



Interim 2025 Sewer System Management Plan Update (SSMP)

Prepared to Maintain Compliance with State Water Resources Control Board Order No.
WQ 2022-0103-DWQ Pending Completion of the City's Comprehensive SSMP and Sewer
System Evaluation Program

Sanitary Sewer Collection System

Waste Discharge ID (WDID): # 4SSO10421

REVIEWED AND APPROVED BY:

GERALDINE TRIVEDI, P.E.
Legally Responsible Official

City of Redondo Beach
Sanitary Sewer Collection System
(Element Development Plans & Schedules)

PREPARED BY:



Date Signed

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Introduction

This Sewer System Management Plan (SSMP) Update or “Plan” has been prepared for the CITY (City) with technical assistance from Fischer Compliance LLC for meeting and exceeding compliance with the State Water Resources Control Board’s 2022 General Waste Discharge Requirements, Order WQ 2022-0103-DWQ for Sanitary Sewer Systems (referred to throughout this document as the WDR). The City provided all details, information and institutional insights for preparation of the SSMP. The document has been developed to meet the size, scale, and complexity, serving as a “living document” used as a tool for managing and operating the City’s sanitary sewer collection system. Additionally, the latest 2024 Sewer System Management Plan Guidance Manual published by the Bay Area Clean Water City (BACWA) was utilized as a model for development of the document to harmonize formatting/content and incorporate recommended suggested guidance wherever possible.

The City’s commitment to meeting or exceeding regulatory requirements, along with their proactive approach to operation and management of the collection system, has served them well, as evidenced by system performance relative to other agencies in the region and the state.

This Interim SSMP Update reflects the ongoing day-to-day activities of the City for the management, operation, maintenance, and funding of the City’s sanitary collection system. It is subject to review and revision as system conditions, regulatory requirements, operational needs, and supporting technical information change. The City has also initiated a separate comprehensive sewer system evaluation and long-range planning effort, which will include CCTV, condition assessment, hydraulic modeling, capacity evaluation, O&M review, and capital improvement planning. Findings from that effort will be incorporated into future SSMP updates, amendments, or implementation documents, as appropriate.

The City submitted interim compliance documentation into CIWQS on August 4, 2025, as an interim update pending City Council adoption in order to meet applicable regulatory deadlines. Following City Council adoption, the City will upload the City Council-adopted version of the Interim 2025 SSMP Update into CIWQS and make it available for public review in accordance with the Order.

Figure 1 below (Collection System Operational Report in CIWQS) provides key City spill metrics, including data comparing the City’s spill record with state and regional system data. The City consistently performs better than the statewide and regional spill rate indices and net spill volumes for all categories of spills from its sanitary sewer collection system.

Please see the [Glossary of Terms](#) for explanations of the search results column headings. [More information about the report is found at the bottom of this page.](#)

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SEARCH CRITERIA: [\[REFINE SEARCH\]](#) [\[NEW SEARCH\]](#) [\[GLOSSARY\]](#)
 Date Range: Start_Date (01/01/2010) End_Date (08/02/2025)

DRILLDOWN HISTORY: [\[GO BACK TO LISTING OF COLLECTION SYSTEMS\]](#)
 Redondo Beach City CS
Agency: Redondo Beach City

General Information [-] [+]

Region	Place ID	Place Name	CS Category	Place Address	Place County
4	631222	Redondo Beach City CS	Municipal(Public)	415 Diamond Redondo Beach CA 90277	Los Angeles

Collection System Spill Summary [-]

Operational Indices: Redondo Beach City CS

Spill Rate Indice (spills/100mi/yr)							
	Category 1			Category 2		Category 3	
	Main System	Laterals	Other	Main System	Other	Main System	Other
Redondo Beach City CS	0.51	N/A	0.0	0.17	0.0	2.03	0.0
State Municipal(Public) Average	1.43	N/A	0.42	0.53	0.46	2.69	0.52
Region Municipal Average	1.03	N/A	0.32	0.31	0.06	1.22	0.42

Net Volume Spills Indice (gallons/1000 Capita/yr)							
	Category 1			Category 2		Category 3	
	Main System	Laterals	Other	Main System	Other	Main System	Other
Redondo Beach City CS	2.28	N/A	0.0	0.0	0.0	0.12	0.0
State Municipal(Public) Average	1512.21	N/A	3106.45	227.38	2923.53	26.61	7.76
Region Municipal Average	3017.33	N/A	53.73	32.47	3.68	6.6	0.42

Figure 1 - Collection System Operational Report – [SWRCB CIWQS](#)

SSMP Organization

This SSMP Update is organized into 11 core elements following Attachment D of the WDR, with inclusion of applicable Specifications requirements.

Each updated individual element in the SSMP Update includes the following technical contents, if applicable.

1. Requirements – Provides the actual description of applicable requirements in the WDR.
2. Compliance – Describes the City’s approach to complying with the WDR requirements.
3. Effectiveness – As measured by Key Performance Indicators.
4. Implementation – Demonstrates how the City will ensure the SSMP will be carried out as described.
5. Resilience – Demonstrates the resilience that is addressed in the SSMP and built-in to the City’s collection system and procedures.
6. Appendix Inclusions – List the items included in the Appendix for each SSMP Element, if any, to be added in the final SSMP.

Abbreviations and Acronyms¹

BMP	Best Management Practices
CCTV	Closed Circuit Television
CIP	Capital Improvement Program
CIPP	Cured in Place Pipe
CIWQS	California Integrated Water Quality System (State Water Board Online Spill Database)
CMMS	Computerized Maintenance Management System
EPA	US Environmental Protection Agency
FOG	Fats, Oils and Grease
FSE	Food Service Establishment
GCD	Grease Control Device
GIS	Geographic Information System
I & I	Inflow and Infiltration
LRO	Legally Responsible Official
MRP	Monitoring and Reporting Program
NPDES	National Pollutant Discharge Elimination System
RWQCB	Regional Water Quality Control Board
SCADA	Supervisory Control and Data Acquisition
SERP	Spill Emergency Response Plan
SOP	Standard Operating Procedure
SSMP	Sewer System Management Plan
Spill	Sanitary Sewer Spill
WDR	Sanitary Sewer Systems General Wastewater Discharge Requirements Order issued by the State Water Board (<u>Order No. 2022-0103-DWQ</u>)
SWRCB	State Water Resources Control Board
WDID	Waste Discharge ID Number (CIWQS)

Table 1 - Abbreviations and Acronyms

¹ For a list of related WDR terms, see the [CIWQS Glossary](#).

1. Goal and Introduction

WDR REQUIREMENTS

[Att. D-1 \(pg. D-2\)](#)

“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.

The Plan must include a narrative Introduction section that discusses the following items:”

1.1. Regulatory Context

WDR REQUIREMENTS

[Att. D-1.1 \(pg. D-2\)](#)

“The Plan Introduction section must provide a general description of the local sewer system management program and discuss Plan implementation and updates”.

COMPLIANCE

The City maintains the local sanitary sewer system and is committed to protecting the public’s health and the environment. Federal and State Water Quality regulations require agencies to maintain a comprehensive Sewer System Management Plan (SSMP) with the goal of preventing sewage spills.

The City is committed to fully implementing the [2022 WDR](#) which includes addressing all requirements by integrating a wide range of programs specifically designed for ensuring the integrity and efficiency of the City’s sanitary sewer collection system. Moreover, the City is dedicated to maintaining its collection system in a systematic manner by implementing various work programs, with a focus on critical areas, to prevent spills, allowing for a comprehensive approach to maintenance. Work programs include CCTV inspections, pipe cleaning, manhole inspections, lift station maintenance, root control, source control and pipe repair, just to name a few. Work programs are described in more detail in Section 4.5 “Specifications 5.19 - Operation and Maintenance” of this SSMP Update.

The City recognizes that additional technical evaluation and long-range planning efforts are necessary to further support implementation of the SSMP. Accordingly, the City has initiated a comprehensive sewer system evaluation program that includes CCTV, hydraulic modeling, risk-based condition assessment, operations and maintenance evaluation, flow monitoring, pump station assessment, SCADA review, and development of a prioritized 5-, 10-, and 20-year Capital Improvement Program. Results from these efforts will be incorporated into future SSMP updates and implementation activities.

By prioritizing proactive measures and taking a comprehensive approach, the City is well-equipped with a proven track record of effectively operating its sanitary sewer collection system with the highest levels of service, complying with the WDR, and reducing/eliminating sewage spills.

1.2. SSMP Update Schedule

WDR REQUIREMENTS

[Att. D-1.2 \(pg. D-3\)](#)

“The Plan Introduction section must include a schedule for the Enrollee to update the Plan, including the schedule for conducting internal audits. The schedule must include milestones for incorporation of activities addressing prevention of sewer spills.”

COMPLIANCE

The City utilizes the [State Water Board’s online lookup tool](#) to ensure compliance with all required due dates for updating its SSMP and completing its required SSMP Audits.

The City’s most recent SSMP audit was completed for the period August 2021 through August 2024 (see Appendix 10.1).

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Are SSMP Updates being performed as scheduled?
- Has the SSMP been approved by the City Council on the required schedule?
- Are specific internally established sewer program milestones being monitored?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
1.2.1	Prepare for next SSMP Audit	Begin 5/2/2027	X	X	X
1.2.2	Complete and Upload SSMP audit.	By 11/2/2027	X	X	
1.2.3	Incorporate Audit Findings, update Change Log and Update SSMP	5/2/2025		X	
1.2.4	Draft 2025 Interim Compliance SSMP Update Submitted to CIWQS	8/4/2025	X	X	
1.2.5	Council Approval for 2025 Interim Compliance SSMP Update	By 6/30/2026	X	X	
1.2.6	Council Approval and LRO Certification of SSMP	By 8/2/2031	X	X	

1.3. Sewer System Asset Overview

WDR REQUIREMENTS

[Att. D-1.3 \(pg. D-3\)](#)

“The Plan Introduction section must provide a description of the Enrollee-owned assets and service area, including but not limited to:

- *Location, including county(ies);*
 - *Service area boundary;*
 - *Population and community served;*
 - *System size, including total length in miles, length of gravity mainlines, length of pressurized (force) mains, and number of pump stations and siphons;*
 - *Structures diverting stormwater to the sewer system;*
 - *Data management systems;*
 - *Sewer system ownership and operation responsibilities between Enrollee and private entities for upper and lower sewer laterals;*
 - *Estimated number or percentage of residential, commercial, and industrial service connections; and*
 - *Unique service boundary conditions and challenge(s).*
- Additionally, the Plan Introduction section must provide reference to the Enrollee’s up-to-date map of its sanitary sewer system, as required in section 4.1 (Updated Map of Sanitary Sewer System) of this Attachment.”*

COMPLIANCE

The City is located in Los Angeles county and provides wastewater collection services to the City of Redondo Beach (see Figure 3, Vicinity Map of sewer system below), with an approximate (total population of 69,000. The City collection system consists of 112 miles of gravity mains, 2 miles of force mains, 14 pump stations and 6 siphons.

Unique challenges include the following:

- Periodic inflow and infiltration from tidal flows into sewers.
- Cleaning sewers in the City’s boardwalk approximately 6 times per year, including cleanings during most major holidays.
- Some sewers and easements present maintenance challenges due to restricted access. All portions of these facilities can be maintained, but the effort to do so is time-consuming, requiring additional staff and cooperation and pre-planned coordination with property owners.
- Boundary conditions and shared sewers maintained and serviced with adjacent cities.

The collection system has several low flow stormwater diversion structures installed and operated during dry weather (closed during wet weather). For additional details about the City’s collection system, see the City’s most current [Annual Report in the CIWQS database](#).

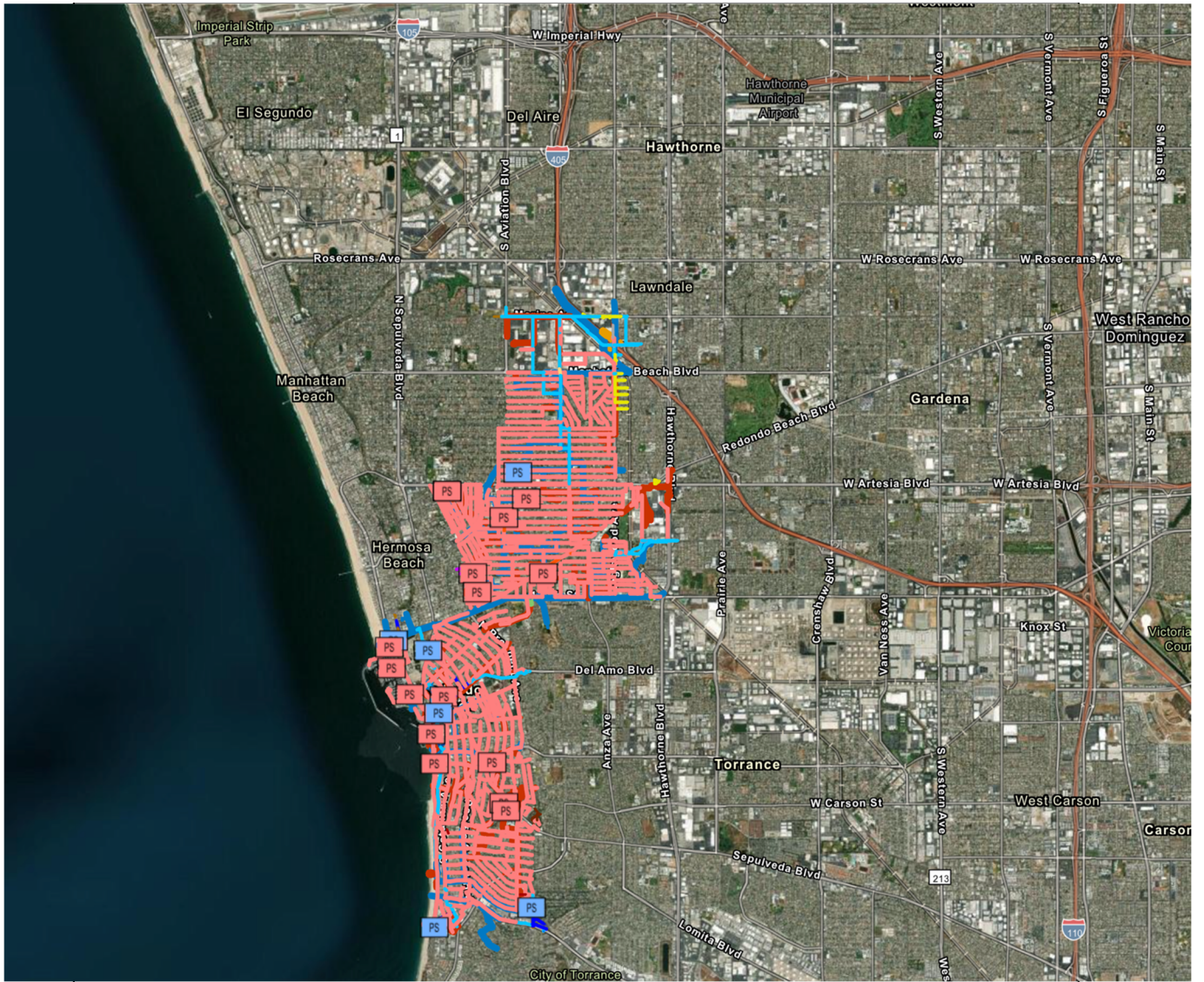


Figure 2 - City Vicinity Map and Sewer Service Area, [available online](#)

The City utilizes multiple data management system to operate and maintain its sanitary sewer collection system: (1) iWater Computerized Maintenance Management System (CMMS) for tracking work orders, maintenance activities, and equipment records; (2) Geographic Information System (GIS) for maintaining up-to-date system maps and asset inventory; (3) SCADA (Supervisory Control and Data Acquisition) for real-time monitoring and control of pump stations; and (4) SmartCover sensors at 47 sewer locations for level and flow monitoring. Laterals are owned and maintained by the private property owners. Overall, the City is in a good position to maintain its collection system and does not have operation and maintenance challenges due the service area.

The City continues to maintain its up to date data system maps.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Are asset statistics periodically reviewed and updated as necessary?
- Are omissions or errors addressed in a timely manner?
- Are system maps up to date?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
1.3.1	Review City-owned asset statistics and element description; update as necessary	At the beginning of the audit cycle and when significant changes have been made.		X	X

RESILIENCE

Resilience is addressed in Element 1 by:

- Adhering to an SOP for collecting and managing asset data.
- Redundancy: More than one member of staff is trained and able to retrieve and manage the data.
- Implementing a QA/QC process to help ensure information is accurate.
- Using Calendar Reminders to ensure compliance deadlines are met.

APPENDIX 1 INCLUSIONS:

1.1. City Council Adoption of Updated 2025 SSMP

The Interim 2025 SSMP Update is adopted for purposes of maintaining compliance with Order No. WQ 2022-0103-DWQ pending completion of the City’s comprehensive sewer system evaluation and long-range wastewater infrastructure planning effort.

Specifications 5.2 – SSMP Development and Implementation

WDR REQUIREMENTS

[Specification. 5.2 \(pg. 18\)](#)

“To facilitate adequate local funding and management of its sanitary sewer system(s), the Enrollee shall develop and implement an updated Sewer System Management Plan. The scale and complexity of the Sewer System Management Plan, and specific elements of the Plan, must match the size, scale, and complexity of the Enrollee’s sanitary sewer system(s). The Sewer System Management Plan must address, at minimum, the required Plan elements in Attachment D (Sewer System Management Plan – Required Elements) of this General Order. To be effective, the Sewer System Management Plan must include procedures for the management, operation, and maintenance of the sanitary sewer system(s). The procedures must: (1) incorporate the prioritization of system repairs and maintenance to proactively prevent spills, and (2) address the implementation of current standard industry practices through available equipment, technologies, and strategies.”

COMPLIANCE

This SSMP Update has been completed updated to meet the requirements of Order WQ 2022-0103-DWQ and address all required Elements and Specifications required by the Order. The SSMP addresses management, operations and maintenance procedures specific to the City’s collection system. The City continues to maintain and enhance its proactive O&M program to operate its system and identify defects, which are then prioritized for repair, replacement, rehabilitation, or placed on modified maintenance schedules.

The City continues to keep up with current industry standards, technology and best practices by reviewing industry periodicals, networking and attending industry conferences and workshops. The City also continuously evaluates emerging practices, equipment and technologies for possible implementation to enhance operations.

Specifications 5.7 – Allocation of Resources

WDR REQUIREMENTS

Specification. 5.7 (pg. 22)

“The Enrollee shall comply with the following requirements:

- *Establish and maintain a means to manage all necessary revenues and expenditures related to the sanitary sewer system; and*
- *Allocate the necessary resources to its sewer system management program for:*
 - *Compliance with this General Order,*
 - *Full implementation of its updated Sewer System Management Plan,*
 - *System operation, maintenance, and repair, and*
 - *Spill responses.”*

COMPLIANCE

The City maintains various revenue sources to maintain financial stability, meet its operational needs and manage all necessary expenditures to operate its sewer system. The City equipment inventory and staffing levels are adequate to effectively implement this SSMP, properly manage the collection system, and respond to emergencies.

Provisions 6.1 - Enforcement Provisions

WDR REQUIREMENTS

Provisions 6.1 (pg. 27)

“The following enforcement provisions are based on existing federal and state regulations, laws and policies, including the federal Clean Water Act, the state Water Code and the State Water Board Enforcement Policy.”

COMPLIANCE

The City is aware of the consequences for noncompliance including associated penalties for violations. The City maintains a proactive stance with full implementation of its SSMP.

Noncompliance with requirements of this General Order or discharging sewage without enrolling in this General Order constitutes a violation of the Water Code and a potential violation of the Clean Water Act and is grounds for an enforcement action by the State Water Board or the applicable Regional Water Board. Failure to comply with the notification, monitoring, inspection, entry, reporting, and recordkeeping requirements may subject the City to administrative civil liabilities of up to \$10,000 a day per violation pursuant to Water Code section 13385; up to \$1,000 a day per violation pursuant to Water Code section 13268; or referral to the Attorney General for judicial civil enforcement. Discharging waste not in compliance with the requirements of this General Order or the Clean Water Act may subject the City to administrative civil liabilities up to \$10,000 a day per violation and additional liability up to \$10 per gallon of discharge not cleaned up after the first 1,000 gallons of discharge; up to \$5,000 a day per violation pursuant to Water Code section 13350 or up to \$20 per gallon of waste discharged; or referral to the Attorney General for judicial civil enforcement.

Provisions 6.3 Sewer System Management Plan Availability

WDR REQUIREMENTS

[Provisions 6.3 \(pg. 31\)](#)

“The Enrollee’s updated Sewer System Management Plan must be maintained for public inspection at the Enrollee’s offices and facilities and must be available to the public through CIWQS and/or on the Enrollee’s website, in accordance with section 3.8 (Sewer System Management Plan Reporting Requirements) of Attachment E1 (Notification, Monitoring, Reporting and Recordkeeping Requirements) of this General Order.”

COMPLIANCE

After finalizing the SSMP Update and obtaining City Council approval, the City will upload the final document to the CIWQS database and will publish this document on the City website. In addition, the SSMP is available for public review at City offices, by appointment, during regular business hours.

2. Organization

WDR REQUIREMENTS

[Att. D-2 \(pg. D-3\)](#)

“The Plan must identify organizational staffing responsible and integral for implementing the local Sewer System Management Plan through an organization chart or similar narrative documentation that includes:

- The name of the Legally Responsible Official as required in section 5.1 (Designation of a Legally Responsible Official) of this General Order;
- The position titles, telephone numbers, and email addresses for management, administrative, and maintenance positions responsible for implementing specific Sewer System Management Plan Element;
- Organizational lines of authority; and
- 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 City, and State Office of emergency Services.)

COMPLIANCE

The above items are addressed below:

City’s Legally Responsible Officials (LRO) are listed below:

- **Geraldine Trivedi, P.E. (Civil Engineer)**

The City’s LRO meets the requirements set forth in Specifications 5.1 of the WDR.

The City Departments with primary responsibility for the SSMP are the Engineering & Building Department and the Public Works Department. Table 3 below identifies the position within these departments with corresponding SSMP activity and responsibility. The responsibilities included are “O” (Oversees), “P” (Participates), “D” (Develop & Update), and “I” (Implements). Specific SSMP responsibilities for the core WDR requirements are presented in Table 4 below with direct responsible contact information for the SSMP presented in Table 5. Table 6 below summarizes appropriate SSMP organizational staffing responsibilities for the City.

SSMP Activity	City Engineer	Director Public Works	Engineering & Building Staff	Public Works Staff
Goals	O	P	D	P
Organization	O	P	D	P
Legal Authority	O	P	D	P
Modifications to Municipal Codes	O	P	D	P
Operation and Maintenance Program				
Maintaining Map of System in GIS	O		D	P
Preventative Maintenance Plan	P	O	P	D/I
Areas of Interest Management		O		D/I
Areas of Interest Investigations	O	P	I	I/P
Routine CCTV Inspections		O		I
Design and Performance Provisions				
Standards for Inspection & Testing	O		D/I	
Standards for New Sewers System Components	O		D/I	
Standards for Rehabilitation & Repairs	O		D/I	
Construction Standards & Specifications	O		D/I	
Overflow Emergency Response Plan	P	O	D	D/I
Fats, Oils and Grease Program	O	P	D/I	I/P
Inspections	O		D/I	
Enforcement	O		D/I	P
Public Education & Outreach	O	P	D/I	P
System Evaluation and Capacity Assurance Plan				
CIP	O	P	D/I	P
Funding Plan & Rate Structure	O	P	D/I	P
Evaluation of System Hydraulic Capacity	O		D	
Evaluation of System Condition (CCTV)	O	P	D/I	P
Monitoring, Measurement and Program Modifications	O	O	D/I	D/I
SSMP Program Audits	O	P	P	P
Communications	O	P	D/I	P

Table 2 - City SSMP Activity Reference Table

IMPLEMENTATION RESPONSIBILITIES

Sewer System Management Plan Elements	Responsible Position
1. SSMP Plan, Goal and Introduction	<i>Engineering Dept.</i>
1.1. Regulatory Context	<i>Engineering Dept.</i>
1.2. SSMP Update Schedule	<i>Engineering Dept.</i>
1.3. Sewer System Asset Overview	<i>Engineering Dept.</i>
2. Organization	<i>Engineering Dept.</i>
3. Legal Authority	<i>Engineering Dept.</i>
4. Operations and Maintenance Program	<i>Public Works Manager</i>
4.1. Updated maps of Sanitary Sewer System	<i>Public Works Manager</i>
4.2. Preventive Operation & Maintenance	<i>Public Works Manager</i>
4.3. Training	<i>Public Works Manager</i>
4.4. Equipment Inventory	<i>Public Works Manager</i>
5. Design/Performance	<i>Engineering Dept.</i>
5.1. Updated Design Criteria & Construction Standards	<i>Engineering Dept.</i>
5.2. Procedures and Standards	<i>Engineering Dept.</i>
6. Spill Emergency Response Plan	<i>Public Works Manager</i>
7. Sewer Pipe Blockage Program	<i>Public Works Manager</i>
8. System Eval, Capacity Assurance, Capital Imp.	<i>Engineering Dept.</i>
8.1. System Evaluation and Condition Assessment	<i>Engineering Dept.</i>
8.2. Capacity Assessment and Design Criteria	<i>Engineering Dept.</i>
8.3. Prioritization of Corrective Action	<i>Engineering Dept.</i>
8.4. Capital Improvement Plan	<i>Engineering Dept.</i>
9. Monitoring, Measurement & Program Modifications	<i>Engineering Dept.</i>
10. Internal Audits	<i>Engineering Dept.</i>
11. Communication Program	<i>Engineering Dept.</i>

Table 4 - City Implementation Responsibilities

RESPONSIBLE POSITION CONTACT INFORMATION

Name	Title	Phone	Email
Geraldine Trivedi, P.E.	Civil Engineer	310.697.3195	Geraldine.Trivedi@redondo.org
Saila Potukuchi, P.E.	Civil Engineer	310.697.3201	Saila.Potukuchi@redondo.org
Mario Carranza	Public Works Manager	310.318.0686 ext. 3259	Mario.Carranza@redondo.org

Table 5 – City SSMP Responsible Position Contact Information

2.1. Organizational Chart

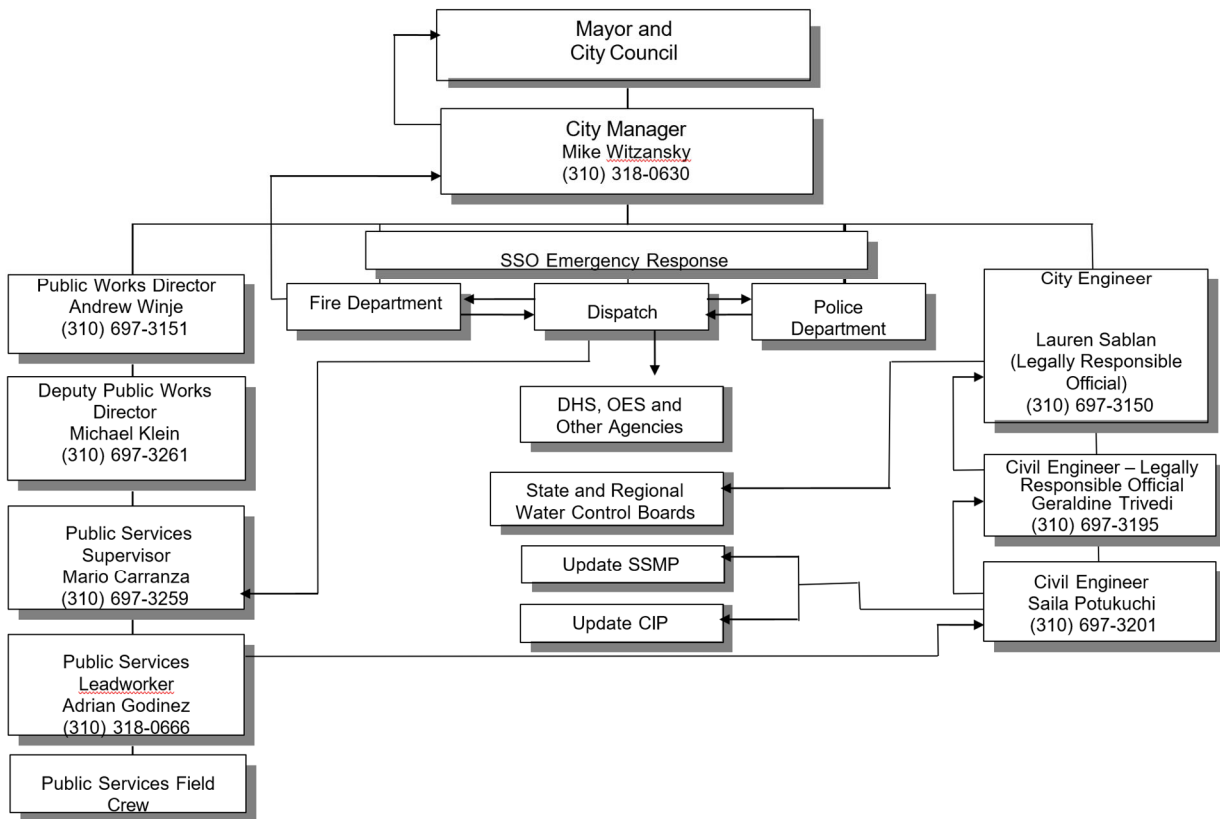


Figure 3 – City Organization Chart

2.2. Chain of Communication for Reporting Spills

CATEGORY 1 REQUIRED NOTIFICATIONS	Phone Number(s)
1. City of Redondo Beach Public Works	(310) 318-0686 (business hours) or (310) 702-0122 (after hour sewer crew on-call)
2. California OES	(800) 852-7550
3. L.A. County Dept of Health Services	(626) 430-5420 or (213) 974-1234
4. L.A. County Dept of Harbor and Beaches (if reaching beach)	(310) 543-1967
5. L.A. County Marine Division (Lifeguard, if reaching beach)	(310) 372-2162
6. California Dept of Fish and Wildlife (if reaching ocean)	(800) OILS-911

CATEGORY 2 REQUIRED NOTIFICATIONS	Phone Number(s)
1. City of Redondo Beach Public Works	(310) 318-0686 (8am-4pm M-F) (310) 702-0122 (after hours sewer crew on-call)
2. California OES	(800) 852-7550
3. L.A. County Dept of Health Services	(626) 430-5420 or (213) 974-1234

CATEGORY 3 AND 4 REQUIRED NOTIFICATIONS	Phone Number(s)
1. City of Redondo Beach Public Works	(310) 318-0686 (business hours) or (310) 702-0122 (after hour sewer crew on-call)

DURING BUSINESS HOURS Monday – Friday 8:00 AM – 4:00 PM:

For calls received (reporting a sewage spill) during business hours between Monday – Friday 8:00 AM – 4:00 PM, CITY dispatch will notify the City’s Public Works Sewer crews at the numbers listed above to initiate the response. If additional support is needed (Fire and/or Police Departments), sewer crews will notify dispatch.

NON-BUSINESS HOURS Monday – Friday 4:00 PM – 8:00 AM, Saturdays & Sundays

For calls received (reporting a sewage spill) during non-business hours between Monday - Friday 4:00 PM – 8:00 AM, Saturdays & Sundays, CITY dispatch will notify the City’s Fire Department.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Have there been any changes requiring updates to the Organizational Chart?
- Have there been instances when a service call for a spill was not properly routed to response personnel?
- Were all spill response activities documented and forwarded to the LRO?
- Have there been any changes in assigned responsibilities for implementing the SSMP?
- Is there a process in place to ensure all contact information remains up to date?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
2.1	Review names, contact information and position responsibilities. Update as necessary.	Semi-Annually		X	X
2.2	Review Chain of Communication outcomes for all spill responses	Each Spill Event		X	X
2.3	Review Organizational Chart for any changes. Update as necessary.	Semi-Annually		X	X

RESILIENCE

Resilience is addressed in Element 2 by:

- Ensuring that more than one person is capable and responsible for specific duties for SSMP implementation, e.g., back-up personnel.
- Designation of more than one LRO to help ensure full and continuous coverage of duties.
- Testing the phone notification system to ensure calls are received and routed to appropriate personnel.

APPENDIX 2 INCLUSIONS:

- None

3. Legal Authority

WDR REQUIREMENTS

[Att. D-3 \(pg. D-4\)](#)

“The Plan 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:

- 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;
- 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;
- Require that sewer system components and connections be properly designed and constructed;
- Ensure access for maintenance, inspection, and/or repairs for portions of the service lateral owned and/or operated by the Enrollee;
- Enforce any violation of its sewer ordinances, service agreements, or other legally binding procedures; and
- Obtain easement accessibility agreements for locations requiring sewer system operations and maintenance, as applicable.

COMPLIANCE

The above items are addressed by the City below in order.

- The City has established authority to prevent illicit discharges into City’s Wastewater Collection System through its existing authority provided under [City Municipal Code, Article 2 \(Prohibitions\)](#).
- The City has established pre-planned collaboration and coordination with storm water assets since the City owns and operates these facilities.
- The City with its Design Standards and Specifications has established requirements requiring all sewer system components and connections are properly designed and constructed with its existing authority provided under [City Municipal Code, Article 3 \(Wastewater Facility/General Requirements\)](#).
- District facilities are located within legal easements for ensuring maintenance. Notices are sent to property owners with easements on their property annually to help facilitate communication and ensure access for maintenance, inspection and repair activities. Article IV, Section 404 requires all public facilities within a public right-of-way or dedicated sewer easement.
- The City does not own or maintain sewer service laterals.
- The City has established legal authority to enforce violations of its sewer ordinances, service agreements, or other legally binding procedures with its existing authority provided under [City Municipal Code, Article 4 \(Enforcement\)](#).
- Notices can be sent to property owners with easements on their property to help facilitate communication and ensure access for maintenance, inspection and repair activities. Article IV, Section 404 requires all public facilities within a public right-of-way or dedicated sewer Portion of City sewer assets are located within easements; however, some notices are periodically sent to property owners

with easements as necessary to help facilitate communication and ensure access for maintenance, inspection and repair activities.

- Obtain easement accessibility agreements for locations requiring sewer system operations and maintenance, as applicable.
- Prior to finalizing this SSMP Update, the City anticipates updating this element to include additional information and details to address all requirements specified in this section above.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Are the City ordinances and standards adequate for fulfilling the SSMP Plan legal requirements?
- Does the City have a process in place for periodic review and evaluation of ordinances?
- Have there been instances when the code or ordinance did not address a need or circumstance?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
3.1	Review Ordinance(s) to confirm all documents provide necessary required legal authority.	Once per 6-year SSMP Update Cycle	X	X	
3.2	Confer with storm drain owners to ensure current practices and contact information are up to date.	Annually		X	
3.3	Monitor and document occasions when Ordinance(s) failed to address issues as intended.	Continuously	X	X	X

RESILIENCE

Resilience is addressed in Element 3 by:

- Keeping abreast of industry trends and local ordinances that may affect operations.

APPENDIX 3 INCLUSIONS:

- None

4. Operation and Maintenance Program

WDR REQUIREMENTS

[Att. D-4 \(pg. D-4\)](#)

“The Plan must include the items listed below that are appropriate and applicable to the Enrollee’s system.”

4.1. Updated Map of Sewer System

WDR REQUIREMENTS

[Att. D-4.1 \(pg. D-4\)](#)

“An 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.”

COMPLIANCE

System maps shall include gravity mains, force mains, manholes, pump stations, property boundaries and addresses, creek locations, and storm drain mapping, and pipe asset information (ID number, diameter, flow direction, segment length, material type, and age).

The City maintains current sewer maps for all City-owned sewers with iWATER and has process in place to update maps. The City can make its sewer maps available to Water Board staff upon request.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Were all map updates completed in a timely manner?
- Are all staff trained in the procedure for providing map update information?
- Are newly installed sewer assets incorporated into the system maps?
- Are there terrain features or assets that should be incorporated in future map updates (e.g. exposed pipe, siphons, ARVs, surface water, etc.)

IMPLEMENTATION PLAN/SCHEDULE

No	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
4.1.1	Review map update procedures with all affected staff.	Annually		X	X
4.1.2	Review/ensure all newly installed facilities have been updated and included in the system maps	Annually		X	X

4.2. Preventive Operation and Maintenance Activities

WDR REQUIREMENTS

[Att. D-4.2 \(pgs. D-4/D-5\)](#)

"A scheduling system and a data collection system for preventive operation and maintenance activities conducted by staff and contractors. The scheduling system must include:

- Inspection and maintenance activities;
- Higher-frequency inspections and maintenance of known problem areas, including areas with tree root problems;
- 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."

COMPLIANCE

The purpose of a work order system is to program and track all required inspection and maintenance activities within the collection system to help proactively prevent blockages/operational problems or spills. The City uses [OPRA](#) for its Computerized Maintenance Management System (CMMS), which allows the City to make informed decisions regarding its assets and infrastructure by using the collected data from field work orders and documented inspections.

The City's CMMS ([OPRA](#)) maintains historical data for all maintenance activities and provides a basis for critical analysis and data-driven planning and decision-making today and into the future. This allows for prioritizing and planning routine activities such as CCTV inspections, pipe cleaning and pump station maintenance activities.

In addition, the CMMS ([OPRA](#)) is used to plan and schedule higher-frequency inspection and maintenance activities such as Hot Spot cleanings (approximately 100 locations) and selective root control activities. Emergency and other reactive activities are documented in work orders as well.

The scheduling system allows staff to put certain activities on a preventive schedule where the CMMS ([OPRA](#)) automatically create work orders on a prescribed interval. Work orders for other activities are generated by supervisory personnel on an as-needed basis.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Are the City's maintenance, operations, engineering work orders periodically audited for accuracy and completeness?
- Does the City monitor "open," "overdue," or "not yet completed" work orders to ensure completion of tasks?
- Are inspection and maintenance activities reducing the number and volume of spills?
- Is maintenance work being completed as scheduled?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
4.2.1	Monitor "Past Due" work orders to ensure critical work is being completed	Quarterly		X	X
4.2.2	Review scheduled PMs to ensure the prescribed schedule remains appropriate.	Annually		X	X

4.3. Training

WDR REQUIREMENTS

Att. D-4.3 (pg. D-5)

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

- *The requirements of this General Order;*
- *The Enrollee’s Spill Emergency Response Plan procedures and practice drills;*
- *Skilled estimation of spill volume for field operators; and*
- *Electronic CIWQS reporting procedures for staff submitting data.”*

COMPLIANCE

The City’s training program covers numerous areas involving or associated with wastewater collection systems and serves to develop and maintain highly qualified, knowledgeable, and capable staff. This training is provided through a variety of modes (self-study, seminars, conferences, on-the-job, etc.) and begins from the first day on the job and continues regularly thereafter.

Staff involved in responding to customer service calls, including sewage spills, receive annual training on the City’s Spill Emergency Response Plan completed by Fischer Compliance LLC. This training is part classroom and part hands-on exercises and drills for responding to spill events and includes containment, restoring flow, spill volume, volume recovered, spill start time estimations, clean up and completing the spill event data collection forms.

The City utilizes Fischer Compliance for providing spill response training and is developing spill response procedures for Contract Service personnel who perform work for the City to:

- Immediately notify the City of any sewage spill they encounter;
- Make attempts to contain the spill;
- Cordon off the area to keep the public safe; and
- Remain onsite until City staff arrives and relieves them.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Has all training been completed as scheduled?
- Have records of training and attendance been documented and maintained?
- Have all staff demonstrated ability and knowledge after each training event?
- Have contractors received, at a minimum, direction for reporting and responding to spills?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
4.3.1	Review training documentation to ensure all staff have received required training	Quarterly		X	X
4.3.2	Review agreements with contractors and/or pre-job meeting minutes to ensure contract personnel have received instruction for responding to sewage spills	Each Contract		X	X

4.4. Equipment Inventory

WDR REQUIREMENTS

[Att. D-4.4 \(pg. D-5\)](#)

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

COMPLIANCE

The City maintains a host of equipment for both routine maintenance and for contingency or emergency operations. The City maintains a spare part inventory and has identified “critical” parts allowing the City to respond and resolve issues in a timely manner. Additional new equipment planned for purchase include the following items:

- New backup pump for Basin 3
- 2 additional new bypass pumps for inventory

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Have inventory lists been audited as scheduled?
- Have any inventory deficiencies or omissions been discovered and rectified?
- Has the City experienced any equipment failure that inhibited a spill response?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
4.4.1	Audit inventory lists to ensure stock is adequate	Annually		X	X
4.4.2	Check with vendors to ensure lead times for critical parts are as expected.	Annually		X	X
4.2.3	Ensure contracts with emergency support services are current	Annually			X

RESILIENCE

Resilience is addressed in Element 4 by:

- Developing an SOP for updating maps when errors are discovered.
- Developing and using forms (paper or electronic) for data collection to help ensure all pertinent information is consistently collected.
- Periodically evaluating inspection cycle intervals to help ensure they are optimized.
- Requiring staff to demonstrate ability and/or knowledge for all training activities.
- Monitoring equipment and critical spare parts usage for and trends.
- Performing periodic audits of the vehicle and equipment inventory List.

APPENDIX 4 INCLUSIONS:

- None

Specifications 5.19 - Operations and Maintenance

WDR REQUIREMENTS

[Specification. 5.19 \(pg. 27\)](#)

“To prevent discharges to the environment, the Enrollee shall maintain in good working order, and operate as designed, any facility or treatment and control system designed to contain sewage and convey it to a treatment plant.”

COMPLIANCE

To comply with these requirements, the City has the established work programs for operating and maintaining its sanitary sewer collection system.

- Gravity Main Cleaning – the target is to clean the entire system every 2 years; the City utilizes Empire Pipe Cleaning and has its internal crews focus on areas of concern for these activities.
- Gravity Main Inspection (CCTV) – the target is to CCTV sections of the conveyance system that have a high risk factor every 5 years.
- Manhole Inspections – completed as part of ongoing outline maintenance activities and expanded as necessary.
- Pump Station Inspections/Maintenance – completed as part of ongoing outline maintenance activities and expanded as necessary.
- Easement Maintenance – completed as part of ongoing outline maintenance activities and expanded as necessary.
- Pipe Repair/Rehabilitation – completed as part of ongoing outline maintenance activities and expanded as necessary (see Element 8 below for more details).
- Root Control – completed as part of ongoing outline maintenance activities and expanded as necessary.

5. Design and Performance Provisions

5.1. Updated Design Criteria/Construction Standards/Specifications

WDR REQUIREMENTS

[Attachment D-5.1 \(pg. D-5\)](#)

“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) of this Attachment, the procedures must include component-specific evaluation of the design criteria.”

COMPLIANCE

[City Standard Plans and Details](#) available online addresses design criteria sewers.

The City also relies on [GREENBOOK standards](#) for enhancing its available design criteria for sewers.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Are plan checking QA/QC processes helping to ensure adherence to the standards?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
5.1.1	Ensure all project plans are approved in accordance with the City’s Standard Specifications and Details.	Each Project		X	
5.1.2	Verify design standards and hydraulic model previously completed are adequate and consistent with current standards of practice.	2027		X	X

Prior to finalizing this SSMP Update, the City anticipates updating this section to include additional information and details that fully address all specified requirements.

5.2. Procedures and Standards

WDR REQUIREMENTS

[Attachment D-5.2 \(pg. D-5\)](#)

“Procedures, and standards for the inspection and testing of newly constructed, newly installed, repaired, and rehabilitated system pipelines, pumps, and other equipment and appurtenances.”

COMPLIANCE

- Article 3 of the [City’s Municipal Code, \(Wastewater Facility/General Requirements\)](#) is utilized to address these requirements.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Were any design or installation deficiencies found during warranty inspections?
- Are deviations from standard procedures and/or specs, testing, etc., justified and documented?
- Does the City stay abreast of industry design standards and technical advances in the industry?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
5.2.1	Verify inspection procedures are adequate and consistent with current standards of practice	2017 (10-year cycle)			X
5.2.2	Verify design standards and hydraulic model previously completed are adequate and consistent with current standards of practice.	2027 (10-year cycle)		X	X

RESILIENCE

Resilience is addressed in Element 5 by:

- Staying abreast of industry trends and standards.
- Performing warranty inspections of newly installed or repaired assets to evaluate design and installation practices.
- Evaluating as-built changes for trends and areas for design and performance improvements.

APPENDIX 5 INCLUSIONS:

- 5.1. City Pipeline Franchise Application (2011)

6. Spill Emergency Response Plan

WDR REQUIREMENTS

Attachment D-6 (pg. D-6)

“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:

- *Notify primary responders, appropriate local officials, and appropriate regulatory agencies of a spill in a timely manner;*
- *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;*
- *Comply with the notification, monitoring and reporting requirements of this General Order, State law and regulations, and applicable Regional Water Board Orders;*
- *Ensure that appropriate staff and contractors implement the Spill Emergency Response Plan and are appropriately trained;*
- *Address emergency system operations, traffic control and other necessary response activities;*
- *Contain a spill and prevent/minimize discharge to waters of the State or any drainage conveyance system;*
- *Minimize and remediate public health impacts and adverse impacts on beneficial uses of waters of the State;*
- *Remove sewage from the drainage conveyance system;*
- *Clean the spill area and drainage conveyance system in a manner that does not inadvertently impact beneficial uses in the receiving waters;*
- *Implement technologies, practices, equipment, and inter-City coordination to expedite spill containment and recovery;*
- *Implement pre-planned coordination and collaboration with storm drain agencies and other utility agencies/departments prior, during, and after a spill event;*
- *Conduct post-spill assessments of spill response activities;*
- *Document and report spill events as required in this General Order; and*
- *Annually, review and assess effectiveness of the Spill Emergency Response Plan, and update the Plan as needed.”*

COMPLIANCE

The City’s Spill Emergency Response Plan (SERP) is a stand-alone document that contains all the key elements necessary for an appropriate spill response: notification, emergency incident response, reporting, and impact mitigation. The current plan, prepared by Fischer Compliance (see Appendix 6.1) meets the requirements of the WDR, which became effective on June 5, 2023. Initial training has been provided to affected staff and refresher training is conducted annually. A copy of the SERP is available for viewing at the City office upon request.

Add any additional information/procedures/practices the City might implement outside of the SERP.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Have staff’s spill response efforts helped to prevent the discharge of sewage to surface waters?
- Do post-spill assessments indicate staff are following the procedures outlined in the SERP?
- Is SERP training effective and are trainees demonstrating adequate knowledge and abilities?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
6.1	Perform SERP training including practice drills.	Annually		X	X
6.2	Review Post Spill Assessments to ensure adherence with the SERP and to identify any trends that should be addressed.	Annually		X	X

RESILIENCE

Resilience is addressed in Element 6 by:

- Multiple staff are trained to respond to spill events.
- Post-spill assessments are conducted to evaluate staff’s adherence to the SERP and to identify areas for improvement.
- Data collection forms are used to direct staff to collect all the required data to be submitted to CIWQS and are designed as a guide to a proper spill event response.
- The City employees several different spill volume estimation methods to account for different circumstances.

APPENDIX 6 INCLUSIONS:

- 6.1. Spill Emergency Response Plan (SERP)

7. Sewer Pipe Blockage Program

WDR REQUIREMENTS

[Attachment D-7 \(pg. D-7\)](#)

“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:

- *An implementation plan and schedule for a public education and outreach program that promotes proper disposal of pipe-blocking substances;*
- *A plan and schedule for the disposal of pipe-blocking substances 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 substances generated within a sanitary sewer system service area;*
- *The legal authority to prohibit discharges to the system and identify measures to prevent spills and blockages.*
- *Requirements to install grease removal devices (such as traps or interceptors), design standards for the removal devices, maintenance requirements, best management practices requirements, recordkeeping and reporting requirements;*
- *Authority to inspect grease producing facilities, enforcement authorities, and whether the Enrollee has sufficient staff to inspect and enforce the fats, oils, and grease ordinance;*
- *An identification of sanitary sewer system sections subject to fats, oils, and grease blockages and establishment of a cleaning 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.”*

COMPLIANCE

In many sanitary sewer collection systems, Fats, Oils, and Grease (FOG) is known to be a significant cause, and or contributor, of sewer blockages in pipe and the cause of operational disruptions and damage to sewage pump stations. Although service areas that include commercial and institutional food service establishments (FSEs) are obvious sources of FOG, residential communities, especially those of medium and high-density multi-family residences, can also be a significant source of FOG. It is the purpose of the FOG Control Program to ensure all customers in our service area are following the City Ordinance, and state and federal requirements, to prevent sewage overflows caused by FOG related blockages in our sewer collection system.

The City complies with the above requirements through the following measures:

- **Public Outreach:** Public education is implemented for this effort primarily through restaurant inspections. The City inspects approximately 300 food service establishments (FSEs) twice per year to conduct education, determine compliance with the code, and take any necessary enforcement actions to gain compliance. Additional public outreach takes place throughout the year which includes presentations to various local committee and/or working groups, public presentations to City Council

& the Public Works Commission, information included on the City's web site, and various distributed brochures posters and handouts.

- Pipe Blocking Substances: The City is working with the State of California in achieving hauler compliance with the "Licensed waste haulers" requirement (registered to do so by the State in accordance with California Code of Regulations, Title 23, Waters, Chapter 3, and Subchapter 1). The City also utilizes the California Fats Oils and Grease Workgroups Grease Hauling and Rendering Companies List for acceptable disposal and hauling providers of FOG generated within its service area. Further, the City disposes routine wastes accumulated from maintenance activities at its corporation yard.
- Legal Authority: The City through its [City Municipal Code, Article 5 \(Prohibitions\)](#), includes provisions and provides the legal authority to implement a FOG Control Program including prohibition of certain discharges and measures to prevent spills.
- Grease Control Devices: The City Municipal Code, Title 5, Article 3, 5.4305, Wastewater Facility/General Requirements) provides the City with authority to require grease control devices.
- Inspections: The current Municipal Code Title 5, Chapter 4 Wastewater System (5-403.5) includes a requirement for semi-annual on-site inspections. The revised code will maintain this requirement. The Clean Bay Restaurant Certification Program also includes inspections of Food Service Establishments (FSE) for minimum compliance with FOG and water quality regulations.
- Portions of Sewers Subject to FOG: The City maintains an "Areas of Interest" list and map which includes Hot Spot cleaning program (approximately 100 locations) including sections subject to FOG build-up and blockages. The "Areas of Interest" or Hot Spots are scheduled for more frequent cleanings and monitoring which occur two to four times per year.
- Source Control Measures: In 2002 the City Council modified its wastewater regulations to require that the City Engineer conduct semi-annual inspections of Food Service Establishments (FSEs) to ensure that the required grease removal device installations are being properly maintained. In 2006, following the adoption of the State Water Board's Order, the City reviewed the existing FOG Control Program and begun the process of establishing a FOG inspection fee in order to enhance the existing program. The City Council approved FOG Control Ordinance No. 2999-07 on April 17, 2007, to establish a fee that would apply to FSEs that generate FOG. The fee is used to pay for the inspections and administration of the FOG Control program for the FSE inspections. The City also inspects approximately 300 food service establishments (FSEs) twice per year to conduct education, determine compliance with the code, and take any necessary enforcement actions to gain compliance. One additional source control measure includes the Clean Bay Restaurant Certification Program, which improves FOG Control awareness and improves facility compliance.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Have there been any blockages/spills from any identified problem area?
- Is the City receiving feedback on public outreach efforts?
- Are the debris and other sewage solids collected during cleaning activities being disposed of appropriately?
- Have there been spills due to excessive fats, oil, grease, roots, or non-disposable wipes discovered in the sewer system during the audit period?
- Are there repeat offenders among FSEs?
- Are enforcement trends decreasing?
- Are Source Control and Collection staff included in the plan check process?

IMPLEMENTATION PLAN/SCHEDULE

No	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
7.1	Review/evaluate enforcement and inspection findings and implement changes as necessary.	Annually		X	X
7.2	Review spill rates and causes and make changes to maintenance programs, as necessary.	Annually		X	X

RESILIENCE

Resilience is addressed in Element 7 by:

- Inspection of select assets directly downstream of grease producing businesses to ensure source control is effective.
- Residential FOG outreach and education program.
- Performance of regular assessments of system assets to monitor performance.
- QA/QA process for evaluating pipe cleaning effectiveness.
- Daily disposal of pipe blocking materials retrieved during maintenance activities.

APPENDIX 7 INCLUSIONS:

- None

8. System Evaluation, Capacity Assurance, Capital Improvements

WDR REQUIREMENTS

[Attachment D-8 \(pg. D-\)](#)

“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.”

8.1. System Evaluation and Condition Assessment

WDR REQUIREMENTS

[Attachment D-8.1 \(pgs. D-7/D-8\)](#)

“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 method;.
- 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.”

COMPLIANCE

The system evaluation, condition assessment, capacity assurance, and CIP components contained in this Interim SSMP are preliminary and will be supplemented and refined through the City's comprehensive sewer system evaluation and technical planning program starting in 2026.

The City addresses the above requirements as outlined below. Further, prior to finalizing this SSMP, the City anticipates updating this element to include additional information and details to address all requirements specified in this section above.

- The assessment of a collection system involves every component of the City collection system, including pipelines, manholes, and pump stations. The assessment of pipeline condition is the most significant condition assessment responsibility the City has. It is of key importance to regularly perform pipeline condition assessments to initially establish a condition baseline and to monitor condition changes over time. The City utilizes various technologies, practices, strategies for these assessments to maintain the sewer system such as the use of 47 individual sewer [Smart Covers](#) and closed-circuit television (CCTV) equipment.
- The City's justification for their condition assessment schedules/intervals is provided by inspection history (how many times has the system been inspected), (2) pipe performance (number of blockages or spills), (3) maintenance intervals (how often are the lines cleaned between inspections), and (4) Repair and rehabilitation programs (defects being rectified).
- The City prioritizes condition assessment activities using a risk-based approach that considers: (1) pipeline CCTV defect coding per NASSCO PACP standards (structural and O&M defect grades), (2) CIP project prioritization based on hydraulic deficiency, structural condition, SSO risk, and consequence of failure, and (3) sewer asset risk ranking incorporating pipe age, material, diameter, maintenance history, and proximity to sensitive receiving waters..
- The City assesses system conditions using a combination of methods including: (1) CCTV video inspection of gravity mains using NASSCO PACP coding, (2) visual manhole inspections, (3) SmartCover sensor monitoring at 47 locations for real-time level and flow data, and (4) pump station SCADA monitoring..
- The City uses CCTV inspection findings, SmartCover level data, maintenance records, and spill history to identify system conditions (such as significant structural defects, root intrusion, or capacity constraints) that may contribute to sewage exfiltration that could reasonably be expected to reach a water of the State. High-priority defects are escalated to the CIP for corrective action..
- The City maintains inspection and condition assessment records electronically using iWater CMMS and GIS. Records include CCTV inspection reports, PACP-coded defect data, manhole inspection logs, pump station maintenance records, and SmartCover event logs. CCTV video files and condition data are stored and linked to the City's GIS asset inventory. The City has initiated a process to identify its assets vulnerable to direct and indirect impacts of climate change, including but not limited to: (a) sea level rise, (b) flooding and/or erosion due to increased storm volumes, frequency, and/or intensity; (c) wildfires; and (d) increased power disruptions. This includes a committed to providing a more livable, equitable, and economically vibrant community and sub-region. As a part of this effort, the City of Redondo Beach, in cooperation with the South Bay Cities Council of Governments, has developed a [Climate Action Plan \(CAP\)](#) to reduce Greenhouse Gas (GHG) emissions within the city. The City's CAP serves as a guide for action by setting GHG emission reduction goals and establishing strategies and policies to achieve desired outcomes over the next 20 years.
- Prior to finalizing this SSMP, the City anticipates updating this element to include additional information and details to address all requirements specified in this section above.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Has the City maintained its schedule for (information needed) and is data being reviewed in a timely manner?
 - o CCTV Gravity Mains
 - o Laterals
 - o Manholes
 - o Pump Stations
- Are inspection efforts discovering deficiencies in a timely manner?
- Are maintenance and inspection activities being properly documented?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
8.1.1	Review/evaluate enforcement and inspection findings and implement changes as necessary.	Annually		X	X
8.1.2	Review spill rates and causes and make changes to maintenance programs, as necessary.	Annually		X	X
8.1.3	Hold meeting to discuss any issues that may result from climate changes.	Annually	X	X	X

8.2. Capacity Assessment and Design Criteria

WDR REQUIREMENTS

[Attachment D-8.2 \(pgs. D-8/D-9\)](#)

“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.”*

COMPLIANCE

A capacity evaluation of the sewer system was conducted in 1994 during the preparation of the City's latest Wastewater System Master Plan. All sewer pump stations were evaluated on a case-by-case basis, using the flow information from the hydraulic model. The City is currently (2026) updating the SSMP

A hydraulic model was developed for the following system elements:

- All collection lines greater than 8-inches in diameter
 - Sewers observed to have operational problems
 - Sewers projected to be over capacity by the City's previous wastewater planning reports
 - Sewers that serve large tributary areas
 - Sewers with a slope of 0.004 or less that serve 300 or more residential units
-
- Prior to finalizing this SSMP Update, the City anticipates updating this element to include additional information and details to address all requirements specified in this section above.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Number of capacity-related spills or surcharge condition during the audit period.
- Has the system responded to rain events as indicated by the hydraulic model?
- Has there been any changes to zoning designations (residential, commercial, industrial)?

IMPLEMENTATION PLAN/SCHEDULE

No	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
8.2.1	Monitor/evaluate significant rain events to see if they exceed the design storm in the hydraulic model.	Each significant rain event		X	X
8.2.2	Identify and monitor flood-prone areas susceptible to erosion from rain events	After each significant rain event		X	X
8.2.3	Monitor flows in each basin and update the hydraulic model	Per Engineering Department schedule			X

8.3. Prioritization of Corrective Action

WDR REQUIREMENTS

[Attachment D-8.3 \(pg. D-9\)](#)

“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.”

COMPLIANCE

The City is currently updating its Wastewater System Master Plan. The scope of work includes the development of a hydraulic model of the entire wastewater system. Capacity evaluation of the collection system as well as the pump stations will be conducted.

- The 1994 Wastewater System Master Plan established the City’s current wastewater criteria. The criteria will be reevaluated as a part of the update to the Wastewater System Master Plan.
- The 1994 Wastewater System Master Plan identified the portions of the wastewater system with hydraulic deficiencies. Capital Improvement Project recommendations were formulated and prioritized. The total priority pump station and collection system capacity related project costs were estimated at \$7,020,000 (January 1994 dollars). The update of the Wastewater System Master Plan will include the development of a comprehensive Capital Improvement Program that will include projects to address any capacity related system deficiencies. Project costs will be developed.
- The City funds sewer related activities through its Wastewater Enterprise Fund. In 2003, the City approved Ordinance No. 2924-03 that established a Wastewater Sewer User Fee based on a Wastewater Rate and Financial Plan Study report. In 2004, the City issued revenue bonds totaling \$10,335,000 which included a rate covenant that requires, in any Fiscal Year, the Wastewater Enterprise to produce Rate-Based Net Revenues equal to at least 1.20 times the Installment Payments coming due and payable during such Fiscal Year. In 2008, the City approved Ordinance 3018-08 that raised the Wastewater Sewer User fees to its current levels. The new fees help to fully support the completion of sewer collection system rehabilitation projects, the operation and maintenance of the system, meet bond rate covenant requirements, and comply with regulatory requirements. The established fees also include an annual increase to account for inflation.
- The update to the Wastewater System Master Plan will include a schedule for implementing the developed Capital Improvement Program project recommendations. Additional ongoing details of projects and funding are [available online](#) (see Element 8.4 below for more details).
- Prior to finalizing this SSMP, the City anticipates updating this element to include additional information and details to address all requirements specified in this section above.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Has the City adhered to its system evaluation/condition assessment schedule?
- Has the City adhered to its prioritization/corrective procedures for sewer repair and capacity improvement projects?
- Have projects been completed before deficiencies caused failures?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
8.3.1	Utilize all available data for prioritizing corrective actions considering severity and consequences of potential spills.	Each CIP Update		X	X
8.3.2	Maintain documents and recordkeeping of system evaluation and condition assessment inspections and activities.	Continuously		X	X

8.4. Capital Improvement Plan

WDR REQUIREMENTS

Attachment D-8.4 (pg. D-9)

“The capital improvement plan must include the following items:

- *Project schedules include 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 InterCity coordination with other impacted utility agencies.”*

COMPLIANCE

The [City of Redondo Beach Budget and Capital Improvement Program \(CIP\)](#) online website provides detailed information including historical projects and funding for all City assets including sewers. For added transparency, the City has posted its [2025-2030 Capital Improvement Program](#) on its website.

City engineering and operations routinely meet to coordinate on projects to ensure input from all parties.

The City is currently updating its Wastewater System Master Plan, which includes the development of a hydraulic model for the entire wastewater system. As part of this effort, the City will conduct a capacity evaluation of both the collection system and the pump stations. Prior to finalizing this SSMP, the City anticipates updating the future Capital Improvement Plan (CIP) to incorporate additional information and details to fully address the requirements specified in this section.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Has the City’s capital improvement plan schedule been adhered to?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Engr	Mgr
8.4.1	Hold regular coordination meetings, with all parties, to help keep the projects on track and resolve issues that may arise in a timely manner.	Annually		X	X
8.4.2	For schedules that are not followed, justify and document the reason.	Each Delayed Project			X

RESILIENCE

Resilience is addressed in Element 7 by:

- Is there an annual review of the Capital Improvement Plan by all appropriate individuals including both Engineering and Operations?

APPENDIX 8 INCLUSIONS

- 8.1 2025-2030 Budget and Capital improvement Program (CIP)
- 8.2. Sewer Project 23-5656 - Administrative Report

9. Monitoring, Measurement, and Program Modifications

WDR REQUIREMENTS

[Attachment D-9 \(pg. D-9\)](#)

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

- *Maintaining relevant information, including audit findings, to establish and prioritize appropriate Plan activities;*
- *Monitoring the implementation and measuring the effectiveness of each Plan element;*
- *Assessing the success of the preventive operation and maintenance activities;*
- *Updating Plan procedures and activities, as appropriate, based on results of monitoring and performance evaluations; and*
- *Identifying and illustrating spill trends, including spill frequency, locations, and estimated volumes.”*

COMPLIANCE

The above requirements are addressed below. Further, prior to finalizing this SSMP Update, the City anticipates updating this element to include additional information and details to address all requirements specified in this section above.

- The City maintains accurate and relevant inspection and maintenance records for the collection system. Much of the documentation today is maintained electronically, which allows for ease of access and analysis. This helps City staff to make sound decisions and prioritize activities when dealing with the routine and the unexpected.
- Monitoring of the City’s SSMP focuses on each element in terms of its implementation and effectiveness. The SSMP has been designed to include key performance indicators for each element, which are used to measure effectiveness. In addition, implementation responsibilities are included for each element to help ensure the SSMP is being implemented as intended.
- The City assesses the success of maintenance and operation activities by ensuring activities are being performed as expected, by monitoring actual outcomes compared to intended outcomes, as well as monitoring spill trends.
- The City is committed to continuous improvement and monitors and evaluates performance of work programs and SSMP elements to ensure intended outcomes are achieved while looking for areas for improvement. Although the SWRCB requires that the SSMP be updated every six years, the SSMP should be considered as a dynamic document and may require updating on a more frequent basis. Routine changes to administrative information, notwithstanding, minor changes will likely be required to address improvements identified through the SSMP Audit or through modifications required as conditions change.
- The City monitors spill trends, at a minimum every three years during required audits, utilizing the CMMS database, inspection records and CIWQS data. These resources are helpful in planning and programming work, and adjusting as needed, enabling the City to be adaptive and capitalize on lessons learned.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Are SSMP Elements being periodically evaluated for effectiveness?
- Are work activities and spill events being documented?
- Has a plan and schedule been established to address audit findings/deficiencies from the last audit?
- Is Trend Analysis being performed on spill causes?
- Have work programs been assessed and updated as necessary?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
9.1	Assess work programs to ensure outcomes are as intended.	Annually		X	X
9.2	Prepare updates to work programs and the SSMP based on assessments.	As Needed		X	X
9.3	Monitor and evaluate spill trends. Document efforts.	Annually		X	X

RESILIENCE

Resilience is addressed in Element 9 by:

- Development of key performance indicators to measure effectiveness of the SSMP.
- Performing periodic reviews of the SSMP to help ensure it is being properly implemented.
- Developing and adhering to a timeline to correct deficiencies found during the audit process.
- Periodically evaluating work programs to help ensure effectiveness.

APPENDIX 9 INCLUSIONS:

- None

10. Internal Audits

WDR REQUIREMENTS

[Attachment D-10 \(pg. D-10\)](#)

“The Plan shall include internal audit procedures, appropriate to the size and performance of the system, for the Enrollee to comply with section 5.4 (Sewer System Management Plan Audits) of this General Order.”

COMPLIANCE

The City completed its last audit in January 2025 (see Appendix 10.1) and will complete audits every three (3) years moving forward. The objective of the audit is to evaluate compliance, implementation and effectiveness of the SSMP. Additionally, the SSMP includes a description of how the City will comply with the requirements of each Element. The audit review includes an evaluation to determine if compliance has been met.

Implementation is evaluated by determining if the City is executing the SSMP as stated.

Effectiveness is evaluated by using key performance indicators, which have been developed specifically for each element.

An additional evaluation is performed to comply with Specifications 5.6 addressing resilience.

Resilience is addressed for each Element and is built-in to the Agencies collection systems procedures and practices.

Any deficiencies discovered through the audit process are noted and a plan and schedule to implement corrective measures are established.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Have audits been performed as required?
- Have the audits assessed compliance, implementation, and effectiveness?
- Have deficiencies been identified?
- Has a plan and schedule to rectify the deficiencies been established?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	ENG	MGR
10.1	Schedule audits in advance of due dates to ensure adequate time to complete. City has 6 months to complete the audit from the end of the audit period.	Beginning at end of audit period		X	X
10.2	Ensure a plan and schedule is developed to address deficiencies.	Once the Audit is completed		X	X

RESILIENCE

Resilience is addressed in Element 10 by:

- Periodically evaluating key performance indicators during the audit period to assess effectiveness and make corrections, if necessary, prior to the audit.
- Evaluating previous audits to ensure deficiencies have been rectified.
- Scheduling the audit due dates and completing the audit on time.

APPENDIX 10 INCLUSIONS:

- 10.1. 2021-2024 SSMP Audit

11. Communication Program

WDR REQUIREMENTS

[Attachment D-11 \(pg. D-10\)](#)

“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.”*

COMPLIANCE

- When the City experiences a spill, it is standard procedure to secure the affected area and keep the public away. This is generally done using barricades, cones and caution tape. Should the City experience a spill that may require closure of public areas or enter a source drinking of water, signs will be immediately placed indicating the issue and providing contact information. Staff will remain on site to provide an additional safety factor until appropriate authorities respond and direct otherwise. In all cases, the City will follow the advice of higher authorities, such as the local environmental health department and other regulatory authorities.
- There are several opportunities for stakeholders and the public to participate and provide input into the development and update of the City SSMP. During its initial development stage, as with each SSMP Audit and update of the SSMP, the SSMP and related documents are presented to the City Council for review and acceptance. As previously noted, SSMP Audits are now performed every three years and re-certification and acceptance of updated SSMPs is now required every six years. In addition to the extensive initial development process, re-certifications of the SSMP that have been presented to the Council on 8/2/2022.
- Prior to each Council Meeting, these documents are included in Council Agenda packet which are readily available for review on the City’s website. The SSMP is posted on the City’s website, which provides the public several ways to contact the City, via the “Contact Us” feature.
- The SSMP is also available for public viewing on the City’s website or by appointment at the City office.
- The City does not currently have satellite systems.
- Prior to finalizing this SSMP Update, the City anticipates updating this element to include additional information and details to address all requirements specified in this section above.

EFFECTIVENESS

The City utilizes the following Key Performance Indicators for measuring effectiveness of this Element:

- Does the City place all SSMP action items on the agenda for regular counsel meetings?
- Does the City have signage, or other means, readily available to notify the public of environmental or public risk factors related to a sewage spill?
- Does the City perform outreach to residential customers?

IMPLEMENTATION PLAN/SCHEDULE

No.	Plan	Schedule	Responsible Party		
			CC	Eng	Mgr
11.1	Ensure the City Council approves the SSMP per schedule.	Every 6 years		X	X
11.2	Ensure the SSMP is posted on the City website and the link functions properly.	Annually		X	X
11.3	Ensure Sewage Spill Warning signs are readily available to communicate with the public when necessary	Annually			X

RESILIENCE

Resilience is addressed in Element 11 by:

- Use the SSMP as a tool to communicate to the public how the City is managing the system.
- Maintain a consistent presence in the service area by attending community events or issuing periodic newsletters or other communications to the public.
- Make it clear and easy for the public to contact the City.

APPENDIX 11 INCLUSIONS

- None

LIST OF APPENDICIES (not included herein)

APPENDIX 1	<ul style="list-style-type: none">• 1.1. 2022 City Council Resolution for Adoption of Updated 2022 SSMP
APPENDIX 2	<ul style="list-style-type: none">• None
APPENDIX 3	<ul style="list-style-type: none">• None
APPENDIX 4	<ul style="list-style-type: none">• None
APPENDIX 5	<ul style="list-style-type: none">•
APPENDIX 6	<ul style="list-style-type: none">• 6.1 Spill Emergency Response Plan (SERP)
APPENDIX 7	<ul style="list-style-type: none">• None
APPENDIX 8	<ul style="list-style-type: none">• 8.1 2025-2030 Budget and Capital improvement Program (CIP)• 8.2. Sewer Project 23-5656 - Administrative Report
APPENDIX 9	<ul style="list-style-type: none">• None
APPENDIX 10	<ul style="list-style-type: none">• None
APPENDIX 11	<ul style="list-style-type: none">• None
APPENDIX 12	<ul style="list-style-type: none">• None