR in addition to the eleven elements discussed in the following chapters:

Chapter 1 – Sewer System Management Plan Goal and Introduction

Chapter 2 –Organization

Chapter 3 – Legal Authority

Chapter 4 – Operation and Maintenance Program

Chapter 5 – Design and Performance Provisions

Chapter 6 – Spill Emergency Response Plans

Chapter 7 – Sewer Pipe Blockage Control Program

Chapter 8 – System Evaluation, \Capacity Assurance and Capital Improvements

Chapter 9 – Monitoring, Measurement and Program Modifications

Chapter 10 – Internal Audits

Chapter 11 – Communication Program

Appendix 1 provides the City Council **Resolution XX-XXXX** that approves the steps that the City took to ensure that it complies with the WDR requirement of the development and implementation of an SSMP.

This SSMP is intended to comply with the requirements of the WDR. Each section is organized into sub-sections as follows:

1. The WDR requirement for that element
2. Discussion of that element
3. Supporting documents associated with the discussion of the element, such as a list of supporting information or reference to the appendix (as applicable)

Elements within the City's SSMP are updated as needed to reflect the most up-to-date and accurate information available as well as to identify and document significant program changes. In compliance with Section 5.5 of the WDR, the SSMP will be reviewed and updated every six years. Significant program updates will be recertified by the City's governing board, as required.

1.2 Sewer System Management Plan Update Schedule

The goal of the SSMP is to provide a plan and schedule to properly manage, operate, and maintain all parts of the City's sanitary sewer system to prevent SSOs and mitigate any SSOs that do occur. A copy of the Order and the certified SSMP is available to personnel operating and maintaining the City's sanitary sewer system. A copy of the Order is also included as Attachment B of Appendix 1 of this SSMP. Pursuant to California Water Code Section 13267(b), the City will also comply with the SSO "Monitoring and Reporting Program No. 2022-0103 DWQ" and all future revisions, included by reference in the Order.

1.3 Sewer System Asset Overview

The City, located in San Joaquin County (County), California, owns and operates a wastewater collection, treatment and disposal system which provides sewer service to the City, Port of Stockton, and the surrounding urbanized County areas. The City's Wastewater Recovery Center (WRC), formerly Regional Wastewater Control Facility (RWCF), has a permitted 55 million gallon per day advanced tertiary treatment capacity and is located on over 800 acres in the southwestern portion of the City, adjacent to the San Joaquin River. On average, the WRC treats 30 million gallons of wastewater daily and discharges into the San Joaquin River under a National Pollutant Discharge Elimination System (NPDES) permit.

The City's sewage collection system consists of approximately 900 miles of gravity sewer main, 554 miles of lower lateral pipe, 27 pump stations, and 30 miles of pressurized force main that route sewage to the WRC. The City completed the RWCF Modifications Project. The Project included planning, designing, and constructing

wastewater treatment facilities that can meet current regulatory treatment goals and balance future potential regulatory requirements for most conditions in a cost-effective manner, while extending the life of existing assets within the available budget of \$230 million. The project includes a new headworks pump station, rehabilitated primary treatment, new secondary and tertiary treatments, and new and remodeled personnel buildings. The Basis of Design Report (BDR) for those facilities incorporates many of the Phase 2 projects identified in the 2011 Capital Improvement and Energy Management Plan as well as those improvements to meet the City's current National Pollution Discharge Elimination System (NPDES) permit issued by the Central Valley Regional Water Quality Control Board. The City's sewer collection system serves a population of approximately 320,030 (2024 CA Dept of Finance). The City has areas of unincorporated agricultural property. New connection requests from developments outside the City limits challenge the City's sewer system capacity during periods of prospective population and industrial growth.

Figure 1-2 is an up-to-date map of the City wastewater collections system.

The City wastewater collections system has approximately 90,000 service connections. Of those connections, approximately 95% are residential, 4.7% are commercial and less than 1% are industrial or institutional. The City maintains responsibility for operation and maintenance of lateral service connections up to the owner's cleanout; private property owners are responsible for the operation and maintenance of their connecting laterals upstream of, and including, their cleanout connection in accordance with Municipal Code Chapter 13.50.

The City conveys and treats waste discharges from five (5) satellite agencies. The satellite agencies and their respective waste discharge identification (WDID) numbers, if applicable, are as follows:

- Country Club Sanitary Maintenance District – WDID: N/A
- San Joaquin County Maintenance Division – WDID: 5SSO11035, 5SSO11471, 5SSO11480, 5SSO11482, 5SSO11483, 5SSO11484, 5SSO11485, 5SSO11486
- Port of Stockton – WDID: N/A
- California Health Care Facility – WDID: 5SSO18099

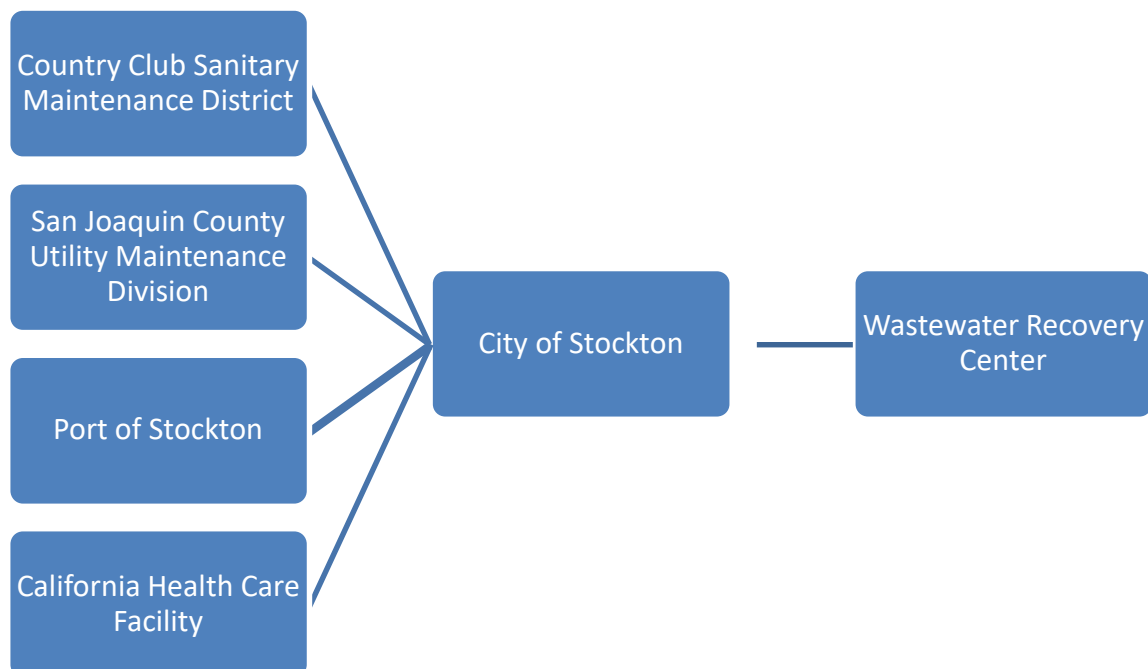


Figure 1-1 - Satellite Agencies

1.4 Supporting Documents

Appendix 1: City of Stockton, City Council authorizing the approval and implementation of the Sewer System Management Plan update.

- City of Stockton Council Resolution 01-0108, SSMP 2011-2015 Approval
- City of Stockton Council Resolution 2016-03-26-0302, SSMP 2016-2020 Updates Approval
- City of Stockton Council Resolution XXXXXX, SSMP 2025-2031 Updates Approval [UPDATE POST COUNCIL]

2 Chapter 2 - Organization

This chapter identifies the Authorized Representative to meet the SWRCB requirements for completing and certifying spill reports and the implementation and development of the SSMP. This chapter also includes City staff responsible for managing and maintaining the wastewater collection system and the responders to SSO events.

The organization elements of the City's SSMP and SSOERP are designed to ensure that every report of a SSO is dispatched to the appropriate response personnel to minimize the effects of the overflow with respect to its adverse impacts on public health, the environment, and property. This chapter fulfills the Organization Requirement of the SSMP as mandated by the GWDR.

2.1 Regulatory Requirements

The WDR section D.2 requirements for the Organization of the SSMP are listed below:

- (a) *The name of the Legally Responsible Official as required in section 5.1 (Designation of a Legally Responsible Official) of the Order;*
- (b) *The position titles, telephone numbers, and email addresses for management, administrative, and maintenance positions responsible for implementing specific Sewer System Management Plan elements;*
- (c) *Organizational lines of authority; and*
- (d) *The chain of communication for reporting SSOs, from receipt of a complaint or other information, including the person responsible for reporting SSOs to the State and Regional Water Board and other agencies if applicable (such as County Health Officer, County Environmental Health Agency, Regional Water Board and/or State Office of Emergency Services (OES)).*

2.2 Authorized Representative

The City's authorized representative in all wastewater collection system matters is the Director of Municipal Utilities (Director). The Director is responsible for implementing and maintaining all elements of this SSMP. The Deputy Municipal Utilities Director of Collections is authorized to act in the absence of the Director.

The Legally Representative Official for the City of Stockton is:

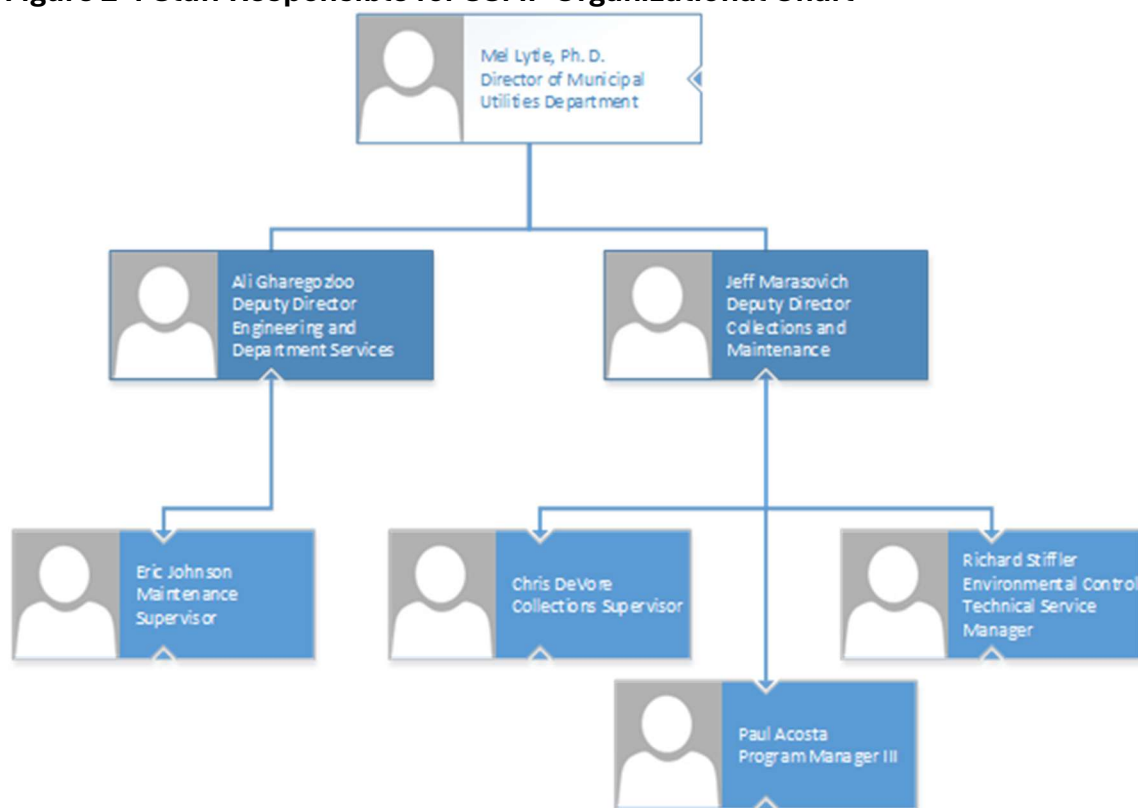
Mel Lytle, Ph.D., Director of Municipal Utilities: office telephone 209-937-8700

2.3 Responsibility for SSMP Development and Implementation

The City staff responsible for the SSMP development and implementation is listed in Table 2-1 below.

Table 2-1: Staff Responsible for SSMP Development and Implementation

SSMP Element	Name	Position	Phone Number
Goals & Organization Section D.1 & D.2	Mel Lytle, Ph.D.	Director	(209) 937-8700
Legal Authority Section D 3	Mel Lytle, Ph.D.	Director	(209) 937-8700
Operation and Maintenance Program Section D.4	Jeff Marasovich	Deputy Director	(209) 937-7113
	Chris DeVore	Collections Supervisor	(209) 937-8725
	Eric Johnson	Maintenance Supervisor	(209) 937-8788
Design and Performance Provisions Section D.5	Ali Gharegozloo	Deputy Director	(209) 937-8787
Spill Emergency Response Plan Section D.6	Richard Stiffler	Environmental Control Technical Service Manager	(209) 937-8740
	Chris DeVore	Collections Supervisor	(209) 937-8725
Sewer Pipe Blockage Control Program Section D.7	Richard Stiffler	Environmental Control Technical Service Manager	(209) 937-8740
System Evaluation, Capacity Assurance and Capital Improvements Section D.8	Ali Gharegozloo	Deputy Director	(209) 937-8787
Monitoring & Program Modifications Section D.9	Jeff Marasovich	Deputy Director	(209) 937-7113
	Chris DeVore	Collections Supervisor	(209) 937-8725
Internal Audits Section D10	Paul Acosta	Program Manager III	(209) 937-8994
Communication Program Section D 11	Jeff Marasovich	Deputy Director	(209) 937-7113

Figure 2-1 Staff Responsible for SSMP Organizational Chart

2.4 SSO Response and Reporting Chain of Communication

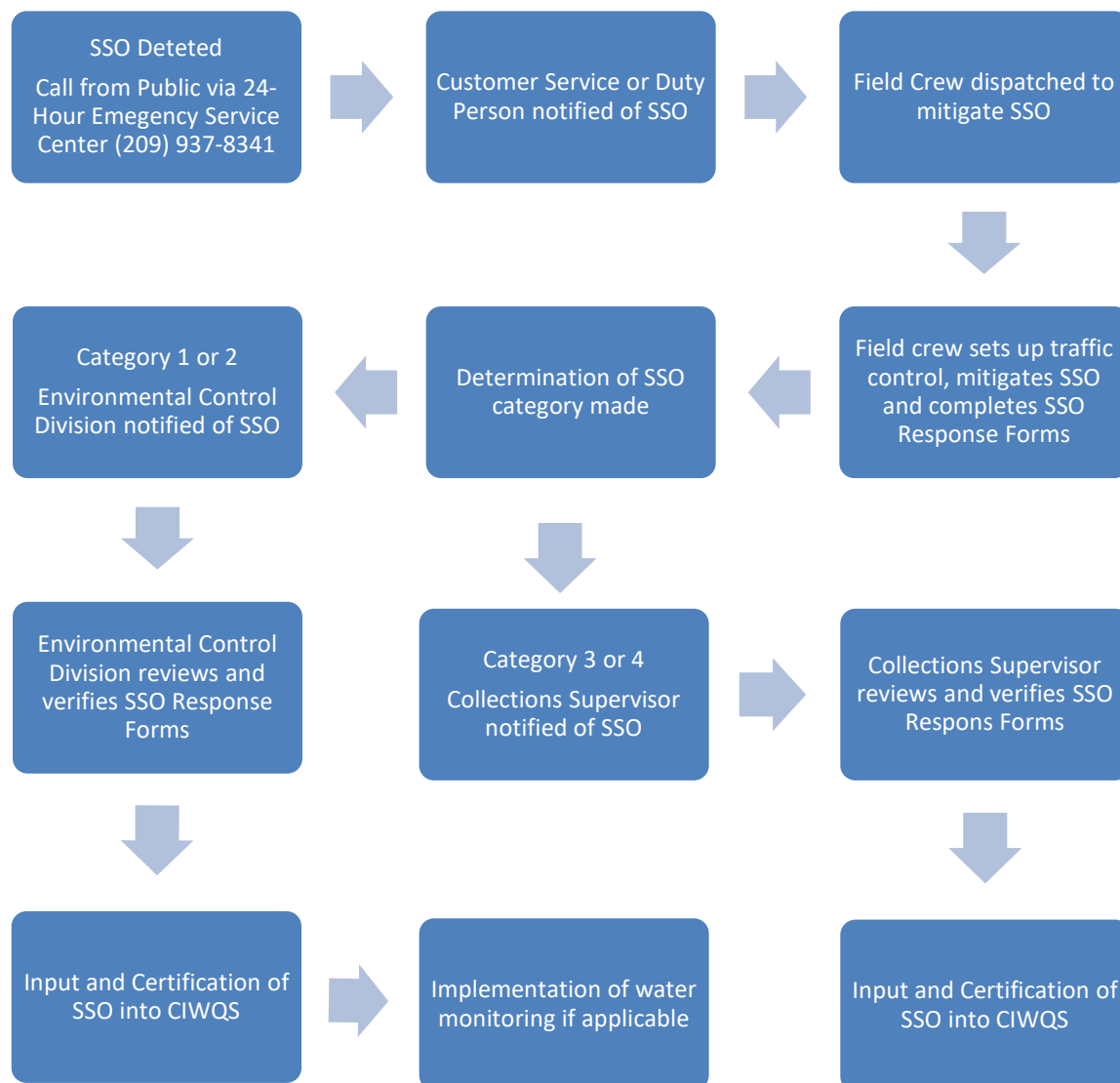
The City currently maintains SSO Response Forms that provide the required chain of communication information and are available for review in the City's SSOERP. Chapter 6 – Spill Emergency Response Program details the procedures and responsibilities during an SSO event, and the process is briefly summarized below. Once a detection of an SSO is reported, either by the public or City personnel, MUD personnel will be dispatched to the scene. Once at the scene MUD staff will:

- Investigate the site
- Determine the cause of the problem
- Request reinforcement, if necessary
- If possible, notify the responsible party if SSO is not caused by the City's collection system
- Contain and mitigate
- Correct the SSO and clean-up
- Notify the proper agencies (RWQCB, San Joaquin County Public Works, Delta Water Supply Project, Alameda County Water District, Contra Costa Water District, Santa Clara Valley Water District), as appropriate

- Document response actions
- Complete the internal SSO Response Forms
- Report the SSO in the CIWQS SSO Online Reporting Database

No later than the next business day, the internal SSO Response Forms are forwarded to the Collection System Supervisor and the Environmental Control Officer (ECO) as appropriate. Any debriefings of the respondents to the SSO will be conducted by the ECO. The internal SSO Response Forms are utilized to document the SSO event, communicate SSO event to all appropriate City staff internally, enter all required information into the CIWQS on-line database, and to certify the SSO by the Legally Responsible Official (LRO).

The organization chart identifies the steps taken when an SSO is identified. A copy of the City of Stockton’s “Sanitary Sewer Overflow Emergency Response Plan” is available in Appendix 4.

Figure 2-2: SSO Response and Reporting Chain of Communication

2.5 Supporting Documents

- [UPDATE POST COUNCIL]Appendix 1: City of Stockton, Council Resolution No.
- Appendix 3: Municipal Utilities Department Organization Charts
- Appendix 4: City of Stockton Sanitary Sewer Overflow Emergency Response Plan (SSOERP)

3 Chapter 3 – Legal Authority

This chapter of the SSMP discusses the City's legal authority to comply with the SSMP requirements, as provided in its Municipal Code and agreements with satellite agencies. All Stockton Municipal Codes can be viewed and downloaded on the City's website: www.stocktongov.com.

3.1 Regulatory Requirements

The WDR section D.3 requirements for the Legal Authority of the SSMP are summarized below:

The City must demonstrate, through collection system use ordinances, service agreements, or other legally binding procedures, that it possesses the necessary legal authority to:

- (a) Prevent illicit discharges into its sanitary sewer system (examples may include I/I, stormwater, chemical dumping, unauthorized debris and cut roots, etc.).*
- (b) Require that sewers and connections be properly designed and constructed.*
- (c) Ensure access for maintenance, inspection or repairs for portions of the lateral owned or maintained by the Public Agency.*
- (d) Limit the discharge of fats, oils and grease and other debris that may cause blockages.*
- (e) Enforce any violation of its sewer ordinances, service agreements, or other legally binding procedures; and*
- (f) Obtain easement accessibility agreements for locations requiring sewer system operations and maintenance, as applicable.*

3.2 Illicit Discharge Prevention

Contained in the Stockton Municipal Code, Chapter 13, are provisions that restrict what may be put in the sanitary sewers and storm sewers. Stockton has a separate storm water and wastewater sewer system. The following list provides the pertinent Municipal Codes that prevent illicit discharges into the City's sanitary sewer system.

- Title 13, Chapter 13.08.100 – General Discharge Prohibition
- Title 13, Chapter 13.08.110 – Quantity of Discharge
- Title 13, Chapter 13.08.120 – Limitations on Point of Discharge
- Title 13, Chapter 13.08.140 – Excessive Discharge
- Title 13, Chapter 13.08.160 - Holding Tank Waste.
- Title 13, Chapter 13.08.170 - Wash Rack Waste.

- Title 13, Chapter 13.08.180 - Draining of Swimming Pools
- Title 13, Chapter 13.08.190 - Conditions of Laterals and Sewer Connections
- Title 13, Chapter 13.08.200 - Connection to Sanitary Sewerage System

3.3 Agreements with Other Agencies

The City has additional legal requirements with other agencies, which are described in this section for reference.

3.3.1 Country Club Sanitary District

The City has an agreement with the Country Club Sanitary District (CCSD) to convey and treat all of its wastewater discharged into the City's collection system. CCSD provides wastewater collection services to approximately 1,100 residents in small County area bounded by Pershing Avenue to the east, Smith Canal to the south, Michigan Avenue to the north and Franklin Avenue to the west. As part of the regionalization of wastewater services, the City entered into an agreement with CCSD on 1979 to provide wastewater conveyance and treatment services.

3.3.2 San Joaquin County Utility Maintenance Division

The City has an agreement with the San Joaquin Utility Maintenance Division (SJCUMD) to convey and treat all of its wastewater discharged into the City's collection system from the Pacific Gardens Sanitary District, Lincoln Village Maintenance District and the Colonial Heights Maintenance District. As part of the regionalization of wastewater services, the City entered into an agreement with SJCUMD on 1976 to provide wastewater conveyance and treatment services.

3.3.3 Port of Stockton

The City has an agreement with the Port of Stockton (Port) to convey and treat all of its wastewater discharged into the City's collection system from Rough and Ready Island. The Port provides wastewater collection services to approximately 5 million square feet of warehouses, 1 million square feet of transit sheds and dock buildings fronting the Stockton Deep Water Channel. The City originally contracted with the Navy in 1973 when Rough and Ready Island was managed by the Navy. As part of the transfer of Rough and Ready Island from the Navy to the Port, the City entered into an updated agreement with the Port in 2000.

3.3.4 California Health Care Facility

The City has an agreement with the California Health Care Facility (CHCF) to convey and treat all of its wastewater discharged into the City's collection system. CHCF is

a 1.4 million square foot facility is certified to provide intermediate level care and to complement less acute treatment for the Department of Corrections and Rehabilitation. CHCF is comprised of 54 buildings that provides housing and treatment for approximately 1,700 inmate-patients and is staffed by approximately 2,500 people.

3.4 Sewer Construction Standards

Contained in the Stockton Municipal Code, Chapter 13 and Chapter 15 are provisions that require sewers, connections, and laterals are properly designed and constructed.

- Title 13, Chapter 13.08.020 - Reference to Plumbing Ordinance
- Title 13, Chapter 13.50.040 – Standards for Maintenance of Laterals
- Title 13, Chapter 13.50.060 – Repair Requirements
- Title 15, Chapter 15.08.010 - Adoption of California Building Code
- Title 15, Chapter 15.16.010 - Adoption of California Plumbing Code
- Title 15, Chapter 15.20.010 - Adoption of California Mechanical Code

All plumbing Ordinances shall remain in full force an effect, and nothing contained herein shall be construed as to waive any requirements contained therein.

City of Stockton has Standard Specifications for Sewer construction adopted November 25, 2003: Section 71 – Sanitary Sewers and Storm Sewers and Section 74 – Storm and Sanitary Pumping Plant Equipment. The Standard Specifications may be found on the City’s web page.

3.5 Collection System Access

Contained in the Stockton Municipal Code, Chapter 13 are provisions that allow City access for maintenance, inspection, or repairs for portions of the laterals owned and maintained by the City.

- Title 13, Chapter 13.08.340 - Inspection, Sampling, and Photographs
- Title 13, Chapter 13.50.040 – Standards for Maintenance of Laterals
- Title 13, Chapter 13.50.060 – Repair Requirements

3.6 Fats, Oils and Grease Discharge Limitations

Contained in the Stockton Municipal Code, Chapter 13, are provisions that limit the discharge of fats, oils, and grease into the wastewater collection system.

- Title 13, Chapter 13.40 - Discharges of Fats, Oils, and Grease from Food Service Establishments

3.7 Enforcement

Contained in the Stockton Municipal Code, Chapter 13, are provisions that allow the City to enforce any violation of its sewer ordinances including the authority to refuse, discontinue or terminate service if appropriate. The Municipal Code also empowers the City to issue administrative, civil, and criminal penalties that may accrue to users that violate code provisions.

- Title 13, Chapter 13.08.380 - Suspension of Permit.
- Title 13, Chapter 13.08.390 – Refusal, Discontinuance or Termination of Service
- Title 13, Chapter 13.50.050 – Public Nuisance Conditions

Table 3-1: Summary of Legal Authorities

Requirement	Municipal Code	Standard Plans and Specifications
Prevent Illicit Discharges		
Prevent illicit discharges into the wastewater collection system	13.08.010, 13.08.100	
Limit the discharge of fats, oils, and grease and other debris that may cause blockages	13.40.010, 13.40.040	
Control infiltration and inflow (I/I) from private service laterals	13.08.160, 13.08.170, 13.08.180,	
Proper Design and Construction		
Require that sewers and connection be properly designed and constructed	13.08.020, 15.08.010, 15.16.010, 15.20.010	Section 71, Drawing 45, 45A, 45B, 46, 46A, 47, 47A, 47B, 48, 49
Require proper installation, testing, and inspection of new and rehabilitated sewers	13.08.020, 13.08.340, 15.16.010	Section 71
Access to Laterals		
Require that laterals and connection be properly designed and constructed	13.08.190, 13.50.010	Section 71, Drawing 62, 63, 64
Clearly define City responsibility and policies	13.50.030, 13.50.060	
Ensure access for maintenance, inspection, or repairs for portions of the service lateral owned or maintained by the City	13.50.040	
FOG Source Control		
Requirements to install grease removal devices (such as traps or interceptors)	13.40.080	
Design standards for the grease removal devices	13.40.100	Drawing 65, 65A, 66
Maintenance requirements, BMP requirements, record keeping and reporting requirements for grease removal devices	13.40.060	
Authority to inspect grease producing facilities	13.08.040, 13.40.010	
Enforcement		
Enforce any violations of its sewer ordinances	13.08.030, 13.08.040, 13.08.380, 13.08.390, 13.50.110	

4 Chapter 4 – Operation and Maintenance Program

This chapter of the SSMP presents the City’s wastewater collection system operations and maintenance (O&M) program.

Regulatory Requirements

The WDR section D.4 requirements for the Operations and Maintenance Program are:

- (a) Maintain an up-to-date map of the sanitary sewer system, showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable stormwater conveyance facilities.*
- (b) Describe routine preventative operation and maintenance activities by staff and contractors, including a system for scheduling regular maintenance and cleaning of the sanitary sewer system with more frequent cleaning and maintenance targeted at known problem areas. The Preventative Maintenance (PM) program should have a system to document scheduled and conducted activities, such as work orders.*
- (c) Provide training on a regular basis for staff in sanitary sewer system operations and maintenance and require contractors to be appropriately trained.*
- (d) Provide equipment and replacement part inventories, including identification of critical replacement parts.*

4.1 Updated Map of Sanitary Sewer System

The City of Stockton maintains “Cityworks” for use as the Computerized Maintenance Management System (CMMS) and “ArcGIS” (map software available to selected City Employees). Associated hard copy block map books for Stormwater and Sanitary Sewer are available for each field crew. The City utilizes a web based browser that allows a read only version of the maps to be viewed in digital format.

4.1.1 Map Corrections

Maps are updated on an as needed basis with information obtained from field crews. The official map “office copy” is maintained at the MUD Collection Systems Office. When updates are found in the field, the field person notes on a copy of the map book page and informs the City’s GIS Technician. The GIS Technician then updates the map book and the digital map files.

4.1.2 Map Additions

New subdivisions, and extensions to existing facilities are submitted by the Public Works Department to MUD, and the digital map files are updated after the system segment is accepted by the City.

4.2 Preventative Operation and Maintenance Activities

City of Stockton, Municipal Utilities Department (MUD) uses Cityworks Software to maintain a catalogue of the storm and sewer system assets: pipes, valves, maintenance holes, lamp holes and pump stations. This system can generate, track and print work orders for preventative maintenance, corrective maintenance, and emergency repairs.

4.2.1 Inspection and Condition Assessment

The City of Stockton has conducted closed circuit television inspection, (CCTV) of nearly all its gravity sewer lines. The City conducts on-going CCTV inspection by collection system area to determine the overall condition of that respective area. The findings of the CCTV inspections are used to determine CIP projects and immediate rehabilitation and replacement needs.

CCTV inspections are conducted in accordance with the current professional practices for sewer line inspection as recommended by National Association of Sewer Service Companies (NASSCO), and the Pipeline Assessment Certification Program (PACP), guidelines.

Any sewer line found to have defects, such as stoppages or physical damage, from any cause, will be cleaned and/or repaired on a first priority basis. Stoppages and/or damage may be discovered by City crews doing regular maintenance or by the public at large. Citizens are encouraged to call the City of Stockton Hot Line, at (209) 937-8341, any time they witness or experience a sewer related problem.

Cityworks data is used to analyze data from system inspections and maintenance activities. Analysis is used to determine system areas and components which are prone to root-intrusions which potentially results in system backups or failures.

4.2.2 Gravity Mains

Collection system PM on sewer lines and storm water catch basins is done by the Collections Division. Sewer lines are put on a cleaning frequency based on historical information such as overflows, blockages, historical cleaning findings, and repairs. The historical information determines the cleaning frequency and is adjusted when necessary.

Preventative maintenance is scheduled on either a monthly, quarterly, semi-annual, annual or multi-annual cleaning frequency based on historical information. Cityworks produces work orders for the requested period with a due date of 14-days. Staff are assigned the work by the Collection Systems Supervisor. If a line has a service problem between PM work orders or a line with no previous history develops a problem; the line is cleaned and CCTV'd. The PM schedule is re-evaluated and the line may move to the next more frequent PM schedule, (semi-annual moves to quarterly, quarterly moves to monthly, etc), or be moved to the next less frequent PM schedule, repaired or scheduled for other appropriate corrective action.

Service calls are evaluated by Collections systems crews and if additional work is required the work is prioritized and assigned to City staff for repair. As an alternative, subcontractors may be contacted for extensive repair work, line rehabilitation or line replacement. MUD has contracts with local construction companies for backlog repair work as well as street and sidewalk restoration.

All gravity sanitary sewers 15-inches in diameter or smaller are currently scheduled to be cleaned at least once every seven years. Sewer mains larger than 15-inches in diameter will be cleaned on an as needed basis.

4.2.3 Pump Stations

Preventative maintenance at sanitary lift and pump stations and storm water pump stations are done by Maintenance Division. Cleaning at sanitary lift/pump stations may be done by Collections Division at the request of the Maintenance Division if a problem is noticed with the wet well or lines (i.e. “grease cap” in wet well). The City’s CMMS processes capture data for root cause analysis and inform maintenance program development for preventative maintenance activities in problem areas, such as areas with detected root-intrusion, or other system failure causes.

4.3 Training Program

MUD has established training programs for all employees in the department. Training records are maintained with the divisional Program Managers and MUD Safety Division.

4.3.1 Health and Safety Training

The following training is provided to all Collections and Maintenance Division staff:

First Aid & CPR & AED	Trenching & Shoring
Lock Out/Tag Out Procedures	Blood-borne Pathogens
First Responder Awareness	Confined Space Entry
Traffic Control	Falls & Fall Protection
Hazard Communication	Hazardous Materials Management Plan
Overflow Emergency Response	Customer Service
Heat Stress Prevention	Hand Protection
Eye Safety	
Self-contained Breathing Apparatus (with Fit-testing in March every year)	

4.3.2 Equipment Training

The following specific equipment training is offered as needed for appropriate staff:

Hydraulic Rodder	Combination hydro/vac
Backhoe Operation	Forklift Training
CCTV (use and repair)	Boom & Crane Training
	Arc Flash Protection

4.3.3 Ad Hoc Training

The City field staff also conducts monthly tail-gate safety meetings. There is also available; computer and software training, pump and engine maintenance, electrical, mechanical, environmental course work and study.

4.3.4 SSO Training

The City requires contractors to be properly trained with SSO procedures and all contractors are made aware of the City's SSO Emergency Response Plan (SSOERP) documents and procedures. All contractors are given a copy of the SSOERP prior to the start of work.

4.4 Equipment and Replacement Part Inventories

Stockton MUD maintains a Stores Warehouse at 2501 Navy Drive with replacement parts such as maintenance hole covers, consumable parts such as gloves, lamps and batteries, and replacement parts for valves, pumps and motors. Replacement parts have been identified for pumps, motors, and valves and are in stock at MUD Stores.

4.4.1 Pump Station Redundancy

The City's wastewater pump stations are designed with redundancy such that they have a backup pump available for immediate operation in the event of pump failure. The large capacity pump stations have spare mechanical seals stored on site.

4.5 Supporting Documents

- Appendix 5: Map Book Sample
- Appendix 6: Cityworks Work Order
- Appendix 7: Training Record Sample
- Appendix 8: Parts Inventory Sample
- 2035 Wastewater Master Plan

5 Chapter 5 – Design and Performance Provisions

This chapter of the SSMP documents the City’s design and performance provisions.

5.1 Regulatory Requirements

The WDR section D.5 requires the City to have the following design and performance provisions:

- (a) Design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary 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.*

5.1.1 Design and Construction Standards

City of Stockton has Design and Construction Standard Specifications and Standard Drawings adopted by the City (latest revision November, 2003) as a guide for standardization of Public Works projects with in the City. These Standard Specifications and Standard Drawings are available on the City’s website: www.stocktongov.com.

The Design and Construction Standard Specifications contain guidelines and requirements for the development plan and permit processing procedures under the following sections:

- Section 4 – Scope of Work
- Section 5 – Control of Work
- Section 6 – Control of Materials
- Section 7 – Legal Relations and Responsibility
- Section 8 – Prosecution and Progress
- Section 9 – Measurement and Payment

5.1.2 Rehabilitation and Replacement Plan

The City of Stockton has conducted closed circuit television inspection, (CCTV) of nearly all its gravity sewer lines. The City conducts on-going CCTV inspection by collection system area to determine the overall condition of that respective area. The findings of the CCTV inspections are used to determine CIP projects and immediate rehabilitation and replacement needs.

5.1.3 Engineering Judgment Disclaimer

The Standard Specifications and Standard Drawings are not intended to be a substitute for professional engineering knowledge, experience or judgment. Any deviations from what is contained in the documents must be approved by the City Engineer.

The City's Design and Construction Standard Specifications and Standard Drawings, for use in all City construction contracts, include a comprehensive set of specifications for sewer system pipelines and facility construction. The City contracts with a design engineer, when needed, for the development of design drawings and specifications for sewer pipeline and pump station rehabilitation and replacement projects.

5.1.4 Sanitary Sewer

The design and construction standards for sanitary sewer systems are addressed in section 71 of the Standard Specifications and Standard Drawings. Details for sanitary sewer systems are also provided in Standard Drawings 45 thru 66.

5.1.5 Pump Stations

The design and construction standards for pump stations are prepared in accordance with the Municipal Utilities Department Pump Station Guidelines and as approved by the Director of Municipal Utilities. The Municipal Utilities Department Pump Station Guidelines document is also available on the City website. Temporary maintenance holes for pump stations are provided in Standard Drawings 67 and 67A.

5.2 Procedures and Standards

Inspection and testing of new sewers, pumps and other appurtenances is addressed in the Standard Specifications and Standard Drawings document section 71. The following list provides the sections pertaining to inspection and testing of the sanitary sewer system:

- 71-1.11 – Testing
- 71-1.11A – Cleaning
- 71-1.11B – Deflection Test for ABS, PVC and HDPE Pipe
- 71-1.11C - General
- 71-1.11D – Water Exfiltration Test
- 71-1.11E – Water Infiltration Test
- 71-1.11F – Air Pressure Test
- 71-1.11G – Televising of Sanitary Sewers

5.3 Supporting Documents

- City of Stockton Standard Specifications and Standard Drawings
- Municipal Utilities Department Pump Station Guidelines

6 Chapter 6 – Spill Emergency Response Plan

The City developed a Sanitary Sewer Overflow Emergency Response Plan (SERP) and a Sanitary Sewer Overflow Standard Operating Procedure (SOP) that are designed to support an orderly and effective response to spills. The SERP is included as Appendix 4 of this SSMP, the SOP is included as Attachment 5 of the SERP. The SERP provides guidelines for the City personnel to follow in responding to, cleaning up, and reporting spills that may occur within the City's service area.

6.1 Regulatory Requirements

As required by WDR section D.6, the City shall develop and implement an overflow emergency response plan that identifies measures to protect public health and the environment. At a minimum, this plan must include the following:

- (a) Notify primary responders, appropriate local officials, and appropriate regulatory agencies of a spill in a timely manner;;*
- (b) Notify other potentially affected entities (for example, health agencies, water suppliers, etc.) of spills that potentially affect public health or reach waters of the State;*
- (c) Comply with the notification, monitoring and reporting requirements of this General Order, State law and regulations, and applicable Regional Water Board Orders;*
- (d) Ensure that appropriate staff and contractors implement the Spill Emergency Response Plan and are appropriately trained;*
- (e) Address emergency system operations, traffic control and other necessary response activities;*
- (f) Contain a spill and prevent/minimize discharge to waters of the State or any drainage conveyance system;*
- (g) Minimize and remediate public health impacts and adverse impacts on beneficial uses of waters of the State;*
- (h) Remove sewage from the drainage conveyance system;*
- (i) Clean the spill area and drainage conveyance system in a manner that does not inadvertently impact beneficial uses in the receiving waters;*
- (j) Implement technologies, practices, equipment, and interagency coordination to expedite spill containment and recovery;*
- (k) Implement pre-planned coordination and collaboration with storm drain agencies and other utility agencies/departments prior, during, and after a spill event;*

- (l) Conduct post-spill assessments of spill response activities;*
- (m) Document and report spill events as required in this General Order; and*
- (n) Annually, review and assess effectiveness of the Spill Emergency Response Plan, and update the Plan as needed.*

6.2 Spill Detection

The processes that are employed to notify the City of the occurrence of an spill include: observation by the public, receipt of an alarm, or observation by City staff during the normal course of their work. The public can notify the City of an spill by calling the 24-hour emergency service center at (209) 937-8341. The emergency service center then notifies Customer Service or the after hours Stand-by Duty Person to initiate the spill response.

6.3 Spill Response

When a report of a possible spill is received, it triggers an immediate response to identify and correct the problem. The following sections outline the response procedures undertaken by the City during an spill.

6.3.1 Investigation and Assessment

Following notification of a possible sanitary sewer overflow, a crew is dispatched to conduct an investigation. The initial response team is responsible for assessing the cause of the problem and determining the level of effort needed to correct the problem. If the overflow is confirmed, the Supervisor or highest level staff person on-site documents the relevant spill information on the spill response forms.

6.3.2 Notify Response Personnel

The Supervisor or highest level staff person that initially arrives on site is responsible for immediately notifying appropriate spill response personnel. Response personnel are dispatched to the site based on the following criteria:

- Source of the spill
- Volume of the spill
- Severity of the spill

6.3.3 Stop and Contain Spill

The response personnel are responsible for determining the most effective method(s) to:

- Control or limit the spill volume discharged;
- Terminate the spill as rapidly as possible; and
- Contain the spill as rapidly as possible.

The response personnel then begin to mitigate the spill.

6.3.4 Traffic and Crowd Control

During an spill, traffic control or crowd control may be required depending on site conditions. The response personnel are responsible for determining the most effective method(s) to:

- Safely control traffic flow around the spill area; and
- Provide crowd control measures to ensure public safety at all times.

The following City Departments may be contacted to assist with traffic and crowd control measures:

- Stockton Police Department (209) 937-7911
- Stockton Public Works Department (209) 937-8341

Procedures to address operations, traffic and crowd control are contained in the SERP and SOP for Traffic Control and Flagging Safety Program. Procedures and guidance follow the recommendations of the Manual on Uniform Traffic Control Devices (MUTCD).

6.3.5 Cleanup and Remediation

The response personnel are responsible for determining the most effective clean-up method and remediation procedures and determine when adequate remediation procedures have been completed.

6.3.6 Water Quality Monitoring Procedures

The SSOERP outlines the water quality monitoring procedures if an SSO is discharged to surface water. The impact of the spill on water quality is assessed by visual inspection for abnormal conditions such as effects on aquatic life, abnormal color, and odors. A Receiving Water Inspection/Sampling Log is used to record the findings of the inspection. Photographs are also used to document the extent of the spill, including the discharge location, and any adverse effects to receiving water or surrounding areas.

For discharges to surface water, public health warning signs are posted to protect the public from exposure to potentially contaminated water:

- Signs are posted in the affected area at appropriate intervals on both sides of the banks, if possible, of the receiving water body.
- Due to the occurrence of posted signs periodically being vandalized, stolen, wind-blown, or removed, City staff will maintain a log and map of sign placement and removal. The signs are checked on a regular basis by City staff and replaced or repositioned as necessary to make certain they are visible to the public throughout the entire spill event.

For spills greater than 1,000 gallons in volume and which enter a surface water, public health warning notifications are distributed door-to-door in known areas where residents utilize the surface water source for landscape irrigation purposes.

6.4 SSO Documentation and Reporting

All spills are thoroughly investigated and documented for use in managing the wastewater collection system and meeting established reporting requirements. The procedures for investigating and documenting spills are:

6.4.1 Internal SSO Reporting

Internal SSO reporting process is dependent on the category of spill as determined by the responding field crew.

6.4.1.1 Category 1 or 2

For Category 1 and 2 spills, the response personnel complete the SSO Response Forms and turn them into the Environmental Control Division. An Environmental Control Officer (ECO) reviews the response forms and verifies the information pertaining to the spill. The Regulatory Control Officer serves as the Legally Responsible Official (LRO) and is responsible for certifying and entering all required information into the State Water Resources Control Board (SWRCB) California Integrated Water Quality System (CIWQS) Online SSO Reporting System for category 1 and 2 spills.

6.4.1.2 Category 3 or 4

For Category 3 or 4 spills, the response personnel complete the SSO Response Forms and turn them into the Collections Supervisor. The Collections Supervisor reviews the response forms and verifies the information pertaining to the spill. The Collections Supervisor serves as a backup Legally Responsible Official (LRO) and is responsible for certifying and entering all required information into the State Water Resources Control Board (SWRCB) California Integrated Water Quality System (CIWQS) Online SSO Reporting System for category 3 or 4 spills.

6.4.2 External SSO Reporting

CIWQS is used for reporting spill information to the SWRCB. The City reports all spills in accordance with State Water Resources Control Board Order No. 2022-0103 DWQ, Monitoring and Reporting Program, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems.

6.5 SSO Notification

The City notifies the following internal personnel and outside agencies as appropriate:

Table 6-1 – SSO Notification Contacts

All Category 1 SSO's	
City of Stockton, Municipal Utilities Dept.: Technical Services Supervisor, Regulatory Compliance Officer, Deputy Director of Collections, and Director	(209) 937-8700
Delta Water Supply Project	(209) 639-3972 (Senior) (209) 937-5633 (Office) (209) 639-4241 (Operator) (209) 768-8879 (CPO)
City of Stockton, City Manager's Office: Public Information Officer, Assistant to City Manager and Deputy City Manager	(209) 937-8700
Cal OES (1,000 gallons or greater only)	(800) 852-7550
Alameda County Water District	(510) 656-3426 (M-F 8-4) Fax (510) 657-5944 (after hours) Fax
Alameda Co. Flood Control District, Zone 7	(925) 447-4517 Fax
Contra Costa Water District	(925) 688-8274 Fax
Santa Clara Valley Water District	(408) 395-5550 Fax
San Joaquin Co. Flood Channel Maint. Div.	(209) 468-8457 Fax
State Water Resources Control Board Online SSO Reporting System (CIWQS)	http://ciwqs.waterboards.ca.gov
All Category 2 SSO's	
City of Stockton, Municipal Utilities Dept.: Technical Services Supervisor, Regulatory Compliance Officer, Deputy Director of Collections, Assistant Director and Director	(209) 937-8700
City of Stockton, City Manager's Office: Public Information Officer Assistant to City Manager Deputy City Manager	(209) 937-8700
State Water Resources Control Board Online SSO Reporting System (CIWQS)	http://ciwqs.waterboards.ca.gov
All Category 3 or 4 SSO's	
State Water Resources Control Board Online SSO Reporting System (CIWQS)	http://ciwqs.waterboards.ca.gov
All SSO Discharges to San Joaquin County Stormwater Collection System	
San Joaquin County Public Works	(866) 755-4955
All SSO Discharges to Reclamation District 1614 Stormwater Collection System	
Reclamation District 1614	(209) 462-8061 / (209) 992-2827 Max Gallegos (209) 469-3133 Message

6.6 SSO Response Training

This section provides information on the training that is required to support the SERP.

6.6.1 City Personnel

Training in SSO procedures are conducted on an annual basis for all Collections and Environmental Control staff. Training records are maintained with the OSHA Compliance Specialist and as part of the employees' training record.

6.6.2 Non-City Personnel

The City requires contractors working on the collection system to be properly trained with SSO procedures and all contractors are made aware of the City's Spill Emergency Response Plan (SERP) documents and procedures. All contractors are given a copy of the SSOERP prior to the start of work.

6.7 Supporting Documents

- Appendix 4: City of Stockton Sanitary Sewer Overflow Emergency Response Plan (SSOERP)
- City of Stockton Sanitary Sewer Overflow Standard Operating Procedure (SOP)
- Appendix 9: Traffic Control and Flagging Safety Program
- MUTCD guidelines and procedures are available online

7 Chapter 7 – Sewer Pipe Blockage Control Program

This section of the SSMP presents the City’s Sewer Pipe Blockage control program to reduce the amount of fats, oils, and grease (FOG) discharged into the sanitary sewer system.

7.1 Regulatory Requirements

The Statewide General WDR for Wastewater Collection Agencies (Order No. 2022-0103) requires the development of a sewer pipe blockage control program to reduce the amount of FOG discharged to the sanitary sewer system. The requirement in the WDR section D.7 is as follows:

Sewer Pipe Blockage Control Program: Each Enrollee shall evaluate its service area to determine whether a sewer pipe blockage control program is needed. If an Enrollee determines that a sewer pipe blockage control program is not needed, the Enrollee must provide justification for why it is not needed. If FOG is found to be a problem, the Enrollee must prepare and implement a sewer pipe blockage control program to reduce the amount of these substances discharged to the sanitary sewer system. This plan shall include the following as appropriate:

- (a) An implementation plan and schedule for public education outreach program that promotes proper disposal of pipe-blocking substances.*
- (b) A plan and schedule for the disposal of pipe-blocking substances generated within the sanitary sewer system service area.*
- (c) The legal authority to prohibit discharges to the system and identify measures to prevent SSO and blockages caused by pipe-blocking substances.*
- (d) Requirements to install grease removal devices, design standards, maintenance requirements, BMP requirements, record keeping and reporting requirements.*
- (e) Authority to inspect grease producing facilities, enforcement authorities and whether the Enrollee has sufficient staff to inspect and enforce the FOG ordinance.*
- (f) An Identification of sanitary sewer sections subject to FOG blockages and establishment of a cleaning maintenance schedule for each section; and*
- (g) Development and implementation of source control measures for all sources of FOG discharged to the sanitary system for sections identified.*

7.2 Sewer Pipe Blockage Control Action Plan

The City has developed a comprehensive program to address sanitary sewer overflows associated with fats, oils, and grease (FOG). This Sewer Pipe Blockage

Control Action Plan (FCAP) outlines the elements of the City's Sewer Pipe Blockage Control Program. The program consists of inspections, enforcement procedures, public education and public outreach to all Food Service Establishments (FSEs) in the City's regional sewer service area. The Sewer Pipe Blockage Control Program is operated by the Pretreatment section of the Municipal Utilities Department. The program is implemented by the Technical Services Supervisor (FOG Program Manager) and consists of full-time Environmental Control Officers (FOG Inspectors). More than 700 FSEs are inspected annually under this program.

The FCAP is included as Appendix 10 of this SSMP document. All information about the City's Sewer Pipe Blockage program can be found on its website: www.stocktongov.com.

7.3 Public Outreach

MUD currently conducts public outreach by both providing information on the City's website and distributing best management practices (BMP) fact sheets during restaurant inspections.

Collection System Operators and Environmental Control (EC) Officers also distribute a Sewer Pipe Blockage Brochure to residences and businesses on an 'as needed basis'.

7.4 Sewer Pipe Blockage Disposal

The City of Stockton currently handles disposal of pipe-blocking substances at the Regional Wastewater Control Facility located at 2500 Navy Drive, Stockton, CA 95206.

7.5 Sewer Pipe Blockage Program Legal Authority

The City of Stockton has had an ordinance in place prohibiting the discharge of "substances which may cause obstruction to the flow in a sewer." The City of Stockton Municipal Code Title 13, Chapter 13.40, "Discharges of Fats, Oils and Grease from Food Service Establishments", contains all the provisions and legal authority pertaining to the prohibition to discharge of fats, oils and grease to the sanitary system. See Table 5-1 – Summary of Legal Authorities in this SSMP document. All Stockton Municipal Codes can be viewed and downloaded from the City's website: www.stocktongov.com.

7.6 Grease Removal Device Design Standards and Requirements

City of Stockton Municipal Code Title 13, Chapter 13.40 requires the installation of grease removal devices, provides minimum requirements for grease removal design standards, lists the required maintenance and record keeping associated with grease removal devices, and provides grease removal device BMPs. Reporting is conducted via on-site inspections conducted by MUD Environmental Control Officers.

7.7 Sewer Pipe Blockage Program Enforcement

The City of Stockton, Municipal Utilities Department currently employs multiple full-time Environmental Control Officers dedicated to the enforcement of the FOG Ordinance. Websoft is used to schedule and manage the city-wide pipe-blocking substance inspection activities. The authority to inspect and enforce the provisions of the FOG Ordinance are contained in Title 13, Chapter 13.40.140 – Facilities Monitoring and Right of Entry Requirements, and the enforcement actions are detailed in the City’s Sewer Pipe Blockage Enforcement Response Plan included in Appendix 11 of this SSMP document.

7.8 Sewer Pipe Blockage Related Preventative Maintenance

MUD has established a collection system cleaning schedule for all sewer lines of 15-inches in diameter and smaller. The cleaning frequency is based on historical pipe information. Please reference Chapter 6: Element IV - Operation and Maintenance Program, Section b of the SSMP for further details regarding preventative maintenance activities.

7.9 Source Control Measures

MUD’s existing source control program includes the requirement for grease interceptors for food service establishments, conducts FSE inspections, and engages in public outreach for both food service establishments and residences. MUD also conducts appropriate enforcement when the source of a sewer blockage is identified as being pipe-blocking substance related.

7.10 Supporting Documents

- Appendix 10: Sewer Pipe Blockage Control Action Plan
- Appendix 11: Sewer Pipe Blockage Enforcement Response Plan
- Restaurant BMP Brochures
- Restaurant BMP Posters
- FOG brochure distributed by EC Officer and Collections
- Title 13, Chapter 13.40 - Discharges of Fats, Oils and Grease from Food Service Establishments

8 Chapter 8 – System Evaluation, Capacity Assurance and Capital Improvements

This chapter of the SSMP documents the City’s system evaluation and capacity assurance provisions. The City has not incurred a capacity related SSO since the California Integrated Water Quality System (CIWQS) began tracking SSO data in 2007.

As required by the WDR section D.8, the City shall prepare and implement a capital improvement plan (CIP) that will provide hydraulic capacity of key sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event. The plan must include procedures and activities for:

- (a) Routine evaluation and assessment of system conditions;*
- (b) Capacity assessment and design Criteria;*
- (c) Prioritization of corrective actions; and*
- (d) A capital improvement plan.*

8.1 System Evaluation and Condition Assessment

The City has undertaken the following system evaluation actions and processes:

8.1.1 Wastewater Master Plan

The collection system evaluation is undertaken as a part of the 2035 Wastewater Master Plan (Master Plan) development and subsequent CIP decisions. The Master Plan incorporates any capacity related projects that takes into account increases in flow and necessary system capacity increases due to projected population increases. The City has not experienced the projected population increase that was used to develop the Master Plan. Master Plan is available on the City’s website: www.stocktongov.com.

8.1.2 Smart Covers

The City has also purchased and installed forty-one “Smart-Covers” which allow for real-time monitoring of flow conditions at specific maintenance holes (manholes). Use of the “Smart-Covers” has prevented several SSO from occurring. These units can be re-located as needed to monitor suspected problem areas. In response to potential climate change driven condition changes, the City is aware of potential water table level and flooding concerns and in 2025 has strategically placed I&I monitoring capability within the “Smart-Cover” network.

8.1.3 CCTV Camera Inspection Program

The City's preventative maintenance program includes routing CCTV camera inspections by both City staff and contractors. The annual inspection goal is 20 percent of total line mileage, with the intent of 100 percent of total line mileage within 5 years.

The City of Stockton operates wastewater collections systems adjacent to and through the Central Valley's Delta region waterways. All collections systems are maintained, inspected and operated with concern for environmental consequences and discharges into a water of the State. Records and documentation of inspections are retained in accordance with PACP standards and used to evaluate areas requiring corrective action or more frequent inspections.

8.2 Capacity Assessment and Design Criteria

City of Stockton has Design and Construction Standard Specifications and Standard Drawings adopted by the City (latest revision November, 2003) as a guide for standardization of Public Works projects within the City. Section 71 of the Standard Specifications and Standard Drawings pertain to the design and construction of sanitary sewers. These Standard Specifications and Standard Drawings are available on the City website: www.stocktongov.com.

The City's preventative maintenance program records conditions found and/or corrected into the CMMS processes. Data derived from the CMMS, CCTV inspection program, existing system condition assessments, SSO history, and annual cross-divisional meetings with the Engineering division inform decisions and evaluations regarding components or capacity limitations with regard to various conditions observed such as;

- Dry-weather peak flow conditions that cause or contribute to spill events;
- Storm(s) or wet weather events that cause or contribute to spill events;
- The capacity of key system components; and
- Identify the major sources that contribute to the peak flows associated with sewer spills.
- Capacity of flood-prone systems subject to increased infiltration and inflow, under normal local and regional storm conditions;
- Capacity of systems subject to increased infiltration and inflow due to larger and/or higher-intensity storm events as a result of climate change;
- Capacity of major system elements to accommodate dry weather peak flow conditions, and updated design storm and wet weather events; and

8.3 Prioritization of Corrective Action

Data and historical observations from the capacity assessment data sources inform the City's preventative maintenance and corrective action program to determine system components with failure potential for severe SSO consequences.

8.4 Capital Improvement Plan

The City's current CIP proposal is outlined in a spreadsheet available from the Engineering Division of the Municipal Utilities Department. The CIP proposals for wastewater includes projects related to the collection system, pump stations and system upgrades, improvements and additions.

The list of the City's active, approved wastewater collections CIP projects can be found in the City's Five Year Capital Improvement Plan Utility section for Sanitary Sewer and Wastewater. The City's CIP projects are developed and reviewed annually, and executed through a joint coordination between Engineering, Maintenance and Operations staff in conjunction with consultants and contractors.

The CIP projects adopted were/are based in part on recommendations in the City of Stockton's 2022 Wastewater Master Plan. The 2022 Wastewater Master Plan was developed taking into account present population size, current infrastructure and treatment plant capacity; and looking at projected growth in the next 25 years (2035 build-out). Existing systems were evaluated against design and performance criteria, using hydraulic modeling to predict where infrastructure improvements, upgrades or additions would be required. Capital costs were estimated and a phased program for capital projects scheduling proposed.

Additionally, some minor, short term, CIP is scheduled and completed on an as-needed basis. The short term CIP projects are typically unexpected emergency related projects.

8.5 CIP Schedule

The CIP schedule is subject to appropriation and reprioritization of internal and external funds authorized by the City Council and reviewed annually during budget preparations. Progress of each CIP, once started, is tracked by the Engineering Division in the CIP Budget spreadsheet.

Short term CIP work is added into the Cityworks Computerized Maintenance Management System after completion of the work.

8.6 Supporting Documents

- 2035 Wastewater Master Plan
- City of Stockton Standard Specifications and Standard
- CIP Budget (Engineering Division CIP spreadsheet)

9 Chapter 9 – Monitoring, Measurement and Program Modifications

This chapter of the SSMP presents the City’s approach to Monitoring, Measurement, and Program Modifications.

The WDR section D.9 requirements for the Monitoring, Measurement, and Program Modifications of the SSMP are that the City shall:

- (a) Maintain relevant information that can be used to establish and prioritize appropriate SSMP activities;*
- (b) Monitor the implementation and, where appropriate, measure the effectiveness of each element of the SSMP.*
- (c) Assess the success of the preventative operation and maintenance program.*
- (d) Update program elements, as appropriate, based on monitoring or performance evaluations.*
- (e) Identify and illustrate SSO trends, including: frequency, location, and volume*

9.1 Performance Measures

Cityworks serves as the CMMS used by the City to generate work orders, track in progress and completed work on cleaning, repair, CCTV inspection, customer service requests and SSOs information. This collection system information is tied to the collection system asset or residence and is used to determine changes to the sewer main cleaning frequency. The City uses the information to monitor and measure the performance of the SSMP and SSMP implementation.

The City monitors sewer overflow performance to accomplish the following:

- Establish and prioritize appropriate SSMP activities
- Monitor the implementation and effectiveness of the SSMP
- Assess the success of the preventative maintenance program
- Identify and illustrate SSO trends including frequency, volume, and location

In addition to the usage of California Integrated Water Quality System (CIWQS) to obtain SSO data, the City has the capability to transfer data from the Cityworks CMMS to a GIS format whereby spills can be graphically illustrated as an overlay on digital maps. The information can be coded by color, shape or symbol and size to illustrate the desired SSO data. A sample of this can be seen in Appendix 12.

9.2 Performance Monitoring and Program Changes

Monthly status reports and figures are generated from Cityworks CMMS data to provide monitoring of collection system activities. Activities such as cleaning, CCTV inspection, repairs, SSOs, and FOG inspection information are included in the report.

The City will evaluate the performance of its wastewater collection system at least annually using the performance measures identified in Table 9-1. The City will update the data and analysis of performance measures at the time of the evaluation. The City may use other performance measures in its evaluation.

Table 9-1: Performance Metrics

Type	Performance Measure	Source
System Statistics	Total Miles of Gravity Sewer	GIS
	Total Miles of Force Main	GIS
	Total Number of Pump Stations	GIS
SSO Measures	SSO Category	CIWQS
	SSO Date	CIWQS
	SSO Cause	CIWQS
	SSO Line Type	CIWQS
	Number of SSOs per 100 miles of sewer per year	CIWQS
	SSO Location	CIWQS
	SSO Volume	CIWQS
	SSOs that reach surface water	CIWQS
Maintenance Program	Count of Lateral Repairs	CMMS
	Linear Feet of Lateral Repairs	CMMS
	Count of Main Repairs	CMMS
	Linear Feet of Main Repairs	CMMS
	Count of Manholes Repaired	CMMS
	Count of Taps Repaired	CMMS
	Count of Mains Hydro-flushed	CMMS
	Linear Feet of Mains Hydro-flushed	CMMS
	Count of Mains Rodded	CMMS
	Linear Feet of Mains Rodded	CMMS
	Laterals Foamed	CMMS
	Linear Feet of Laterals Foamed	CMMS
	Count of Service Calls	CMMS
	Count of Mains Inspected	POSM
	Linear Feet of Mains Inspected	POSM
	Count of Laterals Inspected	CMMS
	Linear Feet of Laterals Inspected	CMMS
	Count of Pump Station Mechanical Work Orders	CMMS
	Count of Pump Station Electrical Work Orders	CMMS
FOG Program	Count of Initial FSE Inspections	SwiftComply
	Count of Enforcement Actions	SwiftComply
	Count of Follow-Up Inspections	SwiftComply

9.3 SSMP Updates

All program elements are reviewed during an annual meeting with collection system Supervisors and engineering staff to determine if any updates to the SSMP are warranted. During the meeting, the annual report is used to evaluate the collection system activities to identify areas of process improvement. Any changes to the SSMP are documented in the Updates Log and implemented. SSMP updates are submitted to the State database when recertification is required. The SSMP Update Log is provided in Table 9-2 below.

Table 9-2: SSMP Update Log

Element	Date
Entire SSMP	November 2007
Entire SSMP	February 2011
VI – Overflow Emergency Response Plan	September 2013
I – Goals	October 2013
II – Organization	October 2013
VII – Fats, Oils, and Grease (FOG) Program	October 2013
III – Legal Authority	December 2013
IX – Monitoring and Program Modifications	December 2013
X – SSMP Program Audits	December 2013
Entire SSMP	January 2016
IV - Organization	November 2023
Entire SSMP Update	July 2025

9.4 Supporting Documents

- Appendix 6: Cityworks work order
- Appendix 12: GIS SSO Display Sample
- City of Stockton Sewer System Management Plan
- Monthly Collection System Status Report
- SSMP Update Log

10 Chapter 10 – Internal Audits

This chapter of the SSMP presents the process the City will follow to audit its SSMP and related programs.

The Enrollee shall submit its Sewer System Management Plan Audit and other pertinent audit information, in accordance with section 5.4 (Sewer System Management Plan Audits) of this General Order, to the online CIWQS Sanitary Sewer System Database by six (6) months after the end of the 3-year audit period. The Enrollee shall submit its Sewer System Management Plan Audit and other pertinent audit information, in accordance with section 5.4 (Sewer System Management Plan Audits) of this General Order, to the online CIWQS Sanitary Sewer System Database by six (6) months after the end of the 3-year audit period.

10.1 SSMP Audits

The City of Stockton's assigned auditor, or the contracted 3rd party auditor, shall select the format of the audit forms they deem appropriate as desired to assist in completing the SSMP audit. At a minimum, the City will conduct an SSMP audit on a triannual basis and all audit reports will be maintained on file.

Table 10-1: SSMP Audit Log

Audit Date	Auditor	Comments
October 2013	MUD Staff	Complete, Audit on File
November 2015	HDR Engineering	Complete, Audit on File
November 2017	MUD Staff	Complete, Audit on File
November 2019	MUD Staff	Complete, Audit on File
November 2023	EEC Environmental	Complete, Audit on File

10.2 Supporting Documents

- SSMP Audit Log

11 Chapter 11 – Communication Program

This section of the SSMP is intended to outline the process involved in communicating with interested members of the public and satellite agencies regarding the development, implementation, and performance of this plan.

11.1 Regulatory Requirements

The WDR section D.11 states that:

The Enrollee shall communicate with:

- *The public for spills and discharges resulting in closures of public areas, or that enter a source of drinking water, and; The development, implementation, and update of this Plan including opportunities for public input to Plan implementation and updates.*
- *Owners/operators of systems that connect into the Enrollee's system, including satellite systems for system operation, maintenance, and capital improvement related activities.*

11.2 Communication with Public

The City has multiple outlets to keep the public informed about its activities and plans.

11.2.1 Website Announcements

The City maintains a website (www.stocktongov.com) to inform the public about City activities. The City's website is an effective communication channel for providing alerts and news to the public. The main page of the website provides important announcements, with links to agendas and minutes for City Council meetings, and other key information for City residents. Various documents are published on the City's Municipal Utilities Department website:

11.2.2 Reports

Municipal Utilities Department (MUD) produces a monthly report and annual report and puts a PDF copy on the City website. This document highlights operational and maintenance activities including a summary of SSOs, and capital improvement project progress.

11.2.3 Sewer System Master Plan

The City's website also includes links to the Sewer System Management Plan and the 2035 Wastewater Master Plan.

11.2.4 Public Input

The public also has the opportunity to comment and ask questions through the “Ask Stockton” button on the City’s homepage: www.stocktongov.com.

11.3 Satellite Agencies

The City Regulatory Compliance Officer and/or Senior Supervisor is in contact with representatives of each satellite agency when announcement or notifications are issued. Meetings with satellite agencies are held on an as-needed basis. The City has five (5) satellite systems that connect to City’s sewers:

1. Country Club Sanitary Maintenance District
4330 N. Pershing Ave, Suite B-1
Ms. Ginger Root, Clerk of the Board
(209) 956-3516 e-mail: ginger.root@att.net
2. San Joaquin County Utility Maintenance Division
(various Maintenance Districts, including Lincoln Village,
Colonial Heights, County Hospital)
San Joaquin County, Public Works Department
Sanitary Sewer System Operation and Maintenance
Ben Guzman, Water Superintendent
(209) 468-3090 e-mail: b.guzman@sjgov.org
3. Port of Stockton
West Complex, Rough and Ready Island
2201 W. Washington St
Rita Koehnen
(209) 946-0246 ext 291 e-mail: rkoehnen@stocktonport.com
4. Northern California Youth Correctional Center
7650 South Newcastle Rd
CLOSED
5. California Health Care Facility
7707 Austin Rd
Philip Albee, Correctional Plant Manager II
(209) 831-0726 e-mail: phil.albee@cbcr.ca.gov