City of Salinas

Sewer System Management Plan
Industrial Wastewater System

Revision 2 – May 2025

WDID: 3SSO11522

Prepared By:

WALLACE GROUP®

City of Salinas

SEWER SYSTEM MANAGEMENT PLAN

Industrial Wastewater System

Revision 2

WDID: 3SSO11522

May 2025

The Sewer System Management Plan, Revision 2 was created with the assistance of the following City of Salinas and Wallace Group Staff:

City of Salinas Staff

Gary Gabriel, Wastewater Manager

Ray Lerma, Wastewater Supervisor

Wallace Group Staff

Bill Callahan, Senior Environmental Compliance Specialist

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Gary Gabriel

Gary Gabriel
Wastewater Manager / LRO

SSMP – REVISION RECORD

City of Salinas Industrial System SSMP has undergone the following revisions:

Revision No.	Revision Date	Description of Revisions	Revision Completed By	Revision Approved By
0	2016	The City developed an initial Sewer System Management Plan (SSMP) to address the requirements of the 2006 Sanitary Sewer System (SSS) Orders issued by the State Water Resources Control Board (SWRCB).	1st SSMP City Staff	City Wastewater Division Manager and City Council
1	November 2022	The SSMP was updated based on the findings of the 2022 SSMP Audit.	City Staff and Wallace Group	City Wastewater Division Manager and City Council
2	May 2025	The SSMP was updated based on the findings of the 2024 SSMP Audit and for compliance with the 2022 WDRs	City Staff and Wallace Group	City Wastewater Division Manager and City Council

TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS

Appendices

ACRONYMS AND ABBREVIATIONS

BMP	Best Management Practices
CAP	Capacity Assessment Plan
Cal OES	California Office of Emergency Services
Cal/OSHA	California Division of Occupational Health and Safety
CCR	California Code of Regulations
CCTV	Closed Circuit Television
CDFW	California Department of Fish and Wildlife
CFR	Code of Federal Regulations
CIP	Capital Improvement Plan
CITY	City of Salinas
CIWQS	California Integrated Water Quality System
CPO	Chief Plant Operator
CWEA	California Water Environment Association
EHS	Environmental Health Services
ELAP	Environmental Laboratory Accreditation Program
ENROLLEE	City of Salinas
EPA	Environmental Protection Agency
FOG	Fats, Oils, and Grease
FSE	Food Services Establishment
HMA	High Maintenance Area
I/I	Inflow & Infiltration
IIPP	Injury and Illness Prevention Program
IWF	Industrial Waste Facility
LRO	Legally Responsible Official
mgd	Million Gallons per Day
MRP	Monitoring and Reporting Program (used in this SSMP to reference MRP in the Order WQ 2022-0103-DWQ)
SERP	Spill Emergency Response Plan
OES	Office of Emergency Services
O&M	Operation and Maintenance
OSHA	Occupational Safety and Health Administration

ACRONYMS AND ABBREVIATIONS

PLSD	Private Lateral Sewage Discharge
PM	Preventative Maintenance
PPE	Personal Protective Equipment
R&R	Rehabilitation and Replacement
RWQCB	Central Coast Regional Water Quality Control Board
SCADA	Supervisory Control and Data Acquisition
SECACIP	Sewer Evaluation, Capacity Assurance and Capital Improvements
SMP	Sewer Master Plan
SOP	Standard Operating Procedure
SSMP	Sewer System Management Plan
SPILL	Sanitary Sewer Spill
SSS	Sanitary Sewer System
SWRCB	State Water Resources Control Board
WDR	Waste Discharge Requirements (used in this SSMP to reference MRP in the Order WQ 2022-0103-DWQ)

INTRODUCTION

This Sewer System Management Plan (SSMP) six (6) year update was performed in compliance with the requirements of the State Water Resources Control Board (SWRCB) Statewide General Waste Discharge Requirements (WDR), Order No. 2022-0103-DWQ, which are available at the City Wastewater Division Office and on the State Water Resources Control Board website: **https://www.waterboards.ca.gov/water_issues/programs/sso/** .

0.1 Requirement Background

The WDRs require all public wastewater collection system agencies in California that own and operate sanitary sewer systems greater than one mile in length, which collect or convey untreated or partially treated wastewater to a publicly owned treatment facility, to develop, implement, and maintain a SSMP and report sanitary sewer spills (Spills) using the State's electronic reporting system, California Integrated Water Quality System (CIWQS).

The City of Salinas (City) SSMP includes the following eleven (11) Elements:

1. Goal
2. Organization
3. Legal Authority
4. Operation and Maintenance Program
5. Design and Performance Provisions
6. Spill Emergency Response Plan
7. Pipe Blockage Control Program
8. System Evaluation, Capacity Assurance and Capital Improvement Plan
9. Monitoring, Measurement, and Program Modifications
10. Sewer System Management Plan Program Audits
11. Communication Program

Each SSMP Element is prefaced with the associated WDR section and narrated with the City's policies and procedures, which address the respective SWRCB requirement.

EXECUTIVE SUMMARY

The State Water Resources Control Board's (SWRCB's) Statewide General Waste Discharge Requirements (WDR) for Sanitary Sewer Systems, Order No. 2022-0103-DWQ require the City of Salinas (City) to have and maintain a Sewer System Management Plan (SSMP), which provides a plan and schedule to properly manage, operate, and maintain all parts of the sanitary sewer system in order to help reduce and prevent sanitary sewer spills (Spills), as well as mitigate any Spills that do occur.

The SSMP includes the following eleven (11) Elements:

Goal

City Industrial System goals, which are included in the SSMP, are:

- Properly manage, operate, and maintain the wastewater collection system;
- Maintain design construction standards and specifications for the installation of new wastewater systems;
- Verify the wastewater collection system has adequate capacity to convey industrial wastewater during peak flows;
- Minimize the frequency of system overflows;
- Respond to system overflows quickly and mitigate the impact of the overflow;
- Provide training on a regular basis for staff in collection maintenance and operations;
- Develop a closed-circuit televising (CCTV) program for the industrial sewer collection system;
- Identify and prioritize structural deficiencies and implement short-term and long-term maintenance and rehabilitation actions to address each deficiency;
- Meet all applicable regulatory notification and reporting requirements; and
- Provide excellent customer service.

Organization

The Organization Element of the SSMP identifies City and Contract Staff, who are responsible for implementing the SSMP, responding to SSOs, and meeting sewer spill reporting requirements, and identifies the lines of authority of SSMP responsibilities and chains of communication for sewer spill response and reporting. The Legally Responsible Officials (LRO) are also designated in this SSMP Element in order to meet the SWRCB requirements for completing and certifying sewer spill reports in the SWRCB's online regulatory information database and tracking system, California Integrated Water Quality System (CIWQS).

Legal Authority

This SSMP Element outlines the City Municipal Code Chapters & Ordinances that provide the City with the legal authority to:

a. Prevent illicit discharges into its sanitary sewer system from inflow and infiltration (I&I); unauthorized stormwater; chemical dumping; unauthorized debris; roots; fats, oils, and grease; and trash, including rags and other debris that may cause blockages;

b. Collaborate with storm sewer agencies to coordinate emergency spill responses, ensure access to storm sewer systems during spill events, and prevent unintentional cross connections of sanitary sewer infrastructure to storm sewer infrastructure;

c. Require that sewer system components and connections be properly designed and constructed;

d. Ensure access for maintenance, inspection, and/or repairs for portions of the service lateral owned and/or operated by the Enrollee;

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.

Operation and Maintenance Program

City operation and maintenance of its collection system ensures that the system is kept in good working condition, and this SSMP Element outlines the work that is conducted to accomplish the optimal operation and maintenance of the City industrial collection system. This SSMP Element details a:

a. Up-to-date maps of the sanitary sewer system, and procedures for maintaining and providing State and Regional Water Board staff access to the maps. The maps must show gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable stormwater conveyance facilities within the sewer system service area boundaries.;

b. A scheduling system and a data collection system for preventive operation and maintenance activities conducted by staff and contractors.

    a. The scheduling system must include:
        i. Inspection and maintenance activities;
        ii. Higher-frequency inspections and maintenance of known problem areas, including areas with tree root problems;
        iii. Regular visual and closed-circuit television (CCTV) inspections of manholes and sewer pipes.

The data collection system must document data from system inspection and maintenance activities, including system areas/components prone to root-intrusion potentially resulting in system backup and/or failure.

c. In-house and external training provided on a regular basis for sanitary sewer system operations and maintenance staff and contractors. The training must cover:

    i. The requirements of this General Order;
    ii. The Enrollee's Spill Emergency Response Plan procedures and practice drills;
    iii. Skilled estimation of spill volume for field operators; and
    iv. Electronic CIWQS reporting procedures for staff submitting data.

d. An inventory of sewer system equipment, including the identification of critical replacement and spare parts.

Design and Performance Provisions

The Design and Performance Provisions Element describes the standards and specifications for new construction, repair of the existing sanitary sewer system, and the inspection and testing of these items.

Spill Emergency Response Plan

The Spill Emergency Response Plan (SERP) contains the following information in order to protect public health and the environment in the event of a sewer spill:

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.

Pipe Blockage Control Program

The goal of the Pipe Blockage Control Program is to reduce the amount of Pipe Blocking Materials such as Fats, Oils and Grease Wipes, Roots, etc… discharged to the sanitary sewer system. The City has determined that these items do not pose a problem within the Industrial Sewer Collection and Conveyance System and therefore is not required to meet additional regulatory requirements identified for this Element.

System Evaluation, Capacity Assurance, and Capital Improvement Plan

The City has conducted several studies of the Industrial System between 2001, 2008, and 2022 to assess the existing, near term and long-term capacity needs to safely convey wastewater to the Industrial Wastewater Treatment Plant. These analyses indicate that there is adequate capacity under existing conditions for the collection and conveyance system. In the near term. When discharges reach 2 mgd some improvements may be required , however additional analyses will be required to confirm capacity needs. Capacity needs for the long term will depend on the number and size of facilities connected in the future. The City has identified one area for capacity upgrades within the Industrial System. The Airport Boulevard Lift Station is planned to be upgraded in 2026 to address capacity deficiencies to meet existing and future flow additions upstream. An additional Vulnerability Assessment will be required to meet some of the additional (2022) requirements included in the WDRs.

Monitoring, Measurement, and Program Modifications

The City monitors the implementation of the SSMP Elements in order to measure the effectiveness of the City SSMP program in reducing sewer spills. This SSMP Element outlines the manner in which each SSMP Element is monitored and evaluated and the schedule with which the City completes this monitoring and evaluation.

Sewer System Management Plan Program Audits

The SSMP Program Audits Element outlines the audit process and identifies City Staff responsible for conducting or participating in SSMP Program Audits and generating the required SSMP Program Audit Report. SSMP Program Audits must occur at a minimum of every three (3) years and are required to evaluate the City SSMP Program, identify program deficiencies, and provide an improvement schedule based on the audit findings.

Communication Program

This SSMP Element describes the manner in which the City communicates the development, implementation, and performance of its SSMP with the public in order to provide them with the opportunity to provide input as the SSMP program is developed and implemented.

ELEMENT 1 - GOAL, REGULATORY CONTEXT, ASSET OVERVIEW AND SCHEDULE

The City of Salinas (City) has the following goals for the management and maintenance of the industrial sanitary sewer collection system. These goals provide focus for City Staff to continue high-quality work to operate and maintain City facilities and to implement improvements for management of the collection system to prevent sanitary sewer spills (Spills). The role of the SSMP in supporting these goals is discussed below.

These goals will be evaluated annually in Element 9: Monitoring, Measurement and Program Modification to assess the City's success in implementing and meeting the objectives of these goals.

1.1 Regulatory Requirement

WDR Order No. 2022-0103-DWQ Attachment D1 states:

> The goal of the Sewer System Management Plan (Plan) is to provide a plan and schedule to: (1) properly manage, operate, and maintain all parts of the Enrollee's sanitary sewer system(s), (2) reduce and prevent spills, and (3) contain and mitigate spills that do occur.

1.2 Sanitary Sewer System Goals

The City seeks to provide high quality and reliable wastewater collection and conveyance for its residents and businesses.

City SSMP Goals:

- Properly manage, operate, and maintain the wastewater collection system;
- Maintain design construction standards and specifications for the installation of new wastewater systems;
- Verify the wastewater collection system has adequate capacity to convey industrial wastewater during peak flows;
- Minimize the frequency of system overflows;
- Respond to system overflows quickly and mitigate the impact of the overflow;
- Provide training on a regular basis for staff in collection maintenance and operations;
- Develop a closed-circuit televising (CCTV) program for the industrial sewer collection system;
- Identify and prioritize structural deficiencies and implement short-term and long-term maintenance and rehabilitation actions to address each deficiency;
- Meet all applicable regulatory notification and reporting requirements; and
- Provide excellent customer service.

1.3 Regulatory Context and Schedule for Audits and Updates

As required by Statewide Sanitary Sewer Systems General Order 2022-0103-DWQ, the SSMP contains several elements which are referenced in the table of contents that will help the City accomplish the goals mentioned in this element. The City is dedicated to implementing each Element of the SSMP and tracking any revisions that may be necessary as program implementation progresses. The current 2025 SSMP update was completed prior to the due date of *May 2, 2025*.

The City will begin their next SSMP Audit after *May 2, 2027*, Audit Period End Date with an identified Audit period of *May 2, 2024, through May 2, 2027*, for completion by *November 2, 2027*. The Audit will evaluate how the SSMP meets regulatory requirements, implementation of the SSMP, success of preventative maintenance program, and sewer spill trends. A plan and schedule will be developed for the correction of any deficiencies identified in the audit and any necessary updates or general plan changes that may be required.

The City will annually review and evaluate the SSMP, Preventative Maintenance Program, and Spill Trends to identify areas of their sewer operations that may need to be modified to comply with existing regulatory requirements and reduce the number of sewer spills occurring in a calendar year.

The SSMP 6-Year Update will begin on or before *January 2031* for completion, adoption and recertification by *May 2, 2031*.

In addition to the SSMP Update and SSMP Audit discussed above, the City has identified additional near-term compliance dates as required by General Order WQ-2022-0103-DWQ:

- Annual Report of Category 4 Non-Lateral Spills: *February 1st of each calendar year*
- Annual Report: *April 1st of each calendar year*
- Electronic Sanitary Sewer System Service Area Boundary Map: *December 31, 2025*

1.4 System Asset Overview and Service Area

The City of Salinas is incorporated as a charter City on March 4, 1874, and operates under the Council-Manager form of government. The City is governed by a six-member Council elected by districts for four-year alternating terms and a Mayor elected at large for a two-year term. The Council appoints the City Attorney and the City Manager who is responsible for day-to-day administration of the City under the policy direction of the Council.

The City of Salinas operates a unique Industrial Wastewater Sewer Collection, Conveyance & Treatment System. While most municipalities maintain a Storm Sewer and a Sanitary Sewer System only, Salinas maintains a third collection system for a service area on the southern end of the City. The Industrial Wastewater Sewer receives industrial wastewater discharges from 23 industrial users via permitted connections; and conveys the discharge to a 200-acre treatment facility located along the Salinas River. The treatment facility and collection system are solely funded by user fees from the current roster of 23 industrial users. The industrial waste fund is adequate for the immediate operations and maintenance of the treatment facility and collection system.

The City industrial wastewater collection system consists of approximately 0.5 miles of force

mains, 7.25 miles of gravity sewer lines, 0.42 miles of force main, 93 manholes, and 1 lift station.

The following table shows the various pipeline sizes:

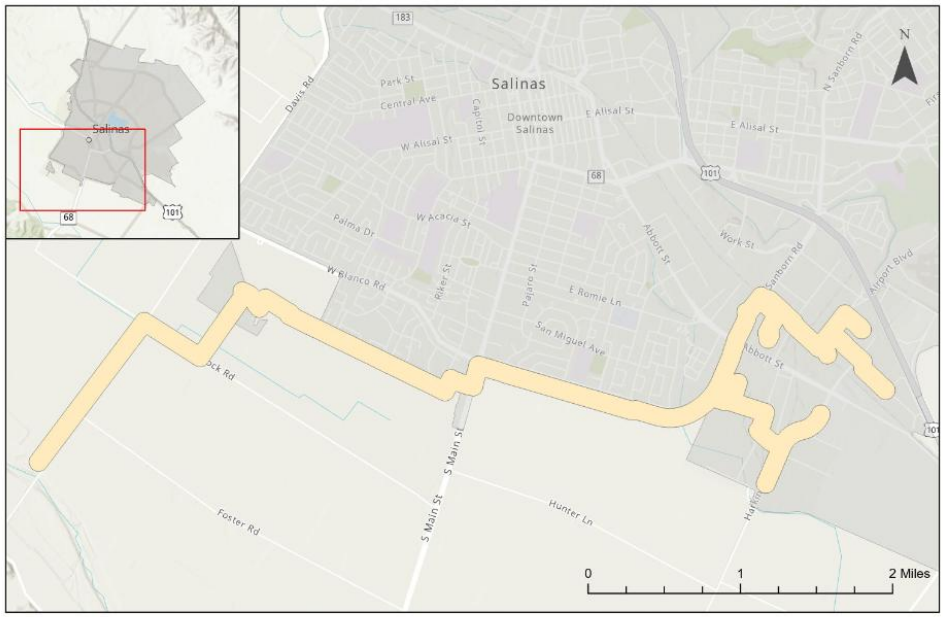
Pipe Diameter (Inches)	Length (Miles)	Percent of Sewer System
12”	0.17	2
15”	0.8	11
18”	.51	7
27”	1.17	16
33”	2.37	33
36”	.42	6
42”	1.82	25
TOTAL	**7.25**	**100**

There is 0.42 miles of 14” sewer force main within the industrial sewer collection and conveyance system.

The City Industrial Wastewater System serves twenty-four (24) individual industrial facilities. Sewer system customers are broken down as follows:

Type of Connection	% of Total Connections
Residential	0
Commercial	0
Industrial	100

A general overview showing the service area boundaries and sewer system assets are provided below.



City of Salinas
Industrial Waste Water System Boundary Map

IW Collection System Boundary
City Boundary

City of Salinas
Industrial Waste Water System Overview Map

IW Gravity Main
IW Pressure Mains
IW Manholes
IW Lift Station
IW Pump Station
IW Vacuum Relief Valve

The IW sewer system allows fifteen (15) facilities of the twenty-three (23) that operate year-round to divert stormwater into the sewer system from outdoor areas of industrial activity. The City has two existing stormwater diversion structures (Phase 1A, constructed in 2020) within the IW sewer system. The City plans to make additional improvements (Phase 2A) in the future to facilitate additional stormwater diversion from the southeast section of Salinas into the industrial sewer system. A schematic of Phase 1A and Phase 2A stormwater projects is shown below:

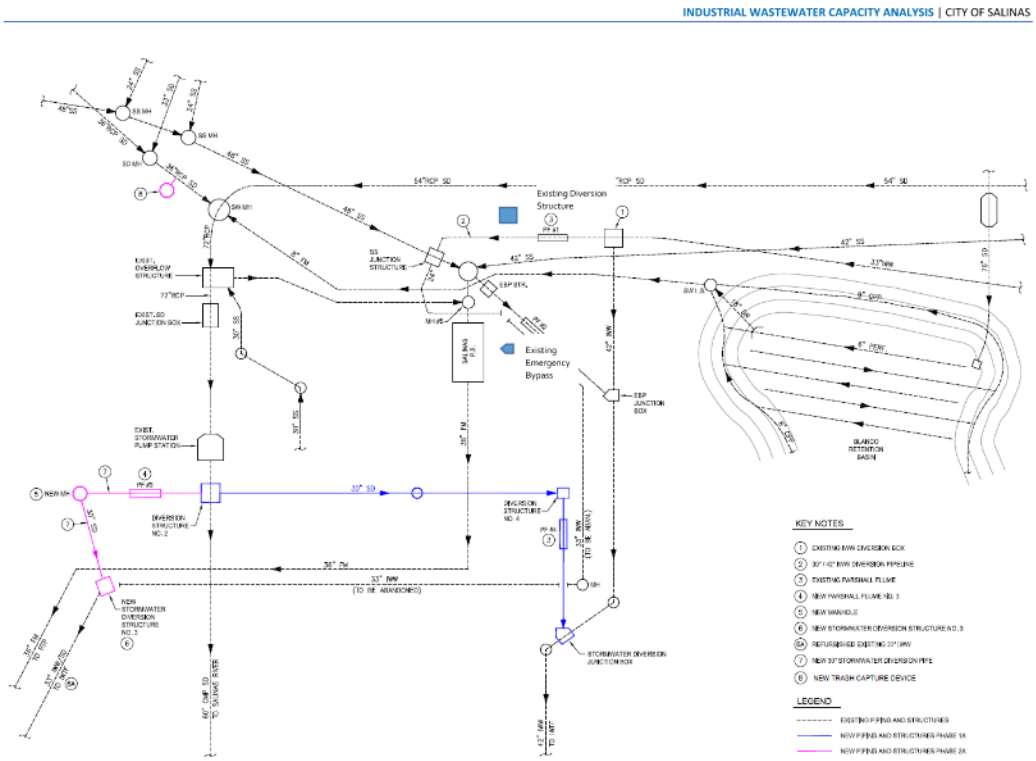


Figure 1.2 TP-1 Piping (Source: Salinas Storm Water Grant, Salinas Treatment Facility, Storage, and Recovery Project-Phase 1B)

The improvements to integrate additional (Phase 2A) stormwater into the industrial sewer system is a long-term goal. The date to move forward with this project was not determined at the time this 2025 revision of the SSMP was developed.

Data management for the operations and maintenance of the sewer systems is provided utilizing the City Computerized Maintenance Program utilizing ArcGIS field mapping applications. The web-based application includes map updates, data storage and produces tasks for sewer inspections and maintenance.

Sewer laterals are owned, operated and maintained by individual property owners from the wye connection at the sewer main, back to each building. The City does not own or maintain any sewer laterals within the service area.

ELEMENT 2 - ORGANIZATION

The Organization Element of the SSMP identifies City of Salinas (City) staff that are responsible for the management and implementation of this SSMP. This Element identifies staff's responsibilities responding to sewer spill events, and meeting sewer spill reporting requirements. The Legally Responsible Officials (LRO) are designated below to meet SWRCB requirements for completing and certifying sewer spill reports in the California Integrated Water Quality System (CIWQS).

This SSMP Element outlines the City organization, SSMP responsibilities of personnel, authorized representatives, and chains of communication for sewer spill response and reporting.

2.1 Regulatory Requirements

WDR Order No. 2022-0103-DWQ Attachment D 2 states:

The collection system agency's SSMP must identify:

a) The name of the Legally Responsible Official defined in this 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) Chain of communication for reporting spills from receipt of complaint or other information, including the person responsible for reporting spills to the State and Regional Water Boards and other agencies, as applicable. (For example, county health officer, county environmental health agency, and State Office of Emergency Services.)

WDR Order No. 2022-0103-DWQ Section 5.1 states:

> The Enrollee shall designate a Legally Responsible Official that has authority to ensure the enrolled sanitary sewer system(s) complies with this Order and is authorized to serve as a duly authorized representative. The Legally Responsible Official must have responsibility over management of the Enrollee's entire sanitary sewer system and must be authorized to make managerial decisions that govern the operation of the sanitary sewer system, including having the explicit or implicit duty of making major capital improvement recommendations to ensure long-term environmental compliance. The Legally Responsible Official must have or have direct authority over individuals that:
>
> - Possess a recognized degree or certificate related to operations and maintenance of sanitary sewer systems, and/or
>
> - Have professional training and experience related to the management of sanitary sewer systems, demonstrated through extensive knowledge, training and experience.

2.2 Responsible and Authorized Representatives

The name of the authorized representatives described in WDR Section 5.1 above is listed in Table 2-1:

Table 2-1: City of Salinas IW System Authorized Representatives

Name	Title	CIWQS SSO Database
Gary Gabriel	Wastewater Manager	Legally Responsible Official
Ray Lerma	Wastewater Crew Supervisor	Legally Responsible Official

2.3 SSMP Program Implementation

An organization table showing the lines of authority for the City is described below in Table 2-2 and updated City Organization Charts which show lines of authority can be found in **Appendix 2A & 2B**.

Table 2-2: City of Salinas Staff and Contract Staff with SSMP Responsibilities and Contact Information

Name and Title	SSMP Responsibilities	Contact Information
City Council Dennis Donohue *Mayor* Jose Luis Barajas *Councilmember* Tony Barrera *Councilmember* Margaret D'Arrigo *Councilmember* Gloria De La Rosa *Councilmember* Andrew Sandoval *Councilmember* Aurelio Salazar *Councilmember*	The City Council annually adopts a budget in which funding would be allocated for SSMP related tasks. The City is also responsible for considering and approving updates to City SSMPs.	mayor@ci.salinas.ca.us (831) 758-7201 District1@ci.salinas.ca.us (831) 758-7201 District2@ci.salinas.ca.us (831) 758-7201 District3@ci.salinas.ca.us (831) 758-7201 District4@ci.salinas.ca.us (831) 758-7201 District5@ci.salinas.ca.us (831) 758-7201 District6@ci.salinas.ca.us (831) 758-7201
Rene Mendez City Manager	The City Manager directs City Staff who manage all eleven (11) SSMP Elements.	Office: (831) 758-7465 renem@ci.salinas.ca.us
Christopher A. Callihan City Attorney	The City's Attorney assists in the management of Element 3, Legal Authority.	Office: (831) 758-7418 chrisc@ci.salinas.ca.us
Gary Gabriel	The Wastewater Manager is responsible for the overall	Gary Gabriel: (831) 758-7103

Name and Title	SSMP Responsibilities	Contact Information
Wastewater Manager	management of the SSMP and specifically directs the implementation of: • Element 1 – Goal; • Element 2 – Organization; • Element 3 – Legal Authority; • Element 4 - Operation and Maintenance Program; • Element 5 – Design and Performance Provisions; • Element 6 – Spill Emergency Response Plan; • Element 7 – Pipe Blockage Control Program; • Element 8 – System Evaluation, Capacity Assurance and Capital Improvement Plan; • Element 9 – Monitoring, Measurement, and Program Modifications; • Element 10 – SSMP Audits; and • Element 11 – Communication Program The Wastewater Manager is assisted by Sewer System Operators to manage and implement these Elements.	garyg@ci.salinas.ca.us
David Jacobs, Public Works Director	The Public Works director is responsible for Element 5 Design and Performance Provisions and Element 8 System Evaluation, Capacity Assurance and Capital Improvement Plan to determine adequate design and performance measures are in place and that adequate hydraulic capacities are in place for City collection and conveyance systems	(831) 758-7390 davidj@ci.salinas.ca.us

2.4 Chain of Communication for Responding to Sewer Spills

Sewer Spill reports typically begin with a call from an observer to the City Office or 911 dispatchers.

City of Salinas

Business Hours: (831) 758-7233 7am - 3:30pm Monday through Friday, except Legal Holidays

After Hours: 911

During the process of responding to a sewer spill, the following actions are taken as outlined in Figure 3-1 and described below to verify the report and ensure the safety of the public:

1. During business hours, Wastewater Operators receive the call from an observer, the Police Department and/or the Fire Department and obtains the location of concern and a description of the problem. The name and phone number of the caller is requested and documented if not anonymous for follow-up information.

2. After hours, the Police Department and/ore the Fire Department and the On-Call Staff proceeds to the location to verify the report.

3. If a sewer spill is verified, the On-Call Staff notifies the CPO and directed to the described location. The Spill Emergency Response Plan (SERP) is initiated.

4. Operations staff will notify the CPO and Wastewater Manager both during and after business hours.

5. California Office of Emergency Services (CalOES) must be contacted within two (2) hours of a Category 1 or Category 2 Spill, when the Spill is over 1,000 gallons and reaches a drainage channel or surface water. The Central Coast Regional Water Quality Control Board (RWQCB) may also be notified if warranted.

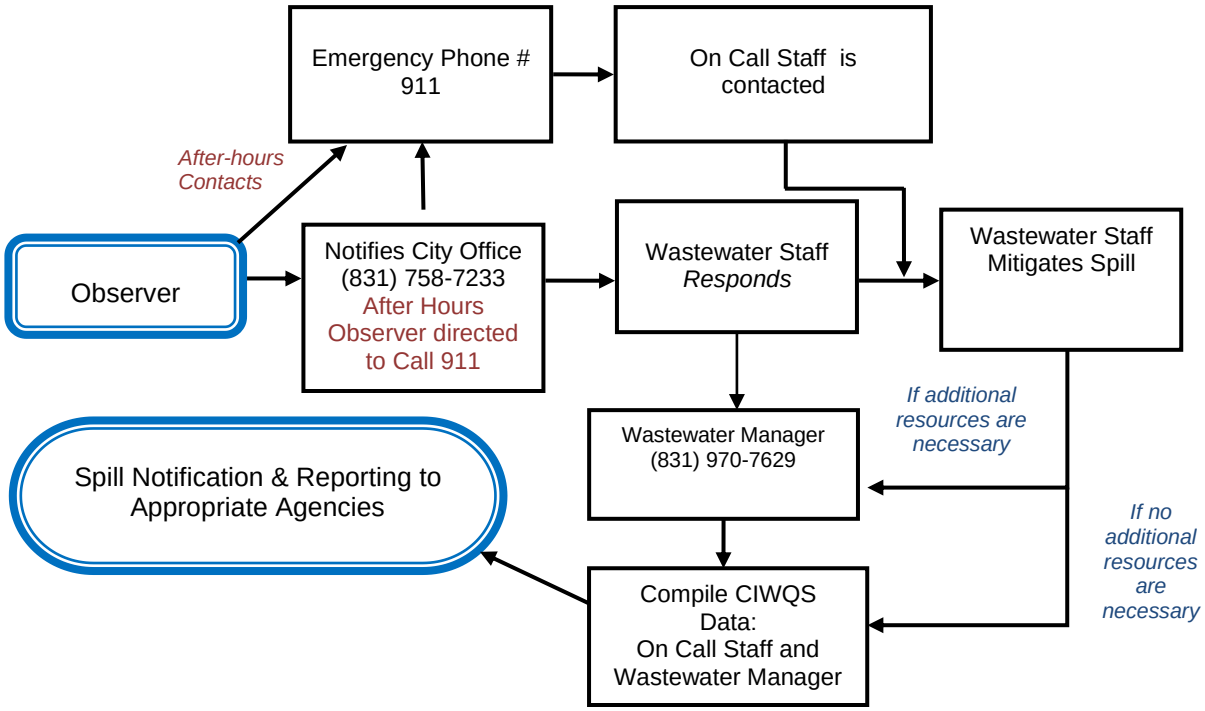


Figure 2-1: Sewer Spill Response Chain of Command

SSMP Element 6 – Spill Emergency Response Plan contains a chain of communication for reporting Spills for use in the field by the Operations Staff in Figure 6—1 which is the same as Figure 2-1 above.

Sewer Spill notification is outlined in the City's – Spill Emergency Response Plan. The contact information and notification requirements associated with notifying Cal OES and other applicable agencies, such as Monterey County Environmental Health Division, are included in that SSMP Element.

Upon completion of containment and clean-up, the Wastewater Manager initiates the Draft Sewer Spill Report in CIWQS.

ELEMENT 3 - LEGAL AUTHORITY

The City of Salinas (City) maintains the legal authority for the sanitary sewer system in the City Municipal Code sections listed below. These Codes are on file at the City Office and can also be located on the City Website:
https://library.municode.com/ca/salinas/codes/code_of_ordinances

3.1 Regulatory Requirements

WDR Order No. 2022-0103-DWQ Attachment D 3 states:

The wastewater collection system agency must include copies or an electronic link to the Enrollee's current sewer system use ordinances, service agreements and/or other legally binding procedures to demonstrate the Enrollee possesses the necessary legal authority to:

(a). Prevent illicit discharges into its sanitary sewer system from inflow and infiltration (I&I); unauthorized stormwater; chemical dumping; unauthorized debris; roots; fats, oils, and grease; and trash, including rags and other debris that may cause blockages;

(b). Collaborate with storm sewer agencies to coordinate emergency spill responses, ensure access to storm sewer systems during spill events, and prevent unintentional cross connections of sanitary sewer infrastructure to storm sewer infrastructure;

(c). Require that sewer system components and connections be properly designed and constructed;

(d). Ensure access for maintenance, inspection, and/or repairs for portions of the service lateral owned and/or operated by the Enrollee;

(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 SSMP Sanitary Sewer System Legal Authority [WDR D 3 (a) – (f)]

Table 3-1 below provides the mechanisms by which the City maintains the legal authorities required by the WDRs for public and private sewer systems. Theses Codes and Ordinances can be found in the following links:

- City of Salinas Codes
  https://library.municode.com/ca/salinas/codes/code_of_ordinances

Table 3-1: City Legal Authority References

WDR Requirement	City Code
D 3 (a) Prevent illicit discharges into its sanitary sewer system (examples may include Inflow & Infiltration (I/I), storm water, chemical dumping, unauthorized debris and cut roots, etc.).	City Municipal Code Chapter 36-20.1. Disposal of hazardous and unacceptable waste City Municipal Code Chapter 36-20.4. Prohibition on storm drainage, ground water and unpolluted water City Municipal Code Chapter 36-21-1 Prohibitions on Industrial Discharges
D 3 (b) Collaborate with storm sewer agencies to coordinate emergency spill responses, ensure access to storm sewer systems during spill events, and prevent unintentional cross connections of sanitary sewer infrastructure to storm sewer infrastructure	The City owns and operates the sewer and stormdrain systems and coordinates internally for spills that may threaten the City's stormdrain system. The City monitors new infrastructure projects through plan checks and construction inspection to ensure cross connections do not occur between sewer and stormdrain systems. The following Code sections restrict illegal/cross connections: • Sec. 29-9 General discharge prohibition—Illegal discharges • Sec 29-13 Illicit Connections
D 3 (c) Require that sewers and connections be properly designed and constructed;	City of Salinas Standard Specifications, Design Standards and Standard Plans 2008 Edition & Municipal Code Chapter 2, Article IX, Section 2-52: Compliance Required City Resolution No. 11648 for Installation of Sewer Laterals **https://www.cityofsalinas.org/Your-Government/Find-a-Department/Public-Works/PW-Maintenance-Services/Environmental-Maintenance-Services/Sanitary-Sewer-Maintenance**
D 3 (d) Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the Public Agency;	The City does not own any portion of private sewer laterals in the service area however the following code give them access to sewer laterals: Chapter 36, Section 36-34 Inspection of Premises and Access to Records
D 3 (e) Enforce any violation of its sewer ordinances.	City Municipal Code Chapter 36 – Industrial Waste, Wastewater Collection and Discharge, Division 7 Enforcement and Penalties

WDR Requirement	City Code
D 3 (f) Obtain easement accessibility agreements for locations requiring sewer system operations and maintenance, as applicable	The City has the legal authority to develop easements as necessary for underground utilities. City Municipal Code Chapter 31 Subdivision Ordinance: Section 31-903.12 - Easements

ELEMENT 4 - OPERATION AND MAINTENANCE PROGRAM

The City of Salinas (City) provides sanitary sewer collection and conveyance services and treatment for the Industrial System. The City service area consists of approximately 6 miles of wastewater collection and interceptor lines and 0.5 miles of force main lines. The City owns one (1) lift station with a corresponding force main in the Industrial System. The system includes sewer line sizes ranging from 12 – 42 inches in diameter. The system is comprised primarily of VCP, with sections of PVC pipe installed with newer construction. The majority of day-to-day operations and maintenance activities are conducted by City Staff. This SSMP Element 4 outlines the work that is conducted to accomplish the optimal operation and maintenance of the City's collection system. Table 4.1 illustrates the current age of sewer lines in the system.

Table 4-1: Age of Sewer Lines

Sewer Line Age	Percent of Sewer System
Year 2000 to Present	16%
1980 to 1999	11%
1960 to 1979	20%
1940 to 1959	53%
1920 to 1939	0%
1900 to 1919	0%

In addition to the sewer mains above, the City receives wastewater from approximately 24 sewer lateral connections of various age. Sewer laterals are owned and maintained by property owners.

A general overview of the City Sewer System is provided in Figure 4-1: Collection System Overview Map. Indexed pages to this map are located at City Wastewater Division Office, City Yard and in Service Trucks.

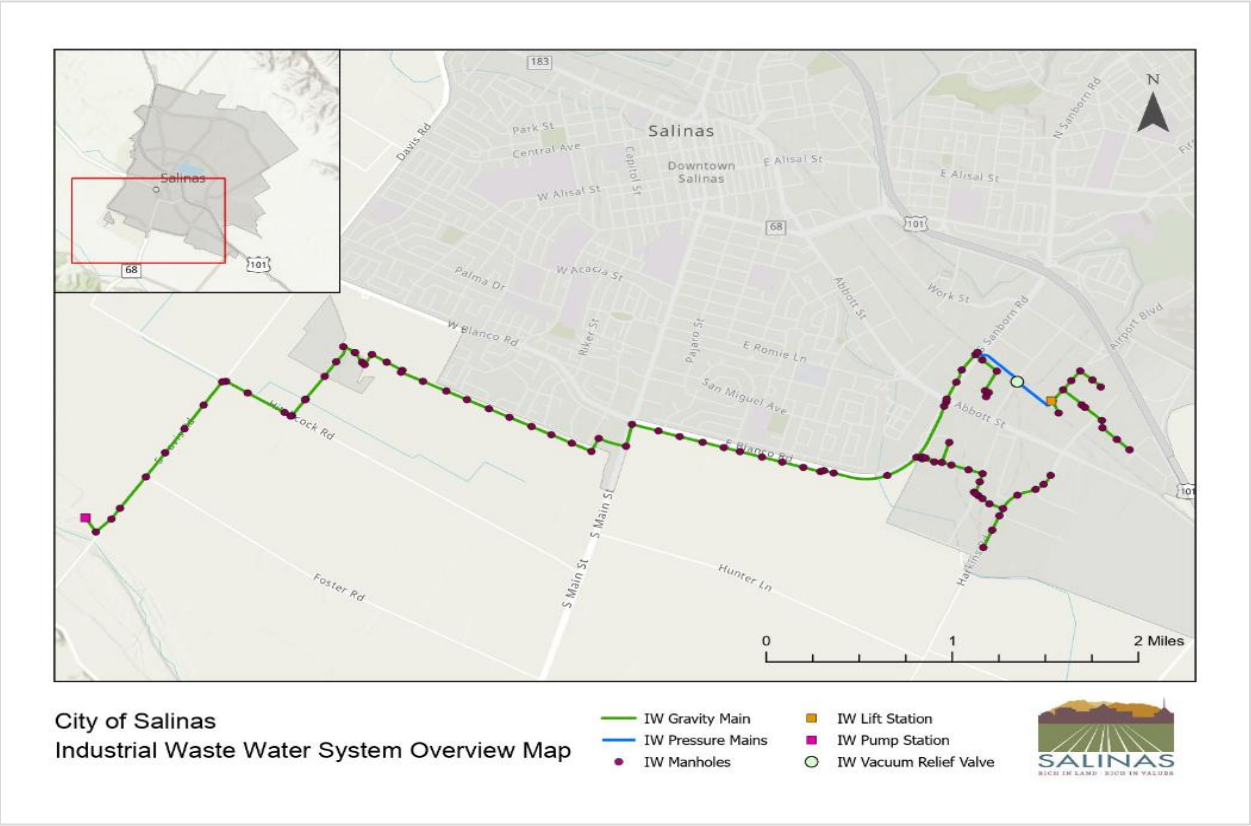


Figure 4-1: Collection System Overview Map

The City owns and maintains one (1) wastewater lift station within the industrial collection and conveyance system. This Lift Station location is identified in the Sewer Atlas Map maintained at the City Wastewater Division Office and illustrated in Figure 4-1. A System Overview for the Industrial Sewer System identified above is included on the City website: **https://www.cityofsalinas.org/Your-Government/Departments/Public-Works/PW-Maintenance-Services/Environmental-Maintenance-Services/Sanitary-Sewer-Maintenance**.

4.1 Regulatory Requirements

Attachment D 4. states:

The SSMP must include those sections listed below that are appropriate and applicable to the Enrollee's system:

(a) Up-to-date map(s) of the sanitary sewer system, and procedures for maintaining and providing State and Regional Water Board staff access to the map(s). The map(s) must show gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable stormwater conveyance facilities within the sewer system service area boundaries.;

(b) A scheduling system and a data collection system for preventive operation and maintenance activities conducted by staff and contractors.
   a. The scheduling system must include:
      i. Inspection and maintenance activities;
      ii. Higher-frequency inspections and maintenance of known problem areas, including areas with tree root problems;
      iii. Regular visual and closed-circuit television (CCTV) inspections of manholes and sewer pipes.

   The data collection system must document data from system inspection and maintenance activities, including system areas/components prone to root-intrusion potentially resulting in system backup and/or failure.

(c) In-house and external training provided on a regular basis for sanitary sewer system operations and maintenance staff and contractors. The training must cover:
      i. The requirements of this General Order;
      ii. The Enrollee's Spill Emergency Response Plan procedures and practice drills;
      iii. Skilled estimation of spill volume for field operators; and
      iv. Electronic CIWQS reporting procedures for staff submitting data.

(d) An inventory of sewer system equipment, including the identification of critical replacement and spare parts.

4.2 Collection System and Storm Drain Maps

4.2.1 Sewer Collection and Conveyance

The City maintains maps, which are based on record drawings, and are prepared into Zone Atlas Maps. Zone Atlas Maps identify sewer line; location, size, material and year of installation. Zone Atlas Maps are distributed to field crew and engineering staff to map out and track field activities.

Corrections to Zone Atlas Maps are noted and submitted to Engineering staff. Engineering staff maintains a "Master" Zone Atlas Map and will show corrections here. Updated hard-copy maps are re-distributed to maintenance staff and will display a date identifying the latest version of the Atlas Map. The City also maintains a GIS map layer of the sewer system.

The City's industrial sewer system mapping and maintenance tracking is a collaborative effort by the City's Engineering and Transportation Division, Information Systems, GIS, and

Environmental and Maintenance Services Division of Public Works. A GIS database/tracking system has been established to track maintenance of the sanitary sewer system. Existing municipal maintenance and sewer spill information is incorporated into the database/tracking system. The database includes completed maintenance work and a record of problem areas to facilitate maintenance planning and oversight.

A general overview of the sewer collection and conveyance system is shown in Figure 4-1.

The City Public Works Department maintains copies of all wastewater collection and conveyance plans upon completion of construction and acceptance by the City. A general overview map of the entire City sewer collection and conveyance system is included on the City website: **https://www.cityofsalinas.org/our-city-services/public-works**.

4.2.2 Storm Water Conveyance Map

The City owns and operates storm water conveyance facilities within the service area. Storm water maps are maintained at the City Wastewater Division Office as hard copy maps and as a GIS layer. This map can be printed as hard copy maps to be utilized by City maintenance staff in the event of a Sanitary Sewer Spill to identify storm water inlets and outlets and isolate/capture wastewater that may enter the storm drain system. An overview map of the City MS4 System is available of the City website: **https://www.cityofsalinas.org/our-city-services/public-works**.

4.3 Preventative Maintenance Program

The City manages, schedules, and tracks preventative maintenance activities in their GIS based Computerized Maintenance and Management System. The system covers the following:

- Sewer Line Cleaning
- High Priority Area Cleaning and Inspections
- Manhole Inspections and Maintenance
- Lift Station Inspection and Maintenance
- Customer Complaints
- Work Orders
- CCTV Inspections
- Air Relief and Vacuum Relief Valve Inspections

Routine maintenance that requires follow up is flagged in the CMMS with a “Follow up Maintenance Needed” code in the system.

4.3.1. CCTV Inspection

The City is planning to conduct contracted CCTV investigations of the entire system in 2026 and 2027. This information will be one of the primary methods to identify sewer line rehabilitation and replacement projects in the future.

When CCTV investigations are complete they will be analyzed to; identify, rank and prioritize areas of the sewer system that require rehabilitation and replacement. A summary of these CCTV investigations will be included in **Appendix 4A** when completed. Staff has not observed any evidence of significant structural issues or flow restrictions within the IW system and there have been zero sewer spills as a result of structural pipeline deficiencies or pipeline restrictions.

4.3.2 Line Cleaning

The City cleaned the upper portion of the system which includes smaller 12” and 14” lines in 2023. City staff monitors manholes for sediment associated with industrial discharge to establish if additional cleaning is necessary. The majority of the system consists of lager diameter 18” – 42” lines which provide a significant amount of scouring and have not required routine cleaning.

The City will be evaluating the frequency at which the entire system is cleaned based on the results of future sewer line cleaning and the results of CCTV data completed in conjunction with this contracted cleaning. The City will complete an analysis of this data and based on the results, develop a new schedule for system wide sewer cleaning which will be included in future revisions to the SSMP. An analysis of sewer line cleaning and CCTV data will be included in **Appendix 4A** when complete. As stated earlier Staff has not observed any evidence of significant structural issues or flow restrictions within the IW system and there have been zero sewer spills as a result of structural pipeline deficiencies or pipeline restrictions.

4.3.3 Manhole Inspection

City Industrial System Manholes will be inspected in conjunction with sewer line cleaning activities. The City utilizes the Manhole Inspection Form for routine documentation of manhole conditions. When significant issues are observed during these routine manhole inspections, a more detailed inspection and assessment is conducted by maintenance staff. Relevant information from these sheets is planned to be maintained for consideration in future rehabilitation and/or CIP.

4.3.4 High Priority Areas

The City will identify High Priority Areas (HPAs) through CCTV and Line Cleaning observations. HMAs will be added to the City’s HMA list as they are identified. A list of HPAs will be included in the SSMP when completed. A cleaning interval for HPAs will be assigned as areas are identified within the Industrial System.

4.3.5 Lift Station Operation and Maintenance

As previously referenced in the introduction to this SSMP Element, the City operates one (1) lift station within the City Industrial service area. This station is provided with a triplex pumping system for redundancy and reliability. This redundant system allows for continued operation of a lift station in the event of pump failure and includes a receptacle for operation by an emergency portable backup power supply if necessary. Stations are monitored remotely through a SCADA System which contacts “on-call” staff in the event of an emergency. Operational parameters and alarms for each station can be adjusted manually as necessary. Technical Information on this Lift Station is included in the City’s Industrial Waste Lift Station Spill Emergency Response Plan which is maintained on file at the Wastewater Division office.

This lift station is inspected by City staff 5 days a week. Inspections consist of logging pump run times and performing a general inspection of major critical components of the station, such as pump operation, station controls, and alarms.

4.3.6 Customer Requests/Complaints

The City utilizes Q-Alert reporting system a work order (Industrial Waste System Work Order) to document customer requests and complaints and to address routine work requests within the system. Staff investigates and completes associated sewer related tasks as appropriate and

generates a work order based on the nature of the investigation. Completed Q-Alerts are electronically stored. If staff investigations result in significant discoveries in the field (E.g. sewer line restriction or sewer spill) relevant data is reported to the Wastewater Division Manager for follow-up.

4.4 Training

Training programs include formal classroom, tailgate training and on-the-job training. Training is facilitated by both City Staff and outside training workshops. On-the-job cross training is pursued to ensure Staff has a proficient working knowledge of the sanitary sewer system and that critical tasks can be performed without interruption. Task proficiency is a requirement for all job positions and promotions.

Operations and Maintenance (O&M) related training is conducted on an ongoing and as needed basis. Operations and Maintenance Staff are initially trained in the proper operation and maintenance of all new major mobile equipment and facilities by the respective contractor or manufacturer. Written operation and maintenance manuals are used as resource material for equipment start-up training and new staff training.

Written operation and maintenance manuals are used as resource material for equipment start-up training and new staff training. In addition to these resource materials, the City has developed the following Operations and Maintenance Standard Operating Procedures applicable to the wastewater collection and conveyance system:

- SOP -01 Annual Collection System Cleaning
- SOP-02 Sewer Line Cleaning & Safety Guides for Vac-Con Truck
- SOP-03 Lift Stations
- SOP-08 Vac-Con 692 Hydro Truck
- SOP-11 Confined Space Written Program
- SOP-13 Generator Operation
- WATCH Traffic Control Manual

The City also conducts regular training in the following areas:

- The requirements of General Order WQ 2022-0103-DWQ;
- Spill Emergency Response Plan procedures and practice drills;
- Estimation of spill volume and spill response/mitigation; and
- Electronic CIWQS reporting procedures for staff submitting data.

Training records are maintained by the Wastewater Division Manager at the Public Works Office.

4.5 Equipment and Replacement Parts Inventory

Equipment and replacement parts inventories are provided as discussed below.

4.6.1 Critical Parts and Equipment

The City maintains an inventory of critical parts and equipment which are utilized for both routine and emergency operations. A critical parts and equipment list is maintained in the office

of the Wastewater Division Managers Computer. In the event of an emergency, local retailers and contractors are available to supply additional equipment and parts on short notice.

ELEMENT 5 - DESIGN AND PERFORMANCE PROVISIONS

The standards and specifications for new construction and repair of the existing sanitary sewer system described in this SSMP Element are utilized to ensure a high quality, well designed, and functioning sanitary sewer system.

5.1 Regulatory Requirements

WDR Order No. 2022-0103-DWQ Section D 5 states that the SSMP must identify:

(a) Updated design criteria, and construction standards and specifications, for the construction, installation, repair, and rehabilitation of existing and proposed system infrastructure components, including but not limited to pipelines, pump stations, and other system appurtenances. If existing design criteria and construction standards are deficient to address the necessary component-specific hydraulic capacity as specified in section 8 (System Evaluation, Capacity Assurance and Capital Improvements), the procedures must include component-specific evaluation of the design criteria.;

(b) Procedures, and standards for the inspection and testing of newly constructed, newly installed, repaired, and rehabilitated system pipelines, pumps, and other equipment and appurtenances

5.2 Design and Construction Standards and Specifications

In 2008, the City adopted Standard Specifications, Design Standards and Standard Plans for Sewer Mains to provide minimum standards for the design, methods of construction, kinds and uses of materials, and the preparation of plans for construction, sewerage, road repair and facilities within the City service area.

Where any portion of such improvement is to be offered to the City for operation and/or maintenance, 2008 Design Standards include:

- Part I Standard Specifications, Section 71 Sewers
  This section cover provides requirements for:
  - acceptable materials,
  - acceptable conditions for installation,
  - repairs,
  - fittings & joints,
  - installation requirements,
  - field inspection,
  - field testing requirements,
  - acceptable sizing for pipelines and manholes
  - Lift Stations (Pumping Plant Equipment) are referenced in Section 74 and identified as utilizing State Standard Specifications. Staff reports that Lift Stations are designed by Licensed Professional Engineers to meet existing conditions in the field.

- Part II: Sanitary Sewer Design

- A. Design: provides direction on acceptable peak flow rates and slopes
- B. Depth of Sewers: provides direction on acceptable sewer depths for mains and laterals
- C. Connections to Sewers: provides direction on acceptable wye connections to sewer mains.

- Part III: Standard Plans
  - Standard Plan 16: Trench Backfill and Surface Restoration
  - Standard Plan 25: Type A & Type B Manholes
  - Standard Plan 26: Type C Manhole (Shallow Type)
  - Standard Plan 27: Manhole Frame and Cover
  - Standard Plan 28: Manhole Frame and Cover Adjustment
  - Standard Plan 29: Sewer Saddle Connection
  - Standard Plan 30: Flushing Inlet Frame and Cover Flushing Inlet
  - Standard Plan 31: Flushing Inlet
  - Standard Plan 32: Sewer Lateral (VCP)

All work must be completed based on the above standards. Any alterations to this must be approved by City Engineering staff.

The City 2008 Standard Specifications, Design Standards and Standard Plans are located on the City Website: **https://www.cityofsalinas.org/Your-Government/Departments/Public-Works/Development-Engineering**

A hard copy of City Standard Specifications, Design Standards and Standard Plans are also on file at City offices.

5.3 Inspection and Testing Procedures and Standards

Procedures and standards for the acceptance testing and inspection of new and repaired sewer mains are specified in:

- Part I Standard Specifications, Section 71 Sewers
  This section cover provides requirements for:
  - acceptable materials,
  - acceptable conditions for installation,
  - repairs,
  - fittings & joints,
  - installation requirements,
  - field inspection,
  - field testing requirements,
  - acceptable sizing for pipelines and manholes

ELEMENT 6 - SPILL EMERGENCY RESPONSE PLAN

Sanitary Sewer Spills (Spills) can occur due to unforeseen accidents, unusual equipment failures, or other events not controllable by the City. A Spill Emergency Response Plan is maintained by the City Wastewater Division for City maintenance personnel to use as guidance in responding to Spills. The Spill Emergency Response Plan defines procedures to:

- protect public health and the environment
- comply with local, state, and federal regulatory agency requirements
- protect City personnel, the wastewater collection system, and private and public properties

The Spill Emergency Response Plan (SERP) is summarized in this SSMP Element. The City has developed a comprehensive Spill Emergency Response Plan to address emergency response and follow activities for Spills experienced in the City's collection and conveyance system located in on the City's website: **https://www.cityofsalinas.org/Your-Government/Find-a-Department/Public-Works/PW-Maintenance-Services/Environmental-Maintenance-Services/Sanitary-Sewer-Maintenance**. The City also maintains a separate Emergency Response Plans for the individual Lift Stations.

6.1 Regulatory Requirements

WDR Order No. 2022-0103-DWQ Attachment D 6 states:

The Plan must include an up-to-date Spill Emergency Response Plan to ensure prompt detection and response to spills to reduce spill volumes and collect information for prevention of future spills. The Spill Emergency Response Plan must include procedures to:

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 Initial Spill Notification Procedures

If a member from the public witnesses a Spill, they contact City on call staff by way of the City office at (831) 758-7233 during normal business hours. Calls to the City after hours or on weekends and holidays are directed to the 911 and Monterey County Dispatch which contacts staff responsible for “On-Call” duty.

6.2.1 The City Staff as the First Responder

If City staff is contacted during normal business hours Monday through Friday, excluding legal holidays, administrative staff at the City office, call the Wastewater Crew Supervisor or the next available Wastewater staff to investigate the situation utilizing the contact information found in the SERP. If City staff needs assistance responding to the Spill, the first responder calls additional Senior Wastewater staff utilizing the contact information found in Table 6-1.

Table 6-1: Maintenance Staff Contact Information

Title	Contact	Number
Wastewater Division Manager	Gary Gabriel	(831) 970-7629
Maintenance Staff / On Call Responder	On Call Phone	(831) 970-7634
	Ray Lerma (Wastewater Crew Supervisor)	(831) 970-8287
	Matthew Bates (Wastewater Crew Supervisor)	(831) 737-3010
	Albert Aries	(831) 208-4862
	Robert Reyna	(831) 970-7621

If City staff are contacted ***after normal business hours***, on a holiday, or during the weekend, on-call maintenance staff are contacted by dialing the City office or 911. The call will be routed to Monterey County Dispatch who contacts the City on-call phone, and staff responds accordingly.

After normal operating hours, one member of the Wastewater staff is on-call as a primary on-call wastewater emergency responder.

Figure 6-1 illustrates the chain of command, which must be observed and followed when a Spill occurs:

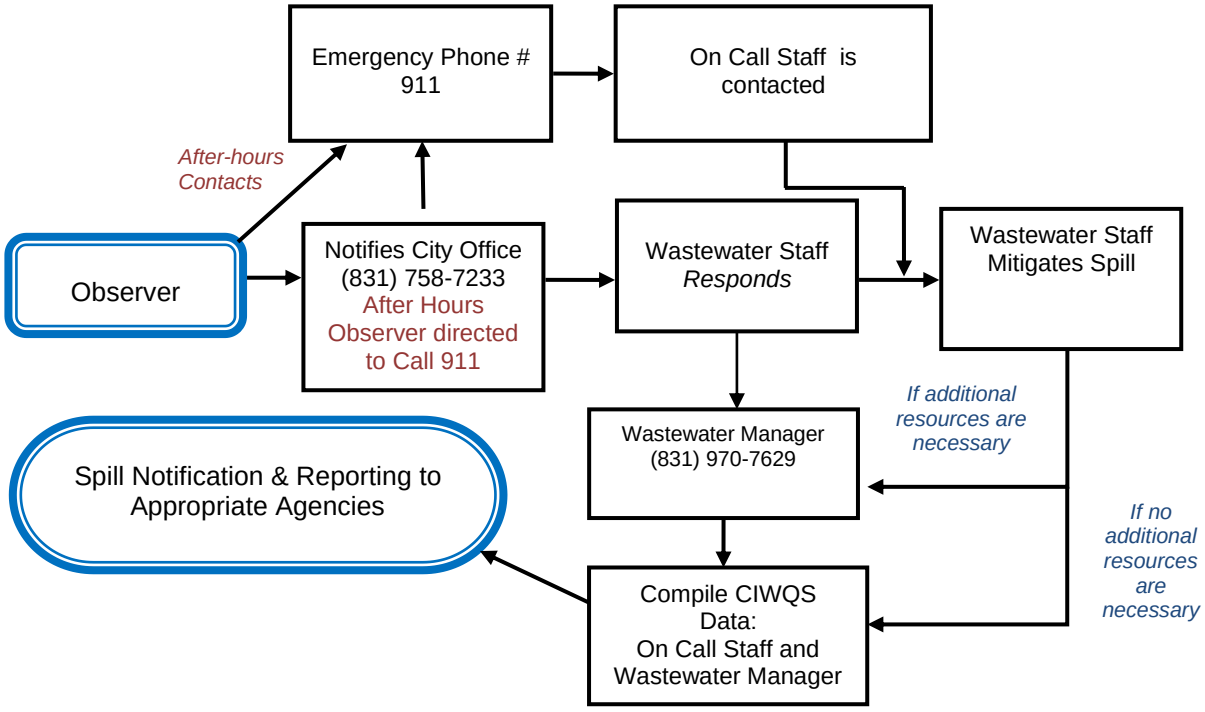


Figure 6-1: Spill Response Chain of Command

6.3 Spill Response Program

The City SERP documents provide a comprehensive Emergency Response Program consisting of the following:

- Spill Detection and Notification
- Spill Response Procedures
- Spill Recovery and Cleanup
- Water Quality Monitoring/Sampling
- Private Property Spill Procedures
- Notification, Reporting and Record Keeping Requirements
- Post Spill Investigation & Debriefing

- Failure Analysis Investigation
- Spill Response Training (training records maintained at City office)
- Spill Response Workbook
- Lift Station Emergency Response Procedures

6.4 Spill Notification and Reporting Procedures

This section of the SERP ensures proper notification and reporting of Spills, which occur in the City's sanitary sewer system, to protect public and environmental health.

An overview of the notification and reporting process is listed in Table 6-1. This overview is not inclusive of all the notification and reporting requirements and procedures. The following section of this SSMP Element correspond to each Spill category for notifications and reporting that must be referenced and followed.

Spill Category 1: Spills to Surface Waters and/or SW Conveyance System		
Spill Requirement	**Schedule**	**Method**
Notification	**Within two (2) hours** of the Enrollee's knowledge of a Category 1 spill of 1,000 gallons or greater, discharging or threatening to discharge to surface waters: Notify the California Office of Emergency Services and obtain a notification control number.	California Office of Emergency Services at: (800) 852-7550
Reporting	• Submit Draft Spill Report **within three (3) business days** of the Enrollee's knowledge of the spill; • Submit Certified Spill Report **within 15 calendar days** of the spill end date; • Submit Technical Report **within 45 calendar days** after the spill end date for a Category 1 spill in which **50,000 gallons or greater** discharged to surface waters; and • Submit Amended Spill Report within **90 calendar days** after the spill end date.	CIWQS
Spill Category 2: Spills of 1,000 Gallons of Greater That Do Not Discharge to Surface Waters		
Spill Requirement	**Schedule**	**Method**
Notification	**Within two (2) hours** of the Enrollee's knowledge of a Category 2 spill of 1,000 gallons or greater, discharging or threatening to discharge to waters of the State: Notify California Office of Emergency Services and obtain a notification control number.	California Office of Emergency Services at: (800) 852-7550
Reporting	• Submit Draft Spill Report **within three (3) business days** of the Enrollee's knowledge of the spill; • Submit Certified Spill Report **within 15 calendar days** of the spill end date; and • Submit Amended Spill Report **within 90 calendar days** after the spill end date.	CIWQS

Spill Category 3: Spills of Equal or Greater than 50 Gallons and Less than 1,000 Gallons That Does Not Discharge to Surface Waters		
Spill Requirement	**Schedule**	**Method**
Notification	Not Applicable	Not Applicable
Reporting	• Submit monthly Certified Spill Report to the online CIWQS Sanitary Sewer System Database within **30 calendars days** after the end of the month in which the spills occur; and • Submit Amended Spill Reports **within 90 calendar days** after the Certified Spill Report due date.	CIWQS

Spill Category 4: Spills Less Than 50 Gallons That Do Not Discharge to Surface Waters		
Spill Requirement	**Schedule**	**Method**
Notification	Not Applicable	Not Applicable
Reporting	• If, during any calendar month, Category 4 spills occur, certify monthly, the estimated total spill volume exiting the sanitary sewer system, and the total number of all Category 4 spills into the online CIWQS Sanitary Sewer System Database, within 30 days after the end of the calendar month in which the spills occurred. • Upload and certify a report, in an acceptable digital format, of all Category 4 spills to the online CIWQS Sanitary Sewer System Database, by February 1st after the end of the calendar year in which the spills occur.	CIWQS

Enrollee Owned and/or Operated Lateral Spills That Do Not Discharge to Surface Waters		
Spill Requirement	**Schedule**	**Method**
Notification	**Within two (2) hours** of the Enrollee's knowledge of a spill of 1,000 gallons or greater, from an enrollee- owned and/or operated lateral, discharging or threatening to discharge to waters of the State: Notify California Office of Emergency Services and obtain a notification control number. Not applicable to a spill of less than 1,000 gallons.	California Office of Emergency Services at: (800) 852-7550
Reporting	• Upload and certify a report, in an acceptable digital format, of all lateral spills (that do not discharge to a surface water) to the online CIWQS Sanitary Sewer System Database, by February 1st after the end of the calendar year in which the spills occur. • Report a lateral spill of any volume that discharges to a surface water as a Category 1 spill.	CIWQS

Table 6-1: Spill Notification and Reporting Overview

6.4.1 Spill Notification Procedure

Spill notification procedures vary based on whether the Spill is classified as a Category 1, Category 2, Category 3, Category 4 or Enrollee Owned Lateral and are included in the SERP: Spill Notification section.

Notification of Spills of 1,000 Gallons or Greater to the California Office of Emergency Services

Per Water Code section 13271, for a spill that discharges in or on any waters of the State, or discharges or is deposited where it is, or probably will be, discharged in or on any waters of the State, the City shall notify the California Office of Emergency Services and obtain a California Office of Emergency Services Control Number as soon as possible **but no later than two (2) hours** after:

- The City has knowledge of the spill; and
- Notification can be provided without substantially impeding cleanup or other emergency measures.

The notification requirements in this section apply to individual spills of 1,000 gallons or greater, from an Enrollee-owned and/or operated laterals, to a water of the State.

Spill Notification Information

The Enrollee shall provide the following spill information to the California Office of Emergency Services before receiving a Control Number, as applicable:

- Name and phone number of the person notifying the California Office of Emergency Services;
- Estimated spill volume (gallons);
- Estimated spill rate from the system (gallons per minute);
- Estimated discharge rate (gallons per minute) directly into waters of the State or indirectly into a drainage conveyance system;
- Spill incident description:
    - Brief narrative of the spill event, and
    - Spill incident location (address, city, and zip code) and closest cross streets and/or landmarks;
- Name and phone number of contact person on-scene;
- Date and time the Enrollee was informed of the spill event;
- Name of sanitary sewer system causing the spill;
- Spill cause or suspected cause (if known);
- Amount of spill contained;
- Name of receiving water body receiving or potentially receiving discharge; and
- Description of water body impact and/ or potential impact to beneficial uses.

Notification of Spill Report Updates

Following the initial notification to the California Office of Emergency Services and until such time that the Enrollee certifies the spill report in the online CIWQS Sanitary Sewer System Database, the Enrollee shall provide updates to the California Office of Emergency Services regarding substantial changes to:

- Estimated spill volume (increase or decrease in gallons initially estimated);
- Estimated discharge volume discharged directly into waters of the State or indirectly into a drainage conveyance system (increase or decrease in gallons initially estimated); and
- Additional impact(s) to the receiving water(s) and beneficial uses.

6.4.1.1 **Category 1 Spills** (Spills to Surface Waters)

Within **two (2) hours** of the City's knowledge of a Category 1 spill of 1,000 gallons or greater, discharging or threatening to discharge to surface waters:

- Notify the California Office of Emergency Services and obtain a notification control number.

Table 6-2: Regulatory Agency Notification Information for a Spill to Surface Water

Regulatory Agency Contacts

California Office of Emergency Services (Cal OES)	Within two (2) hours of the City's knowledge of a Category 1 spill of 1,000 gallons or greater, discharging or threatening to discharge to surface waters notify the California Office of Emergency Services and obtain a notification control number at (800) 852-7550
Regional Water Quality Control Board (RWQCB)	***Optional*** – If spill is over 1,000 gallons, reaches waterway, or occurred in area with likely public contact, call (805) 549-3147.
Monterey County Environmental Health	***Optional***- If spill reaches waterway, call (800) 253-2687. Give the spill information.
California Department of Fish and Wildlife	***Optional*** -If spill reaches waterway, call state office (831) 649-2870.

6.4.1.2 **Category 2 Spills**

(Spills of 1,000 Gallons or Greater That Do Not Discharge to Surface Waters)

Within **two (2) hours** of the City's knowledge of a Category 2 spill of 1,000 gallons or greater, discharging or threatening to discharge to waters of the State:

- Notify California Office of Emergency Services and obtain a notification control number.

6.4.1.3 **Category 3 Spills**

(Spills of Equal or Greater than 50 Gallons and Less than 1,000 Gallons That Does Not Discharge to Surface Waters)

- Not Applicable

6.4.1.4 **Category 4 Spills**

(Spills Less Than 50 Gallons That Do Not Discharge to Surface Waters)

- Not Applicable

6.4.1.5 **Enrollee Owned and or Operated Lateral Spills that do not Discharge to Surface Waters**

Within two (2) hours of the City's knowledge of a spill of 1,000 gallons or greater, from an enrollee- owned and/or operated lateral, discharging or threatening to discharge to waters of the State:

- Notify California Office of Emergency Services and obtain a notification

control number.

- Not applicable to a spill of less than 1,000 gallons.

6.4.2 Spill Reporting Procedure

Spill reporting procedures vary based on whether the Spill is classified as Category 1, Category 2, Category 3, Category 4 or City Owned Lateral. A full description of Spill reporting requirements is found in the City SERP.

Category 1 Spills

- Submit Draft Spill Report within three (3) business days of the City's knowledge of the spill;
- Submit Certified Spill Report within 15 calendar days of the spill end date;
- Submit Technical Report within 45 calendar days after the spill end date for a Category 1 spill in which 50,000 gallons or greater discharged to surface waters; and
- Submit Amended Spill Report within 90 calendar days after the spill end date.
  Spill Technical Report

Category 2 Spills

- Submit Draft Spill Report within **three (3) business days** of the City's knowledge of the spill;
- Submit Certified Spill Report within **15 calendar days** of the spill end date; and
- Submit Amended Spill Report within **90 calendar days** after the spill end date.

Category 3 Spills

- Submit monthly Certified Spill Report to the online CIWQS Sanitary Sewer System Database within **30 calendars days** after the end of the month in which the spills occur; and
- Submit Amended Spill Reports **within 90 calendar days** after the Certified Spill Report due date.

Category 4 Spills

- If, during any calendar month, Category 4 spills occur, certify monthly, the estimated total spill volume exiting the sanitary sewer system, and the total number of all Category 4 spills into the online CIWQS Sanitary Sewer System Database, within **30 days** after the end of the calendar month in which the spills occurred.
- Upload and certify a report, in an acceptable digital format, of all Category 4 spills to the online CIWQS Sanitary Sewer System Database, by **February 1st** after the end of the calendar year in which the spills occur.

Enrollee Owned and/or Operated Lateral Spills That Do Not Discharge to Surface Waters

- Upload and certify a report, in an acceptable digital format, of all lateral spills (that do not discharge to a surface water) to the online CIWQS Sanitary Sewer System Database, by **February 1st** after the end of the calendar year in which the spills occur.
- Report a lateral spill of any volume that discharges to a surface water as a Category 1 spill.

6.5 SERP Training

The City implements a formal training program which includes annual training of City staff on this SSMP Element and SERP. The City also require contractor personnel to train on and follow SERP through their contracts. The City maintains a log of SERP Training with this Element as training is completed.

6.6 Spill Impact Mitigation Program

The Spill Mitigation Program is comprised of the mitigation practices contained in the SERP, which is on file at the City Department of Public Works Wastewater Division Office.

The SERP includes Water Quality Monitoring, Beneficial Uses Identification and Spill Impact Mitigation section providing information to post water body warning and closure signs in the event that a spill reaches a surface water, and City Department of Public Works conducts water quality sampling for the spill impact assessment.

6.7 Spill Coordination with Stormwater Management Agencies and Public Water Systems

City Stormwater Compliance Division of Public Works manages the MS4 Stormwater Program which includes the entire City service area. Maps of the stormwater collection and conveyance system are available to City staff which allows them to isolate any areas impacted by a sewer spill, recover this wastewater and return it to the sewer system. Municipal water system contacts are identified for notification of spills that may occur within 1000 ft of a surface water intake in the City SERP.

6.8 Post Spill Investigations

The City conducts Post Spill Investigations for Category 1, 2, and 3 spills as warranted.

ELEMENT 7 – PIPE BLOCKAGE CONTROL PROGRAM

The City of Salinas does not have a significant number of Commercial/Industrial Facilities that contribute Fats, Oils and Grease (FOG) or other Pipe Blocking Materials into the industrial sewer system. Pipe Blocking Materials have not been a contributing factor in any industrial system sewer spills.

7.1 Regulatory Requirements

WDR Order No. 2022-0103-DWQ Attachment D 7 states:

> The Sewer System Management Plan must include procedures for the evaluation of the Enrollee's service area to determine whether a sewer pipe blockage control program is needed to control fats, oils, grease, rags and debris. If the Enrollee determines that a program is not needed, the Enrollee shall provide justification in its Plan for why a program is not needed. The procedures must include, at minimum:
>
> (a). An implementation plan and schedule for a public education outreach program that promotes proper disposal of pipe blocking substances;
>
> (b). A plan and schedule for the disposal of FOG generated within the sanitary sewer system service area. This may include a list of acceptable disposal facilities and/or additional facilities needed to adequately dispose of FOG generated within a sanitary sewer system service area;
>
> (c). The legal authority to prohibit discharges to the system and identify measures to prevent spills and blockages;
>
> (d). Requirements to install grease removal devices (such as traps or interceptors) and the development of design standards for such devices, maintenance requirements, BMP requirements, record keeping and reporting requirements;
>
> (e). Authority to inspect grease producing facilities, enforcement authorities, and whether the City has sufficient staff to inspect and enforce the FOG ordinance;
>
> (f). An identification of sewer system sections subject to FOG blockages and establishment of a cleaning maintenance schedule for each section; and
>
> Implementation of source control measures for all sources of fats, oils, and grease reaching the sanitary sewer system for each section identified above

7.2 Pipe Blockage Control Program Public Outreach

The focus of an effective Pipe Blockage Control Program for the industrial system will include commercial and industrial facilities.

The City provides the following outreach and education materials that consist of the following:

- Residential and commercial outreach on proper Disposal of Wipes - "Toilets are not Trashcans" flyer which can be found on the City website: **https://www.cityofsalinas.org/Your-Government/Find-a-Department/Public-Works/PW-Maintenance-Services/Environmental-Maintenance-Services/Sanitary-Sewer-Maintenance**

- These facilities are also regulated by the City's wastewater pretreatment program which includes regular inspections and outreach on discharge prohibitions to the City's industrial sewer system.

7.3 City Determination that a FOG Program is not Required

The Cities industrial waste collection system has neither historically nor currently had Fats, oils or grease issues within its collection system. Most of the Industrial Waste Facility (IWF) users are fresh vegetable processors, packers, and coolers. Included in this group are the fresh-pack salad producers that continue to be the fastest growing segment of the City's users. Chlorinated effluent, ammonia refrigerant, solids, and hydraulic oil spills typify the potential concerns with their wastewater discharge. Two box companies comprise the next group of users. These companies manufacture corrugated cardboard containers using prefabricated rolled paper and use ink and waxes in the process of labeling and finishing the boxes. Control of heavy metals, hydraulic oil spills, wax and starch spills, high TDS, varying pH and slug discharges are potential concerns from this group.

Cal Marine Fish Company is the sole processor of seafood at one facility. Squid, herring, crab and shrimp are among the products prepared at this facility. From this seafood group, the City specifically monitors BOD, screening and sanitation. Although oils from fish processing present a potential concern, the oils, if any, do not present an issue for buildup in the collection system. Due to the small percentage of flow from this facility this user does not present a fats oils or grease source control problem for the collection system. There are no fats or grease discharged from the facility.

A FOG program is not indicated with the current industrial waste dischargers group.

7.4 Discharge Prohibition Legal Authority and Spill Prevention Measures

The City's current source control program is run in cooperation with the Monterey One Water Source Control Program and relies heavily on Monterey One Water ordinances and requirements. The City's current Municipal Code expressly incorporates all Monterey One Water regulations, including those related to requirements for source control and pretreatment requirements.

Monterey One Water's authority for the Source Control Program is derived from Ordinance 2008-1. The City of Salinas City Code Chapter 36 expressly requires that all users within the City comply with all Monterey One Water regulations.

- Sec. 36-12.2. Compliance with discharge requirements of Monterey One Water. All dischargers into the sanitary sewer shall comply with all the discharge requirements of Monterey One Water. (Ord. No. 2102 (NCS).)

- Section 36-1 acknowledges that the City's sanitary sewer collection system is tributary to the Monterey One Water treatment facility. It states that Monterey One Water implements a pretreatment program for its member jurisdictions (including the City of Salinas).

- Section 36-11 requires that all private sewage disposal system conform with the city plumbing code currently in effect.
- Section 36-12 requires that a City permit be issued for all connection to or use of the public sanitary sewer system.
- Sections 36-12.1 and 36-12.2 state that final approval for a sanitary sewer permit is contingent upon compliance with the requirements of Monterey One Water and that all dischargers into the sanitary sewer must comply with all discharge requirements of Monterey One Water.
- Section 36-16 requires that design and construction of building sewers conform to the requirements of the city plumbing code and the City Design Standards and Standard Specifications currently in effect at the time of installation. (Elsewhere in the City Code, the California Plumbing Code is adopted by reference.)

7.5 High Maintenance Problem Area Identification and Sewer Cleaning

The City has not experienced any sewer spills that resulted from pipeline obstructions or plugs due to any pipe blocking materials. Between 2010 and 2024, CIWQS records show the causes of three (3) sewer spills as follows:

- Pressure Relief Valve Failure (Force Main)
- Pump Station Controls
- Pump Station Controls

There are currently no high maintenance problem areas that require more frequent cleaning. City staff will continue to monitor the system in the event high frequency cleaning areas of the system are identified.

ELEMENT 8 SYSTEM EVALUATION, CAPACITY ASSURANCE, AND CAPITAL IMPROVEMENT PLAN

8.1 Regulatory Requirements

Attachment D 8 states:

The Plan must include procedures and activities for:

- Routine evaluation and assessment of system conditions;
- Capacity assessment and design criteria;
- Prioritization of corrective actions; and
- A capital improvement plan.

(a). **System Evaluation & Condition Assessment**: The Plan must include procedures to:

- Evaluate the sanitary sewer system assets utilizing the best practices and technologies available;
- Identify and justify the amount (percentage) of its system for its condition to be assessed each year;
- Prioritize the condition assessment of system areas that:
  - Hold a high level of environmental consequences if vulnerable to collapse, failure, blockage, capacity issues, or other system deficiencies;
  - Are located in or within the vicinity of surface waters, steep terrain, high groundwater elevations, and environmentally sensitive areas;
- Are within the vicinity of a receiving water with a bacterial-related impairment on
  the most current Clean Water Act section 303(d) List;
- Assess the system conditions using visual observations, video surveillance and/or other comparable system inspection methods;
- Utilize observations/evidence of system conditions that may contribute to exiting
  of sewage from the system which can reasonably be expected to discharge into
  a water of the State;
- Maintain documents and recordkeeping of system evaluation and condition assessment inspections and activities; and
- Identify system assets vulnerable to direct and indirect impacts of climate change, including but not limited to: sea level rise; flooding and/or erosion due to increased storm volumes, frequency, and/or intensity; wildfires; and increased power disruptions.

(b). **Capacity Assessment & Design Criteria**: The Plan must include procedures to

identify system components that are experiencing or contributing to spills caused by
hydraulic deficiency and/or limited capacity, including procedures to identify the appropriate hydraulic capacity of key system elements for:

- Dry-weather peak flow conditions that cause or contributes to spill events;
- The appropriate design storm(s) or wet weather events that causes or contributes to spill events;
- The capacity of key system components; and
- Identify the major sources that contribute to the peak flows associated with sewer spills.
- The capacity assessment must consider:
  - Data from existing system condition assessments, system inspections,
    system audits, spill history, and other available information;
  - 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;
  - Increases of erosive forces in canyons and streams near underground
    and above- ground system components due to larger and/or higher-
    intensity storm events;
  - Capacity of major system elements to accommodate dry weather peak
    flow conditions, and updated design storm and wet weather events; and
  - Necessary redundancy in pumping and storage capacities.

(c). **Prioritization of Corrective Action**: The findings of the condition assessments and
capacity assessments must be used to prioritize corrective actions. Prioritization must consider the severity of the consequences of potential spills.

(d). **Capital Improvement Plan**: The capital improvement plan must include the following items:

- Project schedules including completion dates for all portions of the capital improvement program;
- Internal and external project funding sources for each project; and
- Joint coordination between operation and maintenance staff, and engineering staff/consultants during planning, design, and construction of capital improvement projects; and Interagency coordination with other impacted utility agencies.

8.2 System Evaluation

Overview and Background

The City of Salinas IWTF is located south of the City adjacent to the Salinas River. It treats industrial wastewater discharges from industrial customers located in the southeastern part of the City. The industrial wastewater is conveyed from customer sites to the industrial treatment facility by the City's industrial sewer system. This chapter addresses the industrial sewer system.

The industrial sewer system is completely separate from the sanitary (domestic) sewer system. All sanitary (domestic) wastewater is collected in a separate sanitary sewer system and conveyed to the Monterey One Regional Treatment Plant (M1W RTP) located north of Marina CA. A separate Sanitary Sewer Management Plan addresses the sanitary sewer system.

The City has conducted several studies over the past years to evaluate capacity needs in the industrial sewer system. These studies include:

- "Relocation Feasibility Study for Industrial Wastewater Treatment Facility", prepared for City of Salinas by CDM, December 2001.
- "Industrial Wastewater Main Line Capacity Analysis", prepared for City of Salinas by C&D (Creegan & D'Angelo) Consulting Engineers, November 2003.
- "Recommended Capital Improvement Program for Industrial Wastewater Treatment Facility", prepared for City of Salinas by CDM, June 2004.
- "Industrial Wastewater System – Conceptual Approach for System Expansion", Summary Report prepared for City of Salinas by CDM, July 2008.
- "Industrial Waste Conveyance System Study", prepared for the City of Salinas by Wood Rodgers, December 2008.
- "Industrial Wastewater Capacity Analysis, prepared by Carollo Engineers, November 2022.

Existing Industrial Sewer System

The major industrial sewer conveyance system consists of approximately 38,600 feet of 12, 15, 18, 27, 33, 36 and 42-inch reinforced concrete and HDPE pipe. The pipeline system conveys industrial flows from the customer locations to the industrial wastewater plant.

The 27-inch pipe originates where Sanborn Road crosses over the railroad tracks, passes through a 60-foot-long inverted siphon at the Abbott Street and East Blanco Road intersection, and then continues downstream for about 1600 feet where it intersects the east 27-inch trunk line. From there, it continues for an additional 2600 feet before it enters the 36-inch pipeline near the intersection of East Blanco Road and La Mesa Way.

The 36-inch pipeline then drains to and through the former Salinas wastewater treatment plant site (TP1 site). At that point, it discharges into a new 42-inch HDPE pipeline that flows southerly to the IWTF.

Industrial Wastewater Flow Projections & Capacity Evaluation

The industrial customers are primarily food processing and related businesses. Many customers conduct fresh vegetable packing operations. Some customers provide related services such as manufactured ice, refrigerated warehousing, and corrugated and solid fiber boxes.

The industrial wastewater facility operates year-round. However, different from a sanitary sewer system, the industrial sewer flows are lower in the winter because some customers, particularly fresh vegetable packing and cooling facilities, move their operations to warmer southern locations. Approximately ½ of the industries remain open year- round.

The industrial system must be able to accommodate the flows during the high use periods, which occur during the summer peak growing/harvesting season. The treatment facility must be able to treat the average monthly flow during the high use periods and have peaking ability to accommodate the high day flows. The conveyance system from customers to the treatment facility must accommodate the high day (peak) flow.

A collection system model was developed to evaluate system capacity in the industrial waste system. The model assessed the conveyance capacity for the collection system and the impacts of future developments and land use changes.

InfoSWMM+, developed by Innovyze was selected as the new software platform for the City's updated hydraulic model. The hydraulic modeling engine for InfoSWMM+ uses the Environmental Protection Agency's (EPA's) Storm Water Management Model (SWMM), which is widely used throughout the world for planning, analysis, and design related to stormwater runoff, combined sewers, sanitary sewers, and other drainage systems. InfoSWMM+ routes flows through the model using the Dynamic Wave method, which solves the complete Saint Venant, one dimensional equations of fluid flow. The equation is based on mass conservation and momentum conservation principals.

The hydraulic model was developed from drawings, and previous reports on the IWWCS. The Influent Pump Station (IPS) and Airport Lift Station are included in the model with associated pump curves. Due to unknown conditions of existing pipelines, a conservative Manning's “n” factor of 0.013 was used for the evaluation of all existing collection system gravity pipelines and a Hazen Williams factor of 120 was used for the force mains.

The analysis involved identifying total capacity within the collection system and evaluating areas where pipe capacity is inadequate to convey peak flows (Monitored and Allotted) and could cause the pipeline to surcharge. For this analysis pipelines were assumed capacity deficient if they were modeled to surcharge under peak flow conditions. Collection systems that lack sufficient capacity create bottlenecks in the sewer and potentially contribute to sanitary sewer spills. The City's industrial waste system was evaluated with the hydraulic computer model, which provided a platform for effectively identifying and managing capacity deficiencies within the industrial waste system.

Industry standard practice is to require that sewage lift stations have sufficient capacity to pump peak flows with the largest pump out of service (firm capacity). Force main piping should be sized to provide a minimum velocity of 3 feet per second (fps) at the design flow rate of the lift station and no more than 6.5 fps. For the determination of head loss, the Hazen-Williams equation is used with a C-factor of 120, which is typical for collection system master planning purposes.

The 2022 Carollo Report concluded the following:

- Under existing conditions, the IWWCS gravity mains have capacity to convey industrial flow to the IWTF. Figure 2.2 shows the flow-depth-to-pipe-diameter (d/D) ratio. As shown, the d/D illustrates that the system has additional capacity under existing peak flow. The 27-inch diameter pipeline on Blanco Road, south of Abbot Street has a d/D of 0.51 and the 33-inch diameter pipeline upstream of TP-1 has a d/D of 0.56.

- The system has capacity to convey peak flow. A segment of 33-inch diameter pipeline upstream of TP-1 has a small gradient and reduces capacity within the system. Capacity within the system was considered to be deficient when the d/D exceeded 0.9 within the gravity system in the future.

- The Airport Lift Station is capacity deficient under existing peak flow. The existing capacity of this lift station is 1.04 mgd, however the existing system's peak flow potential is 3.89 mgd. The analysis recommends increasing the firm capacity to 4 mgd and total capacity to 6 mgd. The associated 14-inch diameter force main does not exceed the velocity criteria and is not considered to be capacity deficient.

- Under future peak flow conditions replacing approximately 900 feet (ft) of 33-inch diameter pipeline with 42-inch diameter pipeline. The project is located east of TP-1 within an open field. This segment of pipeline has a small inclination relative to upstream pipelines and is shown below:

8.3 Design Criteria

Chapter 36 “Industrial Waste, Wastewater Collection and Discharge” of the City’s Municipal Code specifies the requirements for discharge to the City’s industrial wastewater system. These requirements are applicable to existing and new customers of the industrial wastewater system.

Unlike the municipal sanitary sewer system, the peak flows for the industrial wastewater system occur during the summer peak growing season months. Winter rainfall (RDII) is not an issue for capacity of the IWWCS, as industrial wastewater flows are very low in the winter months. During the period with high industrial wastewater discharges, there is no or negligible rainfall.

The hydraulic criteria evaluated the pipes adequacy to handle the projected flows without surcharge, i.e., flowing full but no surcharge based on Manning’s equation. Those pipes without adequate capacity to meet the criteria have been identified for improvement.

The City’s Standard Specifications (current version) specify the requirements for sewer pipe materials, installation methods, and testing for new sewer improvements.

8.4 Schedule and Funding for Capacity Improvements

Immediate Needs to 2025

The City’s industrial wastewater system will require some improvements in order to meet estimated needs. The Industrial Lift Station located at the south end of Airport Boulevard near Hansen Street will require increased capacity to accommodate any additional flows upstream. However, the major industrial pipeline system has adequate capacity for estimated peak flows. Some system redundancy is provided by the Industrial Wastewater Diversion Project which consists of a bypass to the M1W sanitary sewer system installed at the TP1 site. M1W’s Salinas Area Pump Station (SAPS) is located at the TP1 site which conveys sanitary wastewater from the City to the RTP operated by M1W. The Industrial Wastewater Diversion Project was completed in 2016. This project also included construction of an emergency wastewater bypass system to allow mixed wastewaters to flow to the IWTF instead of to the Salinas River in the event of a catastrophic failure at the M1W Salinas Pump Station.

The design phase of the Airport lift station upgrade has been completed. The City plans to bid the project in 2025 with project completion anticipated in 2026.

Ultimate Needs

The improvements identified above for near-term implementation are sized to accommodate the anticipated buildout total instantaneous peak flows reaching the TP1 site and treatment facility.

Ultimately, the need for additional pipeline improvements would depend on future additions of industrial customers, and the City’s decisions in the near term on the appropriate location for

additional treatment capacity. This plan will be updated as needed consistent with future updates to any conceptual expansion plans.

The table below summarizes the timeframe and estimated capital costs for the conceptual improvements to provide additional capacity in the industrial wastewater system. These order of magnitude costs by timeframe are at a conceptual planning level and are based on previous studies. The costs will be updated and refined as part of subsequent detailed studies to refine and select specific improvement projects.

Industrial Waste System Capital Projects	
Item	***Estimated Capital Cost ($ Million, in 2018 dollars)***
Immediate Measures (by 2026)	
New Industrial Lift Station at Airport Boulevard	$2.26

The City currently funds the industrial wastewater system through a monthly user rate consisting of: a monthly service charge, total flow charge, and an average BOD charge. The rates cover operations and maintenance expenses, capital improvements and past debt service on any outstanding bonds that have been issued for capital improvements.

Capital improvements to provide capacity for future customers also benefit existing customers by improving the overall function of the IWWCS. the existing treatment facility. Potential funding methods to cover the costs of these capital improvements are identified below. The potential funding methods must be further evaluated to determine their applicability. While all the options are feasible, some may be more applicable or more desirable for the specific conditions. It is anticipated that a combination of options will be utilized.

As recommended in the conceptual expansion plan (CDM, 2008), the City is planning to conduct a detailed financing study to determine the preferred approach and appropriate methods for funding the required improvements for both pipeline conveyance and for treatment facility expansion. It is anticipated a combination of multiple funding sources will be used. Most of the methods are available only to municipalities or other government agencies; however, there are some that could be utilized by the individual industries.

Grant programs from the EDA Public Works and Economic Development Program, the State Water Resources Control Board and others are preferred funding sources for IWWCS upgrades. If grant funding proves to be unavailable other potential funding options may also include:

- User rates
- Connection fees

- Municipal bonds
- Special assessment districts
- Public/private partnerships
- California Infrastructure and Economic Development Bank: infrastructure state revolving fund program; industrial development bonds
- California State loans and grants: State Revolving Fund (SRF); direct state appropriations
- Federal grants and loans: EDA Public Works and Economic Development Program; direct federal appropriations

The schedule for implementation of future capacity improvements will depend on the available funding and the schedule for future additions and expansion of the IWWCS. As part of its annual budgeting and CIP process, City staff will refine the implementation schedule for specific projects.

8.5 Additional WDR Requirements

The City plans to conduct a Vulnerability Assessment to address the following WDR requirements:

- Prioritize the condition assessment of system areas that:
  - Hold a high level of environmental consequences if vulnerable to collapse, failure, blockage, capacity issues, or other system deficiencies;
  - Are located in or within the vicinity of surface waters, steep terrain, high groundwater elevations, and environmentally sensitive areas;
- Are within the vicinity of a receiving water with a bacterial-related impairment on the most current Clean Water Act section 303(d) List;
- Assess the system conditions using visual observations, video surveillance and/or other comparable system inspection methods;
- Utilize observations/evidence of system conditions that may contribute to exiting of sewage from the system which can reasonably be expected to discharge into a water of the State;
- Identify system assets vulnerable to direct and indirect impacts of climate change, including but not limited to: sea level rise; flooding and/or erosion due to increased storm volumes, frequency, and/or intensity; wildfires; and increased power disruptions.
- Outline how capacity assessment considers:
  - Data from existing system condition assessments, system inspections, system audits, spill history, and other available information;
  - 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;
  - Increases of erosive forces in canyons and streams near underground and above- ground system components due to larger and/or higher-intensity storm events;
- Capital Improvement Plan that includes:

- Project schedules including completion dates for all portions of the capital improvement program;
- Internal and external project funding sources for each project; and
- Joint coordination between operation and maintenance staff, and engineering staff/consultants during planning, design, and construction of capital improvement projects; and Interagency coordination with other impacted utility agencies.

The Vulnerability Assessment is planned for completion by 2027.

ELEMENT 9 - MONITORING, MEASUREMENT & PROGRAM MODIFICATIONS

The City monitors the implementation of the SSMP elements in order to measure the effectiveness of the City's IW SSMP in reducing sewer spills. The manner in which each SSMP element is monitored and evaluated and the schedule with which the City completes this monitoring and evaluation is described in this SSMP Element.

9.1 Regulatory Requirements

WDR Order No. 2022-0103-DWQ Section D 9 states:

The Plan must include an Adaptive Management section that addresses Plan-implementation effectiveness and the steps for necessary Plan improvement, including:

(a). Maintaining relevant information, including audit findings, to establish and prioritize appropriate Plan activities;

(b). Monitoring the implementation and measuring the effectiveness of each Plan Element;

(c). Assess the success of the preventative maintenance activities;

(d). Updating Plan procedures and activities, as appropriate, based on results of monitoring and performance evaluations; and

(e). Identifying and illustrating spill trends, including spill frequency, locations and estimated volumes.

9.2 Data Management

The City manages, schedules, and tracks preventative maintenance activities through a GIS based Computerized Maintenance and Management System. The system covers the following:

- Sewer Line Cleaning
- High Priority Area Cleaning and Inspections
- Manhole Inspections and Maintenance
- Lift Station Inspection and Maintenance
- Customer Complaints
- Work Orders
- CCTV Inspections

Triennial SSMP Audit Reports are maintained at the City's Wastewater Division office. Corrective actions from audit reports are generally addressed in updates of the City's IW SSMP or more immediate actions are completed in accordance with the recommended corrective action schedule in each triennial audit.

9.3 Establishing and Prioritizing SSMP Activities

Table 9-1 outlines the relevant information maintained by the City to establish and prioritize appropriate sewer collection system activities and the City staff who are responsible for monitoring implementation and measuring the effectiveness of each element, when appropriate.

Table 9-1: SSMP Implementation Management

SSMP Element	SSMP Relevant Information	Responsible Party
1. Goal	This SSMP Element contains the City's goals for the operation, maintenance, and management of the sanitary sewer collection system, which provide focus to reduce Spills and mitigate Spills that do occur.	Wastewater Division Manager
2. Organization	A table containing names, job titles, roles, responsibilities, and contact information is contained in this SSMP Element, which identifies the most knowledgeable person for each aspect of the SSMP Program. An organizational chart identifies the lines of authority.	Wastewater Division Manager
3. Legal Authority	Web links in this SSMP Element contain the sections of City Policies and Ordinances governing the sewer collection and conveyance system.	Wastewater Division Manager and City Legal Counsel
4. Operation and Maintenance Program	Information in this SSMP Element document the sanitary sewer system operation and maintenance activities.	Wastewater Division Manager
5. Design and Performance Provisions	City website links in this SSMP Element include City Design Standards and Specifications that include Testing requirements.	Wastewater Division Manager and Engineering Staff
6. Spill Emergency Response Plan	The City updated a Spill Emergency Response Plan in 2023 which include staff contact information, mandatory Spill reporting information, and response and mitigation programs.	Wastewater Division Manager
7. Pipe Blockage Control Program	Not Applicable	Wastewater Division Manager
8. System Evaluation, Capacity Assurance, and Capital Improvement Plan	The City will review and update this SSMP Element as applicable to include any hydraulic capacity analysis completed and the status and sources of funding for associated projects.	Wastewater Division Manager and Engineering Staff
9. Monitoring, Measurement, and Program Modifications	This SSMP Element will be updated annually with the number of Spills that occur and their causes in a calendar year.	Wastewater Division Manager
10. SSMP Program Audits	SSMP Audit Reports are required triennially. Corrective actions are implemented and tracked.	Wastewater Division Manager
11. Communication Program	Examples of public outreach materials and pertinent City website links provided, as well as meeting agendas, pertinent City Council reports and minutes are found on the City's website and City offices.	Wastewater Division Manager

9.4 Preventative Maintenance Program Assessment

The City's Preventative Maintenance Program includes CCTV inspection, line cleaning, visual manhole inspection, lift station maintenance, and High Priority Area identification and maintenance. The City will review these operation and maintenance practices annually and compare them with annual Spill records. A summary of the performance metrics identified in Table 9-2 will be developed annually.

Table 9-2: Sanitary System Performance Metrics for Monitoring and Measurement

	Performance Measure	Source
System Statistics	Total miles of gravity sewer	Atlas Maps
	Total miles of pressure sewer	Atlas Maps
	Total number of manholes	Atlas Maps
	Total number of sewer lift stations	Atlas Maps
Operations and Maintenance	Linear feet of sewer line cleaned	CMMS/GIS & Work Order Requests or Staff Field Notes
	Linear feet of high priority lines cleaned	CMMS/GIS & Work Order Requests or Staff Field Notes
	Number of blockages/backups not resulting in sewer spill	CMMS/GIS & Work Order Requests or Staff Field Notes
	Linear feet of CCTV	CMMS/GIS & Work Order Requests or Staff Field Notes
	Number of manholes inspected	CMMS/GIS & Work Order Requests or Staff Field Notes
	Lift station inspections	CMMS/GIS & Work Order Requests or Staff Field Notes
	Root control linear feet	CMMS/GIS & Work Order Requests or Staff Field Notes
Measures Based on Sewer Spill Numbers	Number and percentage of dry weather vs. wet weather spills	CIWQS
	Number of spills by cause (operational, capacity, system, other)	CIWQS

	Performance Measure	Source
	Number of spills per 100 miles per Year	CIWQS
	Total volume of spills	CIWQS
	Average spill volume	CIWQS
	Total volume recovered and percentage of overall total spill volume	CIWQS
	Net volume of spills (total minus recovered) and percentage of overall total spill volume	CIWQS
	Total volume reaching storm drainage channel and not recovered or reaching surface waters and percentage of overall total Spill volume.	CIWQS
Spill Response Time	Average response time during business hours	CIWQS
	Average response time outside of business hours.	CIWQS
Condition Assessment, Rehabilitation, and I/I Control	Amount of CCTV inspection performed (linear feet)	CCTV Reports
	Number of manholes inspected	CMMS/GIS & Work Order Requests or Staff Field Notes
	Number of inflow sources detected and corrected.	CMMS/GIS & Work Order Requests or Staff Field Notes
Capital Projects	Summary of short- and long-term projects, sources of funding and status of each project.	Capital Projects Schedule
Outreach	Pipe Blockage Control Program summary of outreach efforts.	City Outreach
Goals	Summary of how goals are being met and areas of improvement where goals have not been achieved.	Element 1 Goals and Supporting data to demonstrate performance.
Training	Summary of training to meet Element 4 training requirements and other City training programs.	

9.5 SSMP Updates

The City will use the IW SSMP for management, training, planning and regular maintenance of the collection system. As the document is utilized, any deficiencies or discrepancies will be corrected. Program elements will be updated based on performance evaluations, organizational, operational, and maintenance changes, new regulatory requirements, repairs, replacements, and upgrades made to the collection system.

At a minimum, the City will review and revise the SSMP annually as warranted. The Wastewater Division Manager is responsible for revising and maintaining the SSMP.

A revision record will be maintained to track changes.

9.6 Sewer Spill Trends

The trends in the City Sewer Spills for a three-year period utilizing the criteria in Table 9-3. The cause categories identified in Table 9-3 are the causes available for use in the Sewer Spill Report provided in California Integrated Water Quality System (CIWQS). City Staff are responsible for determining which cause category is appropriate for each Spill when the Spill is reported in CIWQS.

Table 9-3 City of Salinas per Indicator per Year

Indicator	
Spills	No. of Spills
Multiple Spills at Same Location	# of Locations with Multiple Spills
Spill Volume (gal)	Volume
	Volume Recovered
	Volume Reached Surface Water
Spill Causes	Debris - Construction
	Debris – General
	Debris – Rags
	Flow Exceeded Capacity
	FOG
	Operator Error
	Other

Indicator	
	Pipe Structural Problem/Failure
	Pump Station Failure
	Rainfall Exceeded Design
	Root Intrusion
	Vandalism
Comparison with Regional and State Averages	Average Spill Volume
	Average # of Spills

The City will continue to plan and adjust operation and maintenance practices so that the number of Spills experienced on an annual basis remains low.

ELEMENT 10 - SEWER SYSTEM MANAGEMENT PLAN PROGRAM AUDITS

SSMP audits are required to identify and correct deficiencies in the most current revision of the City's SSMP and provide a schedule to correct identified deficiencies. This SSMP Element outlines the audit process and identifies staff responsible for conducting or participating in SSMP audits and generating the required SSMP Audit Report.

10.1 Regulatory Requirements

WDR Order No. 2022-0103-DWQ Section D 10 requires:

The Plan shall include internal audit procedures, appropriate to the size and performance of the system. Additionally, the General Order requires;

The internal audit shall be appropriately scaled to the size of the system(s) and the number of spills. The Enrollee's sewer system operators must be involved in completing the audit. At minimum, the audit must:

- Evaluate the implementation and effectiveness of the Enrollee's Sewer System Management Plan in preventing spills;
- Evaluate the Enrollee's compliance with this General Order;
- Identify Sewer System Management Plan deficiencies in addressing ongoing spills and discharges to waters of the State; and
- Identify necessary modifications to the Sewer System Management Plan to correct deficiencies.

The Enrollee shall submit a complete audit report that includes:

- Audit findings and recommended corrective actions;
- A statement that sewer system operators' input on the audit findings has been considered; and
- A proposed schedule for the Enrollee to address the identified deficiencies.

10.2 SSMP Program Audits

The Wastewater Manager (LRO) or their designee is responsible for assuring the SSMP audit is conducted and complete based on the schedule outlined on the SWRCB lookup website continuously on a three-year interval. Audits should be conducted with the cooperation of the City staff responsible for sewer system operations and maintenance, administrative staff, and engineering staff.

When conducting the SSMP Audit, City Staff must evaluate the effectiveness of each SSMP Element. A comprehensive, effective review of the City's SSMP must be documented in a SSMP Audit Report.

10.2.1 Summary of Procedure:

1. Gather appropriate SSMP supporting documents.

2. Interview City staff responsible for the administration, operations, maintenance and engineering associated with system performance information.

3. Develop Audit Report and reference all documents reviewed and used as evidence of compliance with the WDR. Create a plan and schedule for updates to the SSMP based on changes in operational strategies or deficiencies found in the SSMP.

4. Evaluate the effectiveness of the City's SSMP and compliance with each WDR requirement using the ranking methodology outlined in Table 10-1.Table 10-1: SSMP Audit Ranking Criteria

Table 10-2: SSMP Audit Ranking Criteria

Ranking	Ranking Basis
In Compliance	All requirements specified in the element are met.
Substantial Compliance	The majority of requirements in the element are met.
Partial Compliance	Half of the requirements in the element are met.
Marginal Compliance	Less than half of the requirements in the element are met.
Out of Compliance	None of the requirements in the element are met.

The next SSMP Audit Report must be signed and certified by the LRO.

The SSMP Audit Report must be signed and certified using the language provided below:

> "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Subsequent SSMP audits must be conducted continuously on a three-year interval following the schedule outlined below which is based on the dates required by the 2022 WDR:

- SSMP Audit Period: May 2, 2024 - May 2, 2027 (Audit report due 11/2/27)
- SSMP Update: Update due 5/2/31.

Additional SSMP audit and SSMP update regulatory schedules required after the dates shown above should be identified in the following link:
https://www.waterboards.ca.gov/water_issues/programs/sso/lookup/

To assist in the audit process, the City should consider quarterly or semiannual reviews and revisions to specific SSMP Elements and associated supporting documents. These reviews and

revisions will help ensure current operational practices and procedures are reflected in the SSMP and documentation of these activities is readily available during an audit by the Regional Water Quality Control Board, and/or State Water Resources Control Board.

SSMP Audit Reports must be kept on file and submitted to the online CIWQS Sanitary Sewer Database within six (6) months after the end of the 3-year audit period.

ELEMENT 11 - COMMUNICATION PROGRAM

Communicating the objectives of the SSMP and the importance of sanitary sewer system management practices to the public is essential. An informed public can assist and support the City by reducing customer caused blockages, which will potentially decrease sewer spills.

11.1 Regulatory Requirements

WDR Order No. 2022-0103-DWQ Section D 11 states:

The Plan must include procedures for the Enrollee to 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 its 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 Program

The purpose of the City IW sewer system communication program is to educate stakeholders, which are industrial users of the collection system, about the SSMP. The following are activities that the City practices to increase awareness and education about the importance of having a properly constructed, maintained, and operated collection system as new information is available.

The City communicates with industrial users utilizing the following methods:

- Industrial Waste Discharge Program Inspections
  - City staff conducts regular inspections for each industrial user to evaluate the effectiveness of their wastewater pretreatment systems, adherence to individual facility wastewater discharge permits, and to discuss any potential issues within the industrial waste system.

- City Website
  - Provides information on the IW Sewer System and includes copies of the current IW SSMP. Information is posted on the City website, **www.cityofsalinas.org** and includes links, City meeting minutes and agendas, flyers, education material and public service announcements.

- City Council Meetings
  - City Council Meetings are held every other Tuesday twice each month at the City Office. Utility sewer operation, Sewer Spill Reports, SSMP updates, significant revisions, audits and SSMP status reports are presented at the Council meetings to receive input.

- City Office
  - The City Office has copies of educational material, public service announcements, and staff that provide assistance and education to the public. Office hours are Monday- Friday from 8:00am to 5:00pm.
- Sewer Spills
  - The City posts sewer spills in impacted public areas where closures may be appropriate and has identified potential sources of drinking water that may be impacted by a sewer spill. Contact information for operators of these drinking water sources are on file at the City Wastewater Division office.

11.3 Satellite and Tributary Systems

The City has not identified any tributary or satellite systems for the Industrial System.

Appendix 0A Placeholder – Meeting Minutes Adopting 2025 SSMP, Revision 2

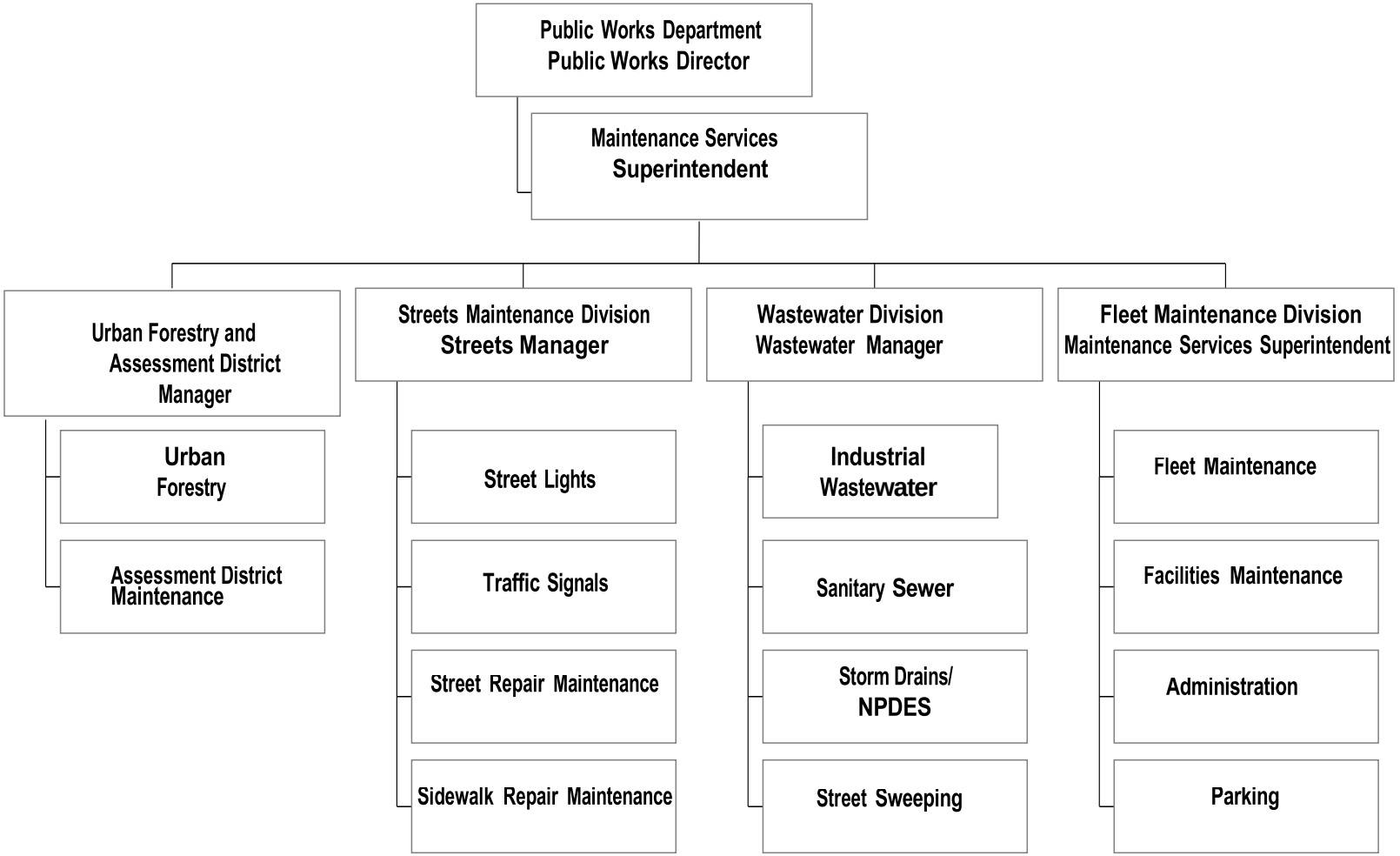
Appendix 2A Cover Sheet – City Organization Chart

City of Salinas

Maintenance Services Department Organization Chart

426 Work Street, Salinas, Ca. 93901

Administration: (831) 758-7233



Appendix 2B Cover Sheet – City Organization Chart Contact Information

PUBLIC WORKS ORGANIZATION CHART
Persons Responsible for SSMP Implementation

Maintenance Services -Wastewater Division

WASTEWATER PUBLIC WORKS DEPARTMENT

Environmental and Maintenance Services Superintendent
VACANT
(831) 758-7274

Wastewater Manager – LRO
GARY GABRIEL – LRO DESIGNEE
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Wastewater Crew Supervisor-LRO
RAY LERMA- LRO DESIGNEE
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Wastewater Crew
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VINCENT DAVI PSMW I
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City Engineer
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Senior Civil Engineer – Water, Waste, and Energy
VACANT
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Environmental Compliance (FOG)
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ENVIRONMENT COMPLIANCE INSPECTOR I
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ERIK BAUTISTA
ENVIRONMENT COMPLIANCE INSPECTOR II
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ERIC RULOPH WASTEWATER OPERATOR
(831) 837-8606 ericr@ci.salinas.ca.us

Appendix 4A Placeholder

- Industrial System CCTV Analysis
- Sewer Cleaning Schedule
- CIP List, Budget & Schedule